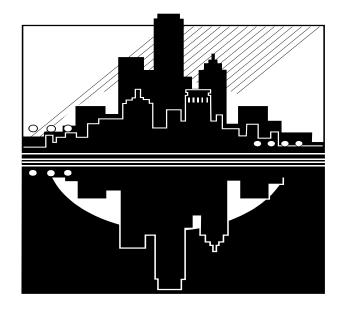
# CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM (CPES)

# **Implementing Guidelines For Infrastructure Projects**



Amended Guidelines as Approved by NEDA InfraCom
Pursuant to the IRR of RA 9184

20 November 2014



# CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM (CPES) Implementing Guidelines for Infrastructure Projects as amended on 13 September 2011

	TABLE OF CONTENTS
Fore	eword
Ackr	nowledgment
IRR	of RA 9184 Provision on Evaluation of Contractors Performance
NED	OA Approval & CIAP Board Resolution
Salie	ent Features of the CPES Implementing Guidelines
CPE	S Implementing Guidelines
1.	General
2.	Objectives
3.	Scope
4.	Definition of Terms
5.	Functional/Deployment Flowchart
6.	Aspects of Evaluation
7.	Criteria for Evaluation
8.	CPES Implementing Unit
9.	Constructors Performance Evaluator/s (CPE)
10.	Documents Required for Evaluation
11.	CPES Evaluation Forms
12.	Information Utilization and Data Banking
13.	Applicability
14.	Effectivity
15.	List of Acronyms .
16.	List of Annexes
	Annex 1 - CPES Functional/Deployment Flowchart
	Annex 2 - Checklists for Workmanship
	A. Road and Bridge Projects  B. Housing and Building Projects  C. Port and Harbor Projects  D. Irrigation Projects

	E. Flood Control Projects	2E-1 2F-1 2G-1 2H-1 2I-1 2J-1
Annex 3	- Checklist for Materials	3-1
Annex 4	- Checklist for Time	4-1
Annex 5	- Checklist for Facilities	5-1
Annex 6	- Checklist for Environmental, Safety and Health (ESH)	6-1
Annex 7	- Checklist for Resources Deployment	7-1
Annex 8	- CPES Evaluation Form	8-1
Annex 9	- Corrective Action Request (CAR) Form	9-1
Annex 10	- Constructors Performance Summary Report	10-1
Annex 11	- Schedule of Minimum Test Requirements Governing Items of Work of the DPWH Standard Specifications for Highways, Bridges and Airports, 1995 (Vol. II)	11-1
	Schedule of Minimum Test Requirements Governing Items of Work of the DPWH Standard Specifications for Highways, Bridges and Airports Using Test Requirements as Practiced by the National Transmission Corporation (TRANSCO)	11B-1
Annex 12 -	List of Philippine National Standards (Construction	12_1

#### **FOREWORD**

The original integrated Constructors Performance Evaluation System (CPES) Implementing Guidelines covering Roads, Bridges, Housings, Buildings, Ports and Harbors Projects was approved by National Economic and Development Authority (NEDA) Board's Committee on Infrastructure (INFRACOM) on 30 January 1998. The first and second set of amendments to the same guidelines was approved by the NEDA INFRACOM on 19 May 2005 and 27 August 2008, respectively. To cover all types of construction projects, the title of the guidelines was changed to CPES Implementing Guidelines for Infrastructure Projects.

Since 1999 up to present, various government agencies, among others, Department of Public Works and Highways (DPWH); Department of Transportation and Communications (DOTC); Department of Science and Technology (DOST); Department of Health (DOH), Department of Education (DepEd), Philippine Ports Authority (PPA), Philippine Tourism Authority (PTA); National Housing Authority (NHA); National Irrigation Administration (NIA); Pasig River Rehabilitation Commission (PRRC); Bases Conversion Development Authority (BCDA); Department of Trade and Industry (DTI); Government Service Insurance System (GSIS), Development Bank of the Philippines (DBP), Polytechnic University of the Philippines (PUP), University of the Philippines (UP), and Local Government of Guimaras, have been implementing CPES in their infrastructure projects.

To further improve the guidelines, the CPES Inter-Agency Committee (IAC) composed of representatives from the DPWH, DOTC, DOST, DepEd, NHA, NIA, BCDA, DBP, U.P., PUP, and PDCB formulated the 3<sup>rd</sup> set of amendments to the guidelines.

The 3<sup>rd</sup> set of amendments to the CPES Implementing Guidelines was prepared by the CPES-IAC and the PDCB during its 45<sup>th</sup> Regular Meeting held on 22 February 2011 under PDCB Resolution No. 03, Series of 2011, endorsed the same to the CIAP Board.

The CIAP Board, in its 59<sup>th</sup> Regular Board Meeting on 25 March 2011, resolved to endorse the proposed amendments to the CPES Implementing Guidelines under CIAP Board Resolution No. 10, Series of 2011, to the NEDA INFRACOM.

The NEDA-INFRACOM, during its meeting on 13 September 2011, approved the 3<sup>rd</sup> set of amendments to the CPES Implementing Guidelines for Infrastructure Projects.

The revised guidelines is intended to contribute in ensuring the quality and timely delivery of infrastructure projects in the country particularly government projects and improve performance of contractors.

September 2011

#### ACKNOWLEDGMENT

The Philippine Domestic Construction Board (PDCB) of the Construction Industry Authority of the Philippines (CIAP) acknowledges with thanks the heads of the CPES Implementing Units (CPES-IU) of the following government agencies for their invaluable support in the formulation of the 3<sup>rd</sup> Revised CPES Implementing Guidelines for Infrastructure Projects:

Engr. Walter R. Ocampo	Department of Public Works and Highways
Engr. Wilfredo C. Borbor	Department of Transportation & Communications
Engr. Arnaldo C. Reyes	Department of Science and Technology
Atty. Elvira V. Estanislao	Bases Conversion Development Authority
Engr. Ma. Otelia F. Eclavea	National Housing Authority
Engr. Robert C. Suguitan	National Irrigation Administration
Engr. Oliver R. Hernandez	Department of Education
Engr. Clarito A. Magsino	Development Bank of the Philippines
Mr. Ariel S. Betan	University of the Philippines
Dr. Rolando C. Viray	Polytechnic University of the Philippines

CIAP-PDCB also recognizes the patience, diligence and selfless dedication of the following members of the CPES Inter-Agency Committee (IAC) which made this task possible:

Department of Public Works and Highways			
Engr. Melrose I. Pailma	Engr. Medmier G. Malig		
Engr. Aristarco M. Doroy	Engr. Mathias L. Malenab		
Department of Transportation and Communications			
Engr. Wilfredo C. Borbor			
Department of S	Science and Technology		
Engr. Arnaldo C. Reyes	Engr. Roberto P. Peredo		
Engr. Willy F. Evangelista			
Bases Conversion	n Development Authority		
Engr. Arnel V. Fortunado			
National Housing Authority			
Engr. Ma. Otelia F. Eclavea			
National Irrigation Administration			
Engr. Robert C. Suguitan	Engr. Teresita Pantalla		
Department of Education			
Arch. Harold V. Dime			
Development Bank of the Philippines			
Engr. Clarito A. Magsino			
	of the Philippines		
Arch. Allen R. Buenaventura			
Polytechnic University of the Philippines			
Engr. Angela L. Israel			
Construction Industry Authority of the Philippines			
Philippine Domestic Construction Board			
Engr. Sonia T. Valdeavilla	Engr. Leilani d.L. del Prado		
Ms. Marita M. Relampagos	Mr. Jose M. Canuto, Jr.		
Ms. Nenita F. Jaucian	Engr. Jake M. Velasco		

# EVALUATION OF CONTRACTORS PERFORMANCE Section 12, Annex E of the Revised Implementing Rules and Regulations (IRR) of Republic Act No. 9184

#### 1. SUBJECT AND SCOPE

All procuring entities implementing government infrastructure projects are mandated to evaluate the performance of their contractors using the NEDA-Approved Constructors Performance Evaluation System (CPES) Guidelines for the type of project being implemented. These guidelines cover all infrastructure projects awarded by the government regardless of contract amount and funding source. CPES evaluation shall be done during construction and upon completion of each government project. To ensure continuous implementation of CPES, all procuring entities concerned are required to include in their Projects' Engineering and Administrative Overhead Cost the budget for the implementation of CPES pursuant to NEDA Board Resolution No. 18 (s. 2002).

#### 2. EVALUATION GUIDELINES

For project types which do not have specific CPES Guidelines, the procuring entities concerned may formulate and adopt their own implementing Guidelines specific to their needs provided the NEDA-INFRACOM poses no objections to their adoption, and provided further that said Guidelines are made known to all prospective bidders.

#### 3. IMPLEMENTATION MECHANISM FOR CPES

All procuring entities implementing infrastructure projects are required to establish CPES Implementing Units (IUs) in their respective offices/agencies/corporations. The CPES Implementing Units shall be responsible for the implementation of the CPES Implementing guidelines, including, but not limited to, the supervision of Constructors Performance Evaluators (CPEs) to be accredited by the Construction Industry Authority of the Philippines (CIAP). The procuring entity's CPES IU shall be responsible for the following: a) pre-screening of applications of CPEs, b) funding for CPEs accreditation training and seminars; and c) yearly evaluation of CPEs.

#### 4. SUBMISSION AND DISSEMINATION OF EVALUATION RESULTS

All procuring entities implementing CPES shall submit the results of their performance evaluation to the CIAP on a monthly basis or as often as necessary. The procuring entity's CPES-IU shall likewise develop and maintain a databank and disseminate the CPES reports to the concerned units/departments within the procuring entity and to other interested users.

#### 5. UTILIZATION OF EVALUATION RESULTS

The CIAP shall consolidate all of the CPES evaluation results received and shall disseminate the same to all procuring entities concerned. The CPES rating and other information shall be used by the concerned government agencies for the following purposes: a) pre-qualification/eligibility screening of constructors; b) awarding of contracts; c) project monitoring and control; d) issuance of Certificate of Completion; e) policy formulation/review; f) industry planning; g) granting of Incentives/Awards, and, in adopting measure to further improve performance of contractors in the prosecution of government projects.



# Republic of the Philippines NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY

NEDA sa Pasig, 12 Saint Josemaria Escriva Drive, Ortigas Center, Pasig City 1605
P.O. Box 419, Greenhills Tels. 631-0945 to 64
http://www.neda.gov.ph

#### NEDA BOARD COMMITTEE ON INFRASTRUCTURE (INFRACOM)

Resolution No. 3, Series of 2011

# A RESOLUTION APPROVING THE PROPOSED AMENDMENTS TO THE CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM (CPES) IMPLEMENTING GUIDELINES FOR INFRASTRUCTURE PROJECTS

WHEREAS, Section 12 of Annex E of the Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, otherwise known as the Government Procurement Reform Act (GPRA), mandates all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-Approved CPES Guidelines for the type of project being implemented;

WHEREAS, The CPES Guidelines cover all infrastructure projects awarded by the government regardless of contract amount and funding source;

WHEREAS. In order to ensure continuous implementation of CPES, NEDA Board Resolution No. 18, Series of 2002 (dated 10 December 2002) was issued requiring all procuring entities concerned to include in their Projects' Engineering and Administrative Overhead Cost the budget for the implementation of CPES;

WHEREAS, In order to streamline the implementation and to broaden the coverage on the type of infrastructure projects being implemented by procuring entities, the CPES Guidelines were revised on two (2) occasions, 19 May 2005 and 27 August 2008;

WHEREAS, There is a need to amend the existing CPES Guidelines to be consistent with the Revised IRR of RA No. 9184, which took effect on 02 September 2009, to include a new checklist and workmanship for mooring facilities for power barges and diesel power plants developed by the National Power Corporation (NPC), and to further enhance the effectiveness of the CPES in ensuring the quality of infrastructure projects of the government;

WHEREAS, The proposed amendments to the CPES Guidelines was formulated by the Philippine Domestic Construction Board (PDCB) and consequently endorsed by the Construction Industry Authority of the Philippines (CIAP) Board per its Resolution No. 10, Series of 2011 (dated 25 March 2011) to the INFRACOM for approval pursuant to Section 12 of Annex E of the Revised IRR of RA No. 9184;

WHEREAS, The proposed amendments to the CPES Guidelines were presented by the CIAP and PDCB to the INFRACOM in its Joint Cabinet Committee and Technical Board Meeting on 13 September 2011;

WHEREAS, The INFRACOM, during the said meeting, posed no objections to proposed amendments to the CPES Guidelines except on the proposed amendments concerning the issuance of the certificate of completion (Section 12.5) and the blacklisting of constructors (Section 12.7);

CERTIFIED TRUE COPY

WHEREAS, the recommended revisions of the INFRACOM on the above-mentioned Sections have been considered and incorporated accordingly in the amendments hereto attached as Annex "1".

NOW, THEREFORE, Be it resolved, as it is hereby resolved, to approve, as the same is being approved, the proposed amendments to the CPES Implementing Guidelines for Infrastructure Projects for adoption by the government which shall take effect fifteen (15) days upon publication by the CIAP in a leading newspaper of nationwide coverage or the Official Gazette and furnishing the University of the Philippines (UP) Law Center a copy thereof.

UNANIMOUSLY APPROVED, 13 September 2011.

For the INFRACOM:

CAYETANO W. PADERANGA, JR.

Secretary of Socioeconomic Planning As Chairman, INFRACOM

Attested by:

LIBRADO F. QUITORIANO

Executive Director INFRACOM Secretariat





#### REPUBLIC OF THE PHILIPPINES

### NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY

## NEDA BOARD COMMITTEE ON INFRASTRUCTURE (INFRACOM) Resolution No.1, Series of 2014

# A RESOLUTION APPROVING THE IMPLEMENTING GUIDELINES ON CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM (CPES) FOR INFRASTRUCTURE PROJECTS

WHEREAS, Annex E, Section 12 of the Implementing Rules and Regulations (IRR) of Republic Act (RA) No, 9184 or the "Government Procurement Reform Act" mandates all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-Approved Constructors Performance Evaluation System (CPES) Guidelines for the type of project being implemented;

WHEREAS, said Guidelines cover all infrastructure projects awarded by the government regardless of contract amount and funding source;

WHEREAS, the existing CPES Guidelines were approved by the NEDA Board Committee on Infrastructure (INFRACOM) on 27 August 2008;

WHEREAS, there was a need to amend the existing CPES Guidelines to further enhance the effectiveness of the CPES in ensuring the quality of infrastructure projects of the Government;

WHEREAS, the latest proposed amendments to the CPES Guidelines were endorsed by the Construction Industry Authority of the Philippines (CIAP) Board per its Resolution No. 4 dated 26 March 2014 for approval by the INFRACOM pursuant to Annex E, Section 12 of the IRR of RA 9184;

WHEREAS, the proposed amendments were presented by the CIAP to the INFRACOM for approval on 20 November 2014;

WHEREAS, the INFRACOM approved the amendments on the CPES Guidelines for Infrastructure Projects subject to the revision of Item 12.3 of the same for clarity;

WHEREAS, the corrected portion of Item 12.3 of the proposed amendments to the CPES Guidelines were submitted by CIAP in its letter dated 27 November 2014;

NOW, THEREFORE, be it resolved, as it is hereby resolved, to approve the proposed amendments to the CPES Guidelines for Infrastructure Projects for adoption by the government which shall take effect 15 days upon publication by CIAP in leading newspaper or the Official Gazette and furnishing the University of the Philippines (UP) Law Center a copy thereof.

UNANIMOUSLY APPROVED, 20 November 2014.

For the INFRACOM:

ARSENIO M. BALISACAN
Secretary of Socioeconomic Planning
As Chairman INFRACOM

Attested by:

Assistant Director-General and Executive Director, INFRACOM Secretariat





#### CIAP BOARD RESOLUTION NO. 10 Series of 2011

ENDORSING AMENDMENTS TO THE CPES IMPLEMENTING GUIDELINES TO THE NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY (NEDA) BOARD'S COMMITTEE OF INFRASTRUCTURE (INFRACOM) FOR APPROVAL

WHEREAS, Section 12, Annex E of the Revised Implementing Rules and Regulations, (IRR) of RA 9184 or the Government Procurement Reform Act, requires all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-approved Constructors Performance Evaluation System (CPES) for the type of projects being implemented;

WHEREAS, the PDCB Board, during its 32<sup>nd</sup> Regular Board Meeting held on 29 July 2009, instructed the PDCB Secretariat to come up with a plan of actions to improve the implementation of CPES considering the issues and recommendations generated from the survey conducted by PDCB for this purpose;

WHEREAS, for this purpose, the CPES Inter-Agency Committee composed of representatives from the Departments of Public Works and Highways (DPWH), Transportation and Communications (DOTC), Science and Technology (DOST), Education (DepEd), the National Irrigation Administration (NIA), Philippine Tourism Authority (PTA), National Housing Authority (NHA), Bases Conversion and Development Authority (BCDA), Development Bank of the Philippines (DBP), University of the Philippines System (UP) and Polytechnic University of the Philippines (PUP) met on September 23 and November 20, 2009 and drafted proposals to amend the CPES Implementing Guidelines;

WHEREAS, the PDCB Board during its 45<sup>th</sup> Regular Meeting held on 22 February 2011, passed PDCB Resolution No. 03, Series of 2011, endorsing to the CIAP Board proposed amendments to the implementing Guidelines of CPES;

NOW, THEREFORE, the Construction Industry Authority of the Philippines, after due deliberations on its 59<sup>th</sup> Regular Meeting, RESOLVES, as it is hereby RESOLVED, to endorse to the National Economic and Development Authority (NEDA) Board Committee on Infrastructure (INFRACOM) for approval the proposed amendments to the Implementing Guidelines of the Constructors Performance Evaluation System (CPES) on Corrective Action Request (CAR), Blacklisting of Constructors, Uses of CPES Rating and Time hereto attached as Annex "1" and made an integral part of this Resolution.

UNANIMOUSLY APPROVED.

25 March 2011, Makati City

( And and

ZENAIDA CUISON MAGLAYA Undersecretary ノムケ

(Representing DTI Secretary and CIAP Chairman Gregory L. Domingo)

CIAP Board Resolution No. 10 Page 2 of 2	, Series of 2011			
Attested by:	1			
JESUS L. MOTOOMU Acting Board Secretar				
Republic of the Philip City of Makati	pines) )ss.	MAY 18		
SUBSCRIBED AND SWO Motoomull, acting C CCI2010 05996607 is	IAP Board Secreta	ary exhibiting his	Community T	11 affiant Jesus L. ax Certificate No.
Doc. No. 347 Page No. 7/ Book No. 1/ Series of 2011.		//		
	YDLANI UNTIL	OTARY PUBLIC DECEMBER 31, 20	111	
	PTR NO. 965 IBP NO. 783	3541:2-19-09 ROLL NO.57483	CAVITE :MANIL	
	MCLE COM	PLIANCE NO. 00	03210	





#### CIAP BOARD RESOLUTION NO. 4, Series of 2014

"ENDORSING AMENDMENTS TO THE CONSTRUCTORS PERFORMANCE EVALUTION SYSTEM IMPLEMENTING GUIDELINES TO THE NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY (NEDA) BOARD'S COMMITTEE OF INFRASTRUCTURE (INFRACOM) FOR APPROVAL"

WHEREAS, Section 12, Annex E of the Revised Implementing Rules and Regulations (IRR) of RA 9184 or the Government Procurement Reform Act, requires all procuring entities, implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA approved Constructors Performance Evaluation System for the type of projects being implemented.

WHEREAS, in the Philippine Domestic Construction Board (PDCB), in its efforts to improve the implementation of CPES, conducted series of CPES Interagency Meetings and came up with the proposed amendments to the CPES Implementing Guidelines under PDCB Resolution No. 1, s. 2013 and submitted the same to CIAP Board;

WHEREAS, during the CIAP 65th and 66th Regular Meetings held on 19 April and 26 July 2013, respectively, the Board discussed the proposed amendments to include among others the proposal for clarification of validity period on the disqualification of contractors and its automatic reinstatement into a good standing rating, in case there is no second and final CPES evaluation within a certain period.

WHEREAS, during the CIAP Special Meeting held on 10 September 2013, the Board further discussed the above proposed amendments and recommend the lifting of disqualification of contractors resulting in below satisfactory for CPES rating for ongoing project should be left at the discretion of the concerned agency instead of "automatic lifting" after one year. The said recommendation was sent back to PDCB for further study.

WHEREAS, during the PDCB 75th Regular Meeting held on 17 October 2013, the PDCB deliberated on the CIAP Board's recommendation and agreed to reword the proposed amendments to the CPES guidelines particularly, Sec. 12.3.4 in accordance with the said recommendation:

WHEREAS, the said final version of the proposed amendments to the CPES Guidelines incorporating the said recommendation was presented to the CIAP Board in its 67th Regular Board Meeting held on 26 March 2014 attached as "Annex A";

CONSTRUCTION INDUSTRY AUTHORITY OF THE PHILIPPINES

5<sup>th</sup> Floor, Executive Center Bldg. 369 Sen Gil Puyat Cor. Makati Ave., Makati City, Philippines

5" Floor, Executive Center Bldg. 369 Sen Gil Puyat Cor. Makati Ave., Makati City, Philippinet Telephone: (632) 895-6826/895-4424 Fax: (632) 897-9336 E-mail: ciapdii@vahoo.com.ph www.dii.gov.ph



Page 2 of 2 CIAP Board Resolution No. 4, st 2014 ENDORSING AMENDMENTS TO THE CPES IMPLEMENTING GUIDELINES TO THE NEDA BOARD'S INFRACOM FOR APPROVAL

NOW THEREFORE, the members of the Construction Industry Authority of the Philippines after due deliberations in the said Meeting, RESOLVES, as it is hereby RESOLVED, to endorse to the National Economic and Development Authority (NEDA) Board Committee on Infrastructure (INFRACOM) for approval of the proposed amendments to the Implementing Guidelines of the Constructors Performance Evaluation System (CPES) on aspects and criteria for evaluation, requirements and procedure for renewal of accreditation as well as post qualifications, among others, hereto attached as "Annex A" and made an integral part of this Resolution.

Unanimously approved. 26 March 2014, Makati City

FOR THE CIAP BOARD

Department of Public Works and Highways Office of the Secretary

OUT4\$54881

SECRETARY ROGELIO L. SINGSON Secretary Department of Public Works and Highways and Vice Chairman/Member- CIAP

Attested by:

JESUS L MOTOOMULL Acting Board Secretary

Republic of the Philippines) City of Makati )ss.

MAY 2 2 2814

affiant ROGELIO L. SINGSON, Vice Subscribed and sworn to before me, this day of Chairman/Member- CIAP exhibiting his DPWH ID No. 10-Z0011 issued on April 4, 2011.

Doc. No. Page No. (gl) Book No. 63 Series of 2014.

Until December 31, 2014 PTR # 4225833 MakeTi City 1-3-2014 Atty. Roll # 26/04 MCLE No. 11-0008531

IBP No. 957356 Jan. 14 2014

Samer

## Salient Features of Constructors Performance Evaluation System (CPES) Implementing Guidelines for Infrastructure Projects

Constructors Performance Evaluation System (CPES) – a system of grading the performance of a constructor for a specific kind of infrastructure projects using a set of criteria.

#### Mandate

Section 12, Annex E of the **Revised** Implementing Rules and Regulations (IRR) of R.A. 9184 or the Government Procurement Reform Act, requires all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-approved Constructors Performance Evaluation System (CPES) guidelines for the type of project being implemented. Section 12, likewise, requires all procuring entities to include in their Projects' Engineering and Administrative Overhead Cost, the budget for CPES implementation pursuant to NEDA Board Resolution No. 18 (s.2002); to establish CPES Implementing Units in their respective offices/agencies/corporations; and to use the CPES ratings for the following purposes: a) pre-qualification/eligibility screening; b) awarding of contracts; c) project monitoring & control; d) issuance of Certificate of Completion; e) policy formulation/review; f) industry planning; g) granting of incentives/awards; and in adopting measures to further improve performance of contractors in the prosecution of government projects.

#### **Objectives**

The CPES was developed in order to: a) establish a uniform set of criteria for rating the performance of constructors; b) develop a centralized base of information on performance rating of constructors for licensing, pre-qualification, quality improvement, and other purposes of government agencies, project owners and other interested parties; and c) contribute in ensuring that infrastructure projects are conformed with the specified requirements of project owners.

#### **Persons Involved in CPES Implementation**

- 1. CPES Implementing Unit (CPES IU) refers to the unit of an agency responsible for the implementation of CPES;
- 2. Constructors Performance Evaluators (CPE) refers to an individual or group of evaluators accredited by CIAP's PDCB tasked to undertake performance evaluation of a constructor's project using the CPES Guidelines and/or evaluation requirements of the construction industry; and
- 3. CIAP's PDCB shall establish the CPES central databank and maintain linkages with concerned agencies to ensure timely and continuous submission of authenticated copies of accomplished CPES Evaluation Form and to facilitate information sharing among users of CPES data.

#### **Aspects of Evaluation**

 During Construction (60% for Horizontal Projects such as Road, Bridge, Ports & Harbor, Irrigation and Flood Control, Water Supply and Sewerage, and Mooring Facilities for Power Barges and 70% for Vertical Projects such as Housing, Building, Power Transmission Line, Substation and Diesel Power Plant) – minimum of two (2) visits with the conduct of first visit when the actual project accomplishment is at least 30% except for projects with a duration of 90 calendar days and below which may be subjected to at least one (1) final visit.

2. **Upon Completion** (40% for Horizontal Projects and 30% for Vertical Projects) – final visit when the Implementing Office reported 100% completion.

#### **Criteria for Evaluation**

1. **During Construction** (60% for Horizontal Projects and 70% for Vertical Projects)

Criteria for Evaluation	Maximum Rating
Workmanship	0.40
Materials	0.30
Time	0.15
Facilities	0.03
Environmental, Safety and Health	0.07
Resources Deployment	0.05
	===
TOTAL	1.00

2. **Upon Completion** (40% for Horizontal Projects and 30% for Vertical Projects)

Criteria for Evaluation	Maximum Rating
Workmanship Materials	0.50 0.20
Time	0.30
TOTAL	1.00

Workmanship – refers to the quality and quantity of on-going and/or completed items of work, which are verifiable, in accordance to approved plans and specifications. In evaluating the constructors workmanship, spots comprising at least 10% for every on-going and/or completed items of work; which are verifiable, shall be randomly predetermined by the CPE prior to actual site inspection.

Materials – refers to the quality, quantity and type of construction materials and components supplied by the constructor or by entities other than the constructors as required in the contract.

Time – refers to the over-all accomplishment in accordance with the approved PERT/CPM or approved program of work.

Facilities – refers to those set-up by the constructor prior to actual project start as indicated in the contract.

Environmental, Safety and Health – refers to the constructors' ability to 1) comply with environmental protection requirements; and 2) observe the safety and health measures as specified in the contract.

Resources Deployment – refers to the ability of the constructor to deploy on time, based on the approved PERT/CPM or program of work, the required/pledged resources such as materials, equipment in good running condition and manpower.

#### Summary of the 3<sup>rd</sup> Amendments

	Section	Features
1.	Mandate Section 1 – General	Modified "Implementing Rules and Regulations, Part A (IRR-A)" to "Revised Implementing Rules and Regulations (IRR)" to make it consistent with the Revised IRR of RA 9184.
3.	Section 6.1 – During Construction	
4.	Section 6.1 – Upon Completion	Included the new checklists for workmanship for mooring facilities for power barges and diesel power plant projects.
5.	Section 7.1.a – Workmanship	
6.	Section 7.1.c - Time	Provided a formula for the computation of score for Time – During Construction for contracts with no materials or materials are supplied by the owner.
7.	Section 7.2.c - Time	Provided a formula for the computation of score for Time if the project is delayed to harmonize with Section III.a.2.b of the Guidelines on Termination of Contracts, and Section 8, Item 8.4 – Liquidated Damages on Annex E of the IRR of RA 9184.
		Provided a formula for the computation of score for Time – Upon Completion for contracts with no materials or materials are supplied by the owner.
8.	Section 11.4 – CPES Checklists	Included the new checklists for workmanship for mooring facilities for power barges and diesel power plant projects.
9.	Section 12.2 – Agency Shortlist	Revised the existing Sections to be consistent with
10.	Section 12.3 – Post Qualification	the Sections in the Revised IRR of RA 9184.
11.	Section 12.5 – Issuance	Provided a provision to ensure that contractor

	of complied with the Corrective Action Requests (CARs) issued by the CPES Evaluators before the agency's Implementing Office issue Certificate o Completion.
12. Section 12.6 Blacklisting Constructors	<ul> <li>Deleted the word "final" in the CPES final rating and specify Section 4.2f of the GPPB Guidelines fo Blacklisting of Constructors.</li> </ul>

# CONSTRUCTORS' PERFORMANCE EVALUATION SYSTEM (CPES) IMPLEMENTING GUIDELINES FOR INFRASTRUCTURE PROJECTS<sup>1</sup>

#### 1. GENERAL

Section 12, Annex E of the Revised Implementing Rules and Regulation (IRR) of R.A. 9184 or the Government Procurement Reform Act, requires all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-approved Constructors Performance Evaluation System (CPES) guidelines for the type of project being implemented. Section 12, likewise, requires all procuring entities to include in their Projects' Engineering and Administrative Overhead Cost, the budget for CPES implementation pursuant to NEDA Board Resolution No. 18 (s. 2002); to establish CPES Implementing Units in their respective offices/agencies/corporations; and to use the CPES ratings for the following purposes: a) pre-qualification/eligibility screening; b) awarding of contracts; c) project monitoring & control; d) issuance of Certificate of Completion; e) policy formulation/review; f) industry planning; g) granting of incentives/awards; and in adopting measures to further improve performance of contractors in the prosecution of government projects.

#### 2. OBJECTIVES

The CPES was developed in order to:

- 2.1 Establish a uniform set of criteria for rating the performance of constructors;
- 2.2 Develop a centralized base of information on performance rating of constructors for licensing, pre-qualification, quality improvement, and other purposes of government agencies, project owners, financing and insurance companies and other interested parties; and
- 2.3 Contribute in ensuring that infrastructure projects conform with the specified requirements of project owners.

#### 3. SCOPE

The guidelines shall be used in the performance evaluation of constructors undertaking government infrastructure projects as follows:

- 3.1 Local constructors licensed by and registered with the Philippine Contractors Accreditation Board (PCAB);
- 3.2 Foreign constructors licensed by the PCAB; and
- 3.3 Joint ventures and consortia licensed by the PCAB.

<sup>&</sup>lt;sup>1</sup> Full text of CPES Implementing Guidelines with amendments (in bold and underlined text) as approved by the NEDA Board Committee on Infrastructure (INFRACOM) on 20 November 2014 under Resolution No. 01, Series of 2014.

#### 4. DEFINITION OF TERMS

- 4.1 **CIAP** refers to the Construction Industry Authority of the Philippines, an attached agency of the Department of Trade & Industry created by Presidential Decree (PD) No. 1746 to promote, accelerate, and regulate the growth and development of the construction industry.
- 4.2 **Constructor** deemed synonymous with the term builder and hence, any entity including joint venture and consortium licensed by PCAB who undertakes or purports to have the capacity to undertake or submits a bid for infrastructure projects.
- 4.3 Constructors' Performance Evaluation System (CPES) a system of grading the performance of a constructor for a specific kind of projects using a set of criteria, approved by the NEDA-INFRACOM.
- 4.4 **Constructors' Performance Evaluator/s (CPE)** an individual or group of evaluators accredited by CIAP tasked to undertake performance evaluation of a constructor's project using the CPES quidelines and/or evaluation requirements of the construction industry.
- 4.5 **Corrective Action Plan (CAP)** is a plan of action proposed by the constructor to the concerned agency's implementing office which is aimed to correct the non-conformance findings on the project based on the CAR issued by the CPE(s). The CAP shall include the constructor's specific actions and timetable to immediately correct the findings subject to the approval by the head of the concerned implementing office or his authorized representative.
- 4.6 **Corrective Action Request (CAR)** a request form wherein the CPE records his/her validated finding(s) including corresponding location(s) which do not conform to any of the checklist indicators requiring immediate actions by the constructor.
- 4.7 **CPES Implementing Unit (IU)** the unit of an agency responsible for the implementation of CPES.
- 4.8 **Defects Liability Period** shall be one (1) year from project completion up to final acceptance by the Government.
- 4.9 **During Construction** reckoned from the time the construction is to start as stated in the Notice to Proceed (NTP) up to substantial completion of the project.
- 4.10 **GPPB** refers to the Government Procurement Policy Board established under Section 63, Article XX of RA 9184.
- 4.11 **Head of the Procuring Entity** refers to: (i) the head of the agency or body, or his duly authorized official, for NGAs and the constitutional commissions or offices, and branches of government; (ii) the governing board or its duly authorized official, for GOCCs, GFIs and SUCs; or (iii) the local chief executive, for LGUs: Provided, however, that in an agency, department, or office where the procurement is

- decentralized, the Head of each decentralized unit shall be considered as the head of the procuring entity subject to the limitations and authority delegated by the head of the agency, department, or office.
- 4.12 **Implementing Office (IO) -** refer to the unit(s) or department(s) within the agency assigned to supervise the implementation of infrastructure projects.
- 4.13 **INFRACOM** refers to the NEDA Board Committee on Infrastructure created under Executive Order No. 230, Series of 1987.
- 4.14 Infrastructure Projects refers to construction, improvement or rehabilitation of roads and highways, airports and air navigation facilities, railways, ports, flood control and drainage, water supply and sewerage, irrigation systems, dams, buildings, communication facilities, dredging and reclamation, power generating plants, power transmission and distribution facilities and other related construction projects.
- 4.15 **NEDA** refers to the National Economic and Development Authority.
- 4.16 PCAB refers to the Philippine Contractors Accreditation Board, one of the implementing Boards of the CIAP which is tasked among others, to issue, deny, suspend, or revoke licenses of construction contractors by virtue of Republic Act 4566, as amended by PD 1746.
- 4.17 PDCB refers to the Philippine Domestic Construction Board, one of the implementing Boards of the CIAP which is tasked to formulate, recommend and implement policies, guidelines, plans and programs for the efficient implementation of public and private construction in the country.
- 4.18 **Percentage Weight -** the weight for a specific item of work, computed by dividing its cost by the total contract amount multiplied by one hundred (100).
- 4.19 **Preventive Action Plan -** is a plan of action proposed by the constructor to the concerned agency's implementing office which is aimed to prevent the recurrence of non-conformance findings on his on-going and/or future projects.
- 4.20 **Rate -** the score for each item of work evaluated, derived using the criteria in evaluating the workmanship and materials aspects.
- 4.21 **Relative Percentage Weight** refers to the weight of an item of work to be rated computed by dividing the percentage weight of the item of work to be rated by the sum of the percentage weight of all items.
- 4.22 **Relative Rate** the product of the relative percentage weight and the rate for each item of work.

- 4.23 **Spot -** an area selected from the identified location of on-going and/or completed items of work which will be subject for evaluation/inspection.
- 4.24 **Upon Completion** refers to 100% completion of the project as reported by the Implementing Office. Completion of project on time includes demobilization and final clean-up.

#### 5. FUNCTIONAL/DEPLOYMENT FLOWCHART

The sequential activities to be undertaken by the CPES Implementing Unit (IU), Constructors Performance Evaluators (CPE), Constructor, Implementing Office (IO), and Construction Industry Authority of the Philippines (CIAP) are presented hereunder. The CPES Functional/Deployment Flowchart is illustrated in Annex 1.

#### 5.1 Listing of Projects by the CPES-IU

The CPES-IU shall prepare the list of all infrastructure projects of the agency which have been issued Notice to Proceed (NTP) on a monthly basis upon receipt of documents "a" and "b" as listed in Section 10.1 hereof from the Implementing Offices concerned. Thereafter, the CPES-IU shall determine the frequency and tentative date(s) of the evaluation to be undertaken by the CPE for each project based on the following parameters:

- a. During Construction Except for those projects with a duration of 90 calendar days and below which may be subjected to at least one (1) visit, all projects shall be subjected to a minimum of two (2) evaluations to be performed by the CPE. The number of evaluations beyond the prescribed minimum shall be determined by the CPES-IU based on the size, nature and complexity of the project and shall be subject to approval by the proper authorities within the agency. The first evaluation shall be performed when the project is at least thirty percent (30%) physically complete or as maybe required by the CPES-IU using the S-curve or other appropriate means to determine whether there is substantial work completed for evaluation.
- b. Upon Completion only one evaluation shall be performed by the CPE right after the Implementing Office (IO) reports one hundred percent (100%) completion of the project.

#### 5.2 Consolidation and Review of Documents by the CPES-IU

Prior to the tentative evaluation date(s), the CPES-IU shall require the IO concerned to submit copies of documents "c" to "f" as listed in Section 10.1 hereof and consolidate all of the submitted project documents for subsequent use of the CPE. The punch list listed as document "g" shall form part of the documentary requirement for the "upon completion" evaluation only. Based on the status of the project, the CPES-IU shall determine the most appropriate evaluation date(s)

and fills out the CPES Evaluation Forms to be used for such evaluation.

#### 5.3 Assignment of CPE and Provision of Documents by the CPES-IU

The CPES-IU shall coordinate and schedule the most appropriate evaluation date(s) of the CPE. Also, the CPES-IU shall provide the CPE with all the necessary documents for evaluation. The CPE shall be selected by the CPES-IU from the evaluators accredited by CIAP.

## 5.4 Review of CPES-IU - Supplied Documents and Pre-determination of Spots for Evaluation by the CPE

The CPE upon receipt of the documents supplied by the CPES-IU shall review the same and enter pertinent data (e.g. standards and tolerances) in the appropriate spaces provided for in the CPES checklist. The CPE shall also select spots randomly for evaluation prior to site inspection.

# 5.5 Finalization of Evaluation Date(s) and Notification of Agency's and Constructor's Project Engineer and/or Authorized Representative

The CPES-IU shall finalize the date(s) of actual evaluation based on latest project updates provided by the concerned IO and the agreements made with the CPE. The CPES-IU shall, likewise, notify the agency's and constructor's project engineer and/or Authorized Representative before the actual evaluation date(s) within 24 hours for projects located in urban areas where means of communications are readily available and three (3) working days for projects located in remote areas. The presence of constructors and/or its authorized representatives is a requirement during CPES project site evaluation.

### 5.6 Notification of CPE, CPE Resource Persons/Witnesses by the CPES-IU.

The CPES-IU shall inform the CPE and CPE resource persons/witnesses as enumerated in Section 9.3 hereof of the evaluation date(s). The CPES-IU shall request their presence on said date(s) and specified venue. The resource persons/witnesses shall provide necessary information/inputs to the CPE.

## 5.7 Consolidation and Submission of Documents by Constructor's Project Engineer and/or Authorized Representative

The constructor's project engineer shall consolidate documents "a" & "b" as listed in Section 10.2 hereof and present the same during the on-site pre-evaluation meeting to be conducted by the CPE.

## 5.8 Conduct of On-site Pre-Evaluation Meeting among CPE, Resource Persons and Witnesses

CPE Prior to actual evaluation. the and its resource persons/witnesses shall meet to discuss the following: purpose and mechanics of CPES; scope and status of each work item (percentage of accomplishment) to be evaluated; documents supplied by the constructor's project engineer; and other factors affecting the implementation of the project. Based on said discussion, the CPE shall update/validate all of the standards/tolerances on relevant checklists to be used.

#### 5.9 Conduct of Actual Evaluation by CPE

Based on the pre-determined spots to be evaluated, the CPE and its resource persons/witnesses, shall undertake the necessary evaluation and records findings in relevant checklists. The CPE may list additional indicators in relevant checklists if needed and corresponding findings. The CPE shall also take photos and/or videos to substantiate its findings.

Should there be a need to assess the constructor's performance during the defects liability period, the CPES-IU may request the CPE to undertake such evaluation. The evaluation results shall be submitted by the CPE to the CPES-IU and/or concerned units of the agency.

#### 5.10 Conduct of Post-Evaluation Meeting

a. Validation of Findings by CPE

The CPE leader shall convene a meeting to be attended by the CPE members, resource persons and witnesses to deliberate on the findings and validate the causes for such.

b. Finalization of Evaluation Rating and CAR(s) by CPE

Based on validated findings, the CPE shall meet to finalize its evaluation rating as well as CAR(s), if any, using relevant forms. Each CAR, however, shall be prepared in duplicate copies.

c. Presentation /Issuance of Rating and CAR(s) by CPE

The CPE leader shall reconvene the meeting with the CPE members, resource persons and witnesses in order for him to present the evaluation rating and issue the duplicate copies of the CAR(s) to the constructor's project engineer.

d. Agreement on Rating and CAR(s) by Constructor's Project Engineer and/or Authorized Representative

If in agreement with the ratings and CAR(s), the Constructor's project engineer and/or Authorized Representative shall

acknowledge the relevant documents. Thereafter, said engineer and/or Authorized Representative shall be given duplicate copies of the CAR(s). But in case of disagreements with the rating or any of the CAR(s), the CPE leader shall inform said engineer and/or Authorized Representative that these shall be settled by an appropriate adjudicating body to be designated by the agency. In cases where the constructor and/or its representatives are absent during the CPES project evaluation, even after advance and proper notification, the CPES Rating of the constructor will be considered final and binding.

#### e. Monitoring of Constructor's Compliance on CAR by CPES-IU

To ensure and check constructor's compliance on CAR, the CPES-IU shall require the government project engineer to submit a Monitoring Report to the concerned Implementing Office, copy furnished the CPES-IU, to validate compliance with the CAR. Emphasis should be on projects with "Remove and Replace" proposed CAP and taking into consideration the pledged date of corrective action by the constructor. If possible, photos shall be attached to provide evidence on the works undertaken.

#### 5.11 Submission of CPES Reports to CPES-IU

Immediately after the completion of the evaluation, the CPE leader shall submit to the CPES-IU the original copies of the accomplished CPES Evaluation Form (cover sheet, rating sheet, checklists and summary sheet), Constructor's Performance Summary Report and CAR(s). The CPE leader shall, likewise, prepare a report indicating the documents to be submitted to the agency's designated adjudicating body, in case when there is appeal made by the constructor.

# 5.12 Preparation and Implementation of Corrective Action Plan (CAP) and Preventive Action Plan (PAP) by the Constructor

Based on the non-conformance findings prepared by CPE, the constructor shall prepare and submit the corresponding CAP to the Head of the IO for his assessment and subsequent approval. If the CAP is approved by the Head of the Procuring Entity, the constructor's Project Engineer (PE) and/or Authorized Representative shall implement the plan which shall be monitored by the Project Owner's PE. The concerned IO shall monitor the constructor's implementation of all the recommendations made by the CPE on the noted non-conformances. This shall be supported by videos or photos before, during and after rectification has been made. After the constructor has satisfactorily completed all the corrections made, the IO shall submit the reports to the CPES-IU. However, if CAP is disapproved, the constructor's PE has to submit another CAP proposal for approval by the Head of the Procuring Entity. The constructor has to submit PAP proposal if similar findings by the CPE occurred twice or more. The process of PAP's approval is similar to CAP's.

## 5.13 Review of CPES Rating, Preparation of Reports, and Dissemination of Information by CPES - IU

The CPES-IU, upon receipt of the CPES Evaluation Report for a particular project shall review the completeness, accuracy and consistency of its contents. Should the contents be in order, the CPES-IU shall submit the reports to the CIAP, concerned IO and other departments/units which need the information.

After the required site visits for each project have been completed, the CPES-IU shall issue a CPES Rating to the constructor upon satisfactory completion of the necessary corrective actions listed in the CAR(s).

The CPES-IU shall submit to CIAP's PDCB an authenticated photocopy of the Constructor's Performance Summary Report within thirty (30) days after evaluation; except for implementing agencies evaluating more than one hundred (100) infrastructure projects which may submit the report within two (2) months after evaluation.

#### 5.14 Databanking by CPES-IU and CIAP

All original copies of the CPES rating sheets shall be filed and pertinent data stored in a computer by the CPES-IU for easy access and processing of information in the future. This unit shall serve as the agency's databank for all CPES information and documents pertaining to its projects and constructors.

CIAP's PDCB, on the other hand, shall establish the CPES central data bank and maintain linkages with concerned agencies to ensure timely and continuous submission of authenticated copies of accomplished Constructor's Performance Summary Report and to facilitate information sharing among users of CPES data.

#### 6. ASPECTS OF EVALUATION

The performance of the constructor shall be evaluated "during construction" and "upon completion" of a project. The assigned weights and aspects to be evaluated "during construction" and "upon completion" shall vary depending on the kind of project as follows:

6.1 **During Construction** - with a weight of 60% for horizontal projects, such as road, bridge, port and harbor, irrigation and flood control, water supply and sewerage, mooring facilities for power barges, **site development**, etc., and 70% for vertical projects, such as housing and building, power transmission line, substation, and diesel power plant, etc., the maximum weight for the following criteria shall be:

<u>Criteria</u>	Maximum Rating
Workmanship	0.40
Materials	0.30
Time	0.15
Facilities	0.03
Environmental, Safety and Health (ESH)	0.07
Resources Deployment	<u>0.05</u>
Total	<u>1.00</u>

For contracts which do not involve the supply of construction materials or where the materials are supplied by the owner/agency, the maximum weights shall be:

<u>Criteria</u>	Maximum Rating
Workmanship	0.40
Time	0.20
Facilities	0.05
Environmental, Safety and Health (ESH)	0.10
Resources Deployment	<u>0.25</u>
Total	<u>1.00</u>

For projects which include both horizontal and vertical structures, the weight to be followed shall be that of the higher cost component of the project.

The assigned weight for vertical projects is higher than that for horizontal projects in view of the complexity of the nature of the former projects. In general, the evaluation "during construction" is assigned higher weight to ensure that constructors immediately attain satisfactory performance and maintain it until substantial work has been accomplished.

6.2 **Upon Completion** - with a weight of 40% for horizontal projects such as road, bridge, port and harbor, irrigation and flood control, water supply and sewerage, mooring facilities for power barges, <u>site development</u>, etc., and 30% for vertical projects such as housing and building, power transmission line, substation, and diesel power plant, etc., the maximum weight for the following criteria shall be:

<u>Criteria</u>	<u>Maximum Rating</u>
Workmanship	0.50
Materials	0.20
Time	<u>0.30</u>
Total	<u>1.00</u>

\_ . . .

For contracts which do not involve the supply of construction materials or where the materials are supplied by the owner/agency, the maximum weights shall be:

<u>Criteria</u>	Maximum Rating
Workmanship Time	0.50
Total	<u>0.50</u> <u>1.00</u>

#### 7. CRITERIA FOR EVALUATION

#### 7.1 **During Construction**

#### a. Workmanship [Maximum Rating of 0.40]

Workmanship refers to the quality and quantity of on-going and/or completed items of work, which are verifiable, in accordance to approved plans and specifications. This aspect covers the utilization of the correct methodology needed in producing the desired quantity and quality of work. In rating this aspect, efficiency of methodology shall be considered.

In assessing/evaluating workmanship, the following procedures shall be observed: a) before going to the project site, the CPE shall identify the location of on-going and/or completed items of works based on the approved plan, and b) from the location identified, the CPEs shall select spots randomly for evaluation. The combined area of spots shall not be less than 10% of the ongoing and/or completed items of works. Checklists for Workmanship for roads and bridges, housing and building, ports and harbor, irrigation, flood control, power transmission line, substation, mooring facilities for power barges and diesel power plant and <u>site development</u> projects are presented in Annex 2. Refer to Section 11.4a hereof in determining the rating for workmanship.

In case there are on-going or completed additional works or variation orders, which are verifiable, at the time of inspection, these shall be rated if said variations were approved by the Head of the Procuring Entity.

#### b. Materials [Maximum Rating of 0.30]

To impress upon the constructors the importance of materials in producing the desired quality of an item of work, this aspect is viewed separately from workmanship as another factor in assessing performance.

Materials means the quality, quantity and type of construction materials including asphalt and ready-mixed concrete, and components supplied by entities other than the constructors as required in the contract. The constructor gets the full rating of  $\underline{0.30}$  for materials in a particular item of work if he complies with all the applicable indicators in the checklist for materials in Annex 3. Refer to Section 11.4b in rating materials.

Alternative construction materials used by the constructor may also be considered by the CPE in rating the materials aspect, provided there are supporting documents consisting of the approval by the owner's authorized personnel and test results. If a work item does not require the use of materials (e.g., demolition of existing structure, excavation, or scraping), the constructor automatically gets <u>0.30</u> in this aspect provided he gets the full rating in the workmanship aspect for such work item. However, if the particular item of work was not done or inadequately complied with, the rating for material shall be <u>0.00</u>. Furthermore, when a particular item of work was not rated since it is no longer visible and cannot be verified, the material aspect for such item of work shall not be rated.

Materials for on-going or completed additional works, which are verifiable, at the time of inspection shall also be rated provided said variations were approved by the Head of the Procuring Entity.

Unlike the workmanship and materials aspects which are evaluated on a per item of work, the following four (4) aspects shall be appraised during each visit without particular attention to the work items completed/being completed by the constructor.

#### c. Time [Maximum Rating of 0.15]

This refers to the over-all accomplishment in accordance with the approved PERT/CPM or approved program of work. The constructor gets a full rating of <u>0.15</u> if he is on or ahead of schedule but gets a lower score if there is any delay or slippage attributable to his fault. The score shall depend on the percentage of delay as reflected in the checklist for time aspect presented in Annex 4. Refer to Section 11.4c in rating the time aspect.

For contracts with no materials or materials are supplied by the owner, the computation of score for Time aspect is presented in Annex 4 – For contracts with no materials or materials are supplied by the owner.

In case there are on-going or completed additional works or variation orders, time would be rated based on the effective PERT CPM and S-Curve approved by the Head of the Procuring Entity. In case it has not yet been approved by the Head of the Procuring Entity, time shall be rated based on the latest approved PERT CPM and S-curve.

#### d. Facilities [Maximum Rating of 0.03]

The facilities referred to are those set up by the constructor prior to the actual start of the project and maintained during the construction period. This aspect covers the provision of project signboard, sanitary and/or field and on-site office facilities which includes the surveying, transport and communication, testing and other equipment, appliances, utensils and other items as required in the contract. The constructor merits a full rating of <u>0.03</u> if he complies with the indicators enumerated in the checklist for facilities presented in Annex 5. Refer to Section 11.4d in rating this aspect.

In case the contract does not indicate any provision for camp facilities, to be checked are the sanitary, field and on-site office facilities provided by the constructor for its technical staff and workers.

## e. Environmental, Safety and Health (ESH) [Maximum Rating of 0.07]

The constructor must learn to care for his environment and must try his best not to pollute during project prosecution. He must observe safety and health measures as required in the general and/or special contract provisions, and safeguard the lives of his workers and those of the general public. The constructor gets a full rating of <u>0.07</u> if he complies with the applicable indicators enumerated in the checklist for ESH presented in Annex 6. Refer to Section 11.4e in rating this aspect.

#### f. Resources Deployment [Maximum Rating of 0.05]

In this aspect, to be evaluated is the constructor's ability to deploy on time, based on the approved PERT/CPM or program of work, the required/pledged facilities and resources such as materials, equipment in good running condition and manpower. Refer to Section 11.4f in rating this aspect. Resources deployment checklist is presented in Annex 7.

Should there be on-going additional works or variation orders at the time of inspection not yet covered by approved variation order, the provision on this matter as stated in Section 7.1-c shall likewise be adopted.

#### 7.2 Upon Completion

#### a. Workmanship [Maximum Rating of 0.50]

Workmanship is one of the three aspects to be evaluated when the project is one hundred percent (100%) complete as reported by the IO.

The punch lists prepared by the inspectorate team may serve as additional reference for project evaluation. The constructor shall merit a full rating of <u>0.50</u> for a particular item of work if he satisfies the applicable indicators in the checklist. Spots comprising not less than ten percent (10%) of the entire project shall be the sample size used in evaluating this aspect.

#### b. Materials [Maximum Rating of 0.20]

In rating the aspect of material, a full rating of <u>0.20</u> shall be given to materials in a particular item of work if he complies with applicable indicators in the checklist for materials in Annex 3.

If a work item does not require the use of materials (e.g. demolition of existing structure, excavation, or scraping), the constructor automatically gets <u>0.20</u> in this aspect provided he gets the full rating in the workmanship aspect for such work item. However, if the particular item of work was not done or inadequately complied with, the rating for material shall be <u>0.00</u>. Furthermore, when a particular item of work was not rated since it is no longer visible and cannot be verified, the material aspect for such item of work shall not be rated.

#### c. Time [Maximum Rating of 0.30]

In rating the aspect of time, comparison shall be made between the approved contract completion time including time extensions granted and actual project completion time. Completion of a project on time includes demobilization and final clean-up.

The constructor shall get a full rating of  $\underline{0.30}$  if he is on or ahead of schedule but if the project is delayed due to his fault, he gets a lower score. The score shall depend on the percentage of delay as shown in Annex 4 – Upon Completion.

For contracts with no materials or materials are supplied by the owner, the computation of score for Time aspect is presented in Annex 4 – For contracts with no materials or materials are supplied by the owner for Upon Completion phase.

#### 8. CPES IMPLEMENTING UNIT

To ensure the effective implementation of CPES, each government agency undertaking infrastructure projects shall either create an independent unit or integrate the CPES functions in an existing unit with similar functions which shall act as the CPES-IU. Ideally, the CPES-IU should be under the office of agency head but it could also be attached to the agency's audit or monitoring group. Its organization and functions are as follows:

#### 8.1 Organization

The CPES-IU shall be composed of the following:

- a. Unit supervisor shall act as the head of the unit;
- b. Technical personnel shall assist the head in the performance of the unit's technical functions; and
- c. Administrative personnel shall perform all the administrative and coordinative requirements of the unit.

#### 8.2 Functions

The CPES-IU shall have technical and administrative/coordinative functions as follows:

#### a. Technical

- a.1 Undertake accreditation processes which consist of: a) prescreening and endorsement of application of CPE applicants; and b) facilitate conduct of CPES required training and seminars;
- a.2 Undertake yearly performance evaluation of CPEs.
- a.3 Update CPE members on latest developments and other technical functions.
- a.4 Orient resource persons/witnesses.
- a.5 Review and prepare CPES reports and recommend appropriate actions based on the CPES Rating; and
- a.6 Assign its accredited CPE staff member/s to act as individual CPE/s or member/s of the CPE group/team as required.

#### b. Administrative/Coordinative

- b.1 List all projects to be subjected to evaluation using CPES and identify/assign personnel to compose the CPE.
- b.2 Schedule orientation-seminar on CPES for in-house CPE members and resource persons/witnesses.
- b.3 Generate latest project status, schedule CPE site visits, coordinate visit with the Head of the Procuring Entity and constructor concerned, and file/safe keep all CPES related documents.
- b.4 Provide the CPE with CPES documents implementing guidelines and forms, and prepare CPE travel documents as required.
- b.5 Data banking and dissemination of CPES reports and documents to all concerned users within the agency, CIAP's Philippine Domestic Construction Board (PDCB), and other interested users.

To ensure that constructors understand the mechanics of CPES and how they are rated, their Authorized Managing Officers (AMOs) or their duly authorized Sustaining Technical Employees (STEs) shall be required to undergo a one-time Orientation Seminar on CPES to be conducted by the CIAP-PDCB prior to contract implementation.

#### 9. CONSTRUCTOR PERFORMANCE EVALUATOR/S (CPE)

Each government agency shall have the option of tapping in-house staff, third party evaluators or combination of both either as group/team or individual to compose the CPE. For those agencies whose CPE will be composed of in-house evaluators only or combination of in-house and third party evaluators, such in-house evaluators could either be assigned on a permanent or ad-hoc basis. It is necessary that all CPE members are not in any way involved with the project to be evaluated in order for them to give an objective and unbiased evaluation of the constructor's performance.

#### 9.1 Minimum Qualification of CPES Evaluators

All CPES evaluators shall be accredited by the CIAP based on the minimum qualifications as follows:

- a. Licensed Engineer or Architect.
- b. Must have at least 5 years experience in the actual implementation of project.
- c. In full enjoyment of his/her civil rights, must not have been convicted of a crime involving moral turpitude or of any other crime for which the penalty imposed upon him/her is over six (6) months of imprisonment.
- d. Willing to undergo all screening requirements and accreditation course for CPES evaluators to be conducted by the CIAP's PDCB or any of its accredited training institutions.

Professionals who have substantially complied with the minimum requirements stated in items "a" to "c" above, and who by reason of trainings or experiences in construction, conducted lectures on CPES accreditation courses upon invitation by the CIAP's PDCB are automatically accredited as CPES evaluators.

#### 9.2 Procedure and Requirements for Renewal of CPE Accreditation

CPE accreditation shall be valid for a period of three (3) years from the date of accreditation. An application for renewal of CPE accreditation may be filed with the CIAP's PDCB not later than two (2) years from expiry date.

The CPES-IU <u>or Accredited Professional Organizations (APOs) or Recognized Associations of Contractors</u> shall endorse the renewal application based on the performance of the CPE. For renewal of CPE Accreditation, it is required that a CPE:

- a. be endorsed by the head of CPES Implementing Unit <u>or</u>

  <u>Accredited Professional Organizations (APOs) or</u>

  <u>Recognized Associations of Contractors</u>; and
- b. must have evaluated at least one (1) infrastructure project.

In cases where the CPEs did not have the chance to evaluate projects due to limited number of infrastructure projects of the agency, the following options may be applied:

#### Option 1

Require CPE to attend Enhancement/Orientation Seminar conducted by the Agency CPES-IU <u>or Accredited Professional Organizations</u> (APOs) or Recognized Associations of Contractors in coordination with PDCB:

#### Option 2

CPE applying for renewal of accreditation must have been involved in various CPES related activities such as but not limited to:

- Agency or Accredited Professional Organizations (APOs) or <u>Recognized Associations of Contractors</u> representative tasked to formulate/amend the CPES Guidelines, checklist, etc:
- b. Resource person during seminars conducted on CPES; and
- c. Served as CPE for other agencies.

#### 9.3 Composition of CPES Evaluators

The composition of each CPE, individual or group, who have voting power, shall be:

Options	In-house CPE	Third Party CPE	Combination of In- House and Third Party CPE
Group or	One (1) CPE	Two (2) or more CPEs	One (1) CPE occupying
Team	occupying	from other	supervisory position.
	supervisory position	agencies/associations	
	who shall act as the	and not directly involved	
	CPE leader.	with the project to be	One (1) or more CPE/s
	0 (4)	evaluated.	from other
	One (1) or more		agencies/ <u>associations,</u>
	CPE/s as members.		and not directly involved with the
			project to be evaluated.
Individual	One (1) CPE not	One (1) CPE from other	project to be evaluated.
Individual	directly involved	agencies/associations,	
	with the project.	and not directly involved	
		with the project to be	
		evaluated.	

The resource persons/witnesses, who have no voting power, shall include the following:

# one (1) or more - Owner's and Constructor's Project Engineer and/or Consultant assigned in the project to act as resource person(s); one (1) - (Optional) Representative from any of the CIAP accredited constructors' associations nearest to the project site, knowledgeable in project implementation to act as witness;

one (1)	<ul> <li>(Optional) Representative from the Local Government Unit (LGU) where the project is located to act as witness;</li> </ul>
one (1)	- (Optional) Representative from the end-user (e.g. social, religious, or civic organization).

#### 10. DOCUMENTS REQUIRED FOR EVALUATION

The CPE should have the following documents for its review and reference during actual evaluation which shall be supplied by the IO and the constructor's project engineer:

#### 10.1 **IO-Supplied Documents**

- a. Contract documents: approved contract agreement, contract drawing, general and special/local provisions including plans and specifications, method of construction, safety and health measures
- b. Approved constructor's construction program: CPM work schedule or bar chart, materials/manpower schedule, equipment schedule, organizational chart, financial chart such as S-curve or cash flow
- c. Constructor's statistical reports: physical progress/status, equipment and manpower schedules based on the latest approved PERT/CPM
- d. Materials testing procedures, records of tests and results, materials quality control program
- e. Constructor's operational set-up: general lay-out of facilities, project office and quarters, warehouse, shops for repair/maintenance/carpentry/rebar
- f. List of subcontractors or suppliers
- g. Punch list (for final visit upon completion)
- h. Relevant checklists, CPES evaluation form and cover sheet

#### 10.2 Constructor's Project Engineer-Supplied Documents

- a. Project log book
- b. Updated records of tests/results and materials quality control program monitoring reports
- c. Other related reports

#### 11. CPES EVALUATION FORMS

The CPES evaluation form and cover sheet to be used by the CPE is contained in Annex 8 and this shall be reproduced by the CPES-IU for distribution to all CPE(s) concerned prior to site visits.

#### 11.1 Part 1 - Cover Sheet

Part 1 of the form is the cover sheet, which is to be filled up by the owner's project engineer contains the following general information: name and address of constructor; name and address of owner/authorized managing officer; valid license number; ARC category; nationality of constructor; project name, location; funding source; name of constructor's project manager and materials

engineer; name of government construction manager; original and revised contract amount and duration; scheduled date of project start and actual date started; and scheduled date of project completion and actual date completed (number of days advance/delayed are also indicated). Other necessary information pertaining to the project may also be included on this portion.

#### 11.2 Part II - Rating Sheet During Construction

The CPE shall use Part II of the form during the "construction phase" first and second visits, respectively. In case the CPE intends to conduct more than two (2) visits during this phase, Part II of the form may be reproduced to correspond to the additional number of visits it shall make. Part III shall be used for the final visit.

For Part II, the CPE shall list the items of work evaluated during the visit, their corresponding percentage weights and relative percentage weights, and their rates and relative rates for both workmanship and material aspects. As defined in Section 4 hereof, the percentage weight of a particular item of work subjected to evaluation shall be computed by dividing its total cost by the total contract amount while the relative percentage weight of said item of work shall be computed by dividing its percentage weight by the sum of the percentage weight of all evaluated items of work. The relative rate for each item of work for both aspects, which shall be computed by multiplying the rate for each item of work with corresponding relative percentage weight, shall be added and later on reflected in the Summary of Ratings along with ratings for the other aspects covered.

However, in case there are on-going or completed additional works not yet covered by an approved variation order or request for time extension which is not yet approved during the visit, the CPE using a separate form shall fill up all relevant portions such as the Rate column for the workmanship and material aspects, time and resource deployment. The ratings therewith shall be used in updating the appropriate form, either Part II or III, only upon approval of the variation order or time extension.

For Part II, the CPE after completing the Summary of Ratings shall compute the "During Construction" Weighted Rating (A). This can be computed by adding all of the Ratings obtained for each visit during construction phase, dividing the sum of Ratings by the number of visits made, and then multiplying the quotient by sixty (60%) for horizontal projects or seventy (70%) for vertical projects.

#### 11.3 Part III - Rating Sheet Upon Completion and Summary Sheet

For Part III, which will be used for the "upon completion" visit, the CPE shall list the items of work evaluated and their corresponding percentage weights and relative percentage weights, and their rates and relative rates for the workmanship aspect. After adding all of the relative rates, the sum along with the ratings for the time and materials aspects shall be reflected in the Summary of Ratings.

To determine the "upon completion" Weighted Rating (B), the CPE shall multiply the Total Rating by forty percent (40%) for horizontal projects and thirty percent (30%) for vertical projects. The Over-all Rating, on the other hand, shall be computed by adding the "during construction" Weighted Rating (A) and "upon completion" Weighted Rating (B) and multiply the sum by one hundred percent (100%).

The CPE head and members, resource persons/and witnesses present during each visit shall always affix their signature in the spaces provided for in Parts II and III.

After the over-all CPES rating of the constructor has been computed, this shall be reflected in the box marked "Qualitative Description" based on the range of constructor's CPES rating for the specific project undertaken. Annex 8 shall be revised by the CIAP's PDCB to indicate the new ranges of CPES ratings and their equivalent qualitative descriptions, as follows:

CPES Qualitative	Ranges of CPES
<b>Description</b>	Rating
Outstanding	> 96%
Very Satisfactory	> 89% <u>&lt;</u> 96%
Satisfactory	> 82% <u>&lt;</u> 89%
Unsatisfactory	> 75% ≤ 82%
Poor	< 75%

#### 11.4 CPES Checklists

The checklists for each indicator are made to aid the accredited CPEs in the objective evaluation of constructors' performance. These checklists are coded mainly for data banking purposes.

#### a. Checklist for Workmanship

For identification purposes, the checklist for workmanship for Road, Bridge, Housing, Building, Port and Harbor are coded with letters RBWS, HBWS, and PHWS, respectively. The first two letters refer to type, e.g. RB stands for Road and Bridge, and WS refers to workmanship.

The checklists for Workmanship for Road and Bridge, Housing and Building, Port and Harbor, Irrigation, Flood Control, Power Transmission Line, Substation, Mooring Facilities for Power Barges and Diesel Power Plant and <u>Site Development</u> Projects are contained in Annex 2.

The CPE shall select from the checklists those items of work which are applicable for evaluation/assessment. Indicators are set for each items of work but the CPE may add other indicators in the blank spaces provided for. All additional indicators shall be submitted to CIAP for coding purposes.

The checklists for workmanship in Annex 2 shall be revised by the CIAP's PDCB to reflect, among others, specific indicators for major and minor defects, and additional indicators as needed.

The CPE shall evaluate/assess the pre-determined spots based on the indicators set for each item of work. If there is non-compliance, the CPE shall determine if such is a major or minor defect. If an indicator is not applicable, the CPE should place NA (not applicable) at results box.

Defects are considered major on the following basis:

- 1. Entail losses to the government;
- 2. Seriously affect the stability of the structure;
- 3. Cause severe damage to the aesthetics (depends on the items of work involved).

Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).

Determining Results, Score, Total Score and Rate.

- a.1 Determine the number of non-compliance or full compliance per indicator
- a.2 Results = Compliance / Number of spots
- a.3 Score = Results x 0.40 (During Construction); Score = Results x 0.50 (Upon Completion)
- a.4 Total Score = Sum of all the scores
- a.5 Rate of an Item of Work = Total Score (a)/No. of Indicator (b)

#### b. Checklist for Materials

The checklist for Materials is contained in Annex 3 and starts with MAT followed by the blank space which is for the corresponding number of the item of work being evaluated. There are five (5) indicators for this aspect and all indicators shall be rated. Compliance to each indicator means full score of one (1) and noncompliance means score of zero (0).

If the constructor complies with indicator number 1 which is compliance to test requirements, then the remaining four (4) indicators need to be evaluated. If the constructor does not comply with indicator number 1, however, the remaining four (4) indicators shall also be evaluated for CAR purposes but the final rating is automatic zero (0).

If a work item does not require the use of materials (e.g. demolition of existing structure, excavation, or scraping), the constructor automatically gets 0.30 during construction and 0.20 upon completion in this aspect provided he gets the full rating in

the workmanship aspect for such work item. However, if the particular item of work was not done or inadequately complied with, the rating for materials shall be 0.00. Furthermore, when a particular item of work was not rated since it is no longer visible and cannot be verified, the material aspect for such item of work shall not be rated.

Determining Results, Score, Total Score and Rate.

- a.1 Results = If indicator is complied (C) = 1 and if not complied (NC) = 0
- a.2 Score = Compliance = 1 x 0.30 (During Construction);
   Score = Compliance = 1 x 0.20 (Upon Completion);
   Score = Non-Compliance = 0 x 0.00
- a.3 Total Score = Sum of all the Score (a)
- a.4 Determine number of indicators = 5 (b)
- a.5 Rate = Total Score (a) / No. of Indicators (b)

#### c. Checklist for Time

The checklist for Time is contained in Annex 4. Part One is for "During Construction" and Part Two is for "Upon Completion". The checklist shall be revised by the CIAP's PDCB to incorporate the new procedure for scoring of Time aspect which is through "calibration" instead of "bracketed" during construction phase.

#### For Part One – "During Construction" Form

Determining Results, Score and Rate

- a.1 Deduct the corresponding percentage of delay from 15% which is the maximum score for Time. The result is the score.
- a.2 Rate is equal to score (Rate = Score)

#### For Part Two – Upon Completion Form

The checklist shall be revised by the CIAP's PDCB to incorporate the amendment during "Upon Completion" phase.

Determining Results, Score and Rate

a.1 Deduct the corresponding percentage of delay from 10% which is the maximum allowable negative slippage multiplied by 0.30 which is the maximum score for Time divided by 10. The result is the score.

**Use this formula for Determining Results, Score and Rate** 

$$S = (10\% - \% \text{ delay}) \times 0.30$$

10

Where : 10% is the maximum allowable slippage

0.30 is the maximum score for time

S is the score

# a.**2** Rate is equal to the score. (Rate = Score)

#### d. Checklist for Facilities

The checklist for Facilities is contained in Annex 5. The CPE should verify from the site if the indicators set for facilities are complied (C) or not complied (NC). Compliance means score of one (1) and non-compliance means score of zero (0). The CPE shall select only the indicators which are applicable.

Determining Results, Score, Total Score and Rate

- a.1 Results = If indicator is complied (C) = 1 or not complied (NC) = 0.
- a.2 Score = Compliance = 1 x 0.03; Non-compliance = 0 x 0.00
- a.3 Total Score = Sum of all the Scores (a).
- a.4 Determine number of indicators = 5 (b).
- a.5 Rate = Total Score (a) / No. of Indicators (b).

# e. Checklist for Environmental, Safety and Health (ESH)

The checklist for ESH is contained in Annex 6. These were lifted from Department Order (DO) No. 13, series of 1998 of the Department of Labor and Employment (DOLE) entitled Guidelines Governing Occupational Safety and Health in the Construction Industry. The CPE should verify if each indicator set for this aspect is being strictly implemented by the constructor. The CPE shall select only the indicators which are applicable.

Determining Results, Score, Total Score and Final Rating

- a.1 Results = If indicator is complied (C) = 1 and if not complied (NC) = 0.
- a.2 Score = Compliance = 1 x 0.07; Non-compliance = 0 x 0.00
- a.3 Total Score = Sum of all the Scores (a).
- a.4 Determine number of indicators = 16 (b).
- a.5 Rate = Total Score (a) / No. of indicators (b).

#### f. Checklist for Resources Deployment

The checklist for Resources Deployment is contained in Annex 7. The CPE should check the actual deployment of resources (materials, manpower and equipment) and verify if the constructor complies or does not comply as per latest approved resources schedule. All indicators shall be rated.

Determining Results, Score, Total Score and Rate

- a.1 Results = If indicator is complied (C) = 1 and if not complied (NC) = 0.
- a.2 Score = Compliance =  $1 \times 0.05$ ; Non-compliance =  $0 \times 0.00$
- a.3 Total score = Sum of all the scores (a)
- a.4 Determine number of indicators = 3 (b)
- a.5 Rate = Total Score (a)/No. of Indicators (b)

# 11.5 Corrective Action Request (CAR)

The CPE shall issue CARs to the constructor for each finding of non-conformance, using the form attached as Annex 9. The IO shall approve and monitor the implementation of the corrective action plan submitted by the constructor.

#### 11.6 Constructors Performance Summary Report

The CPEs shall process and summarize all their findings on the project in the Constructor's Performance Summary Report (Annex 10) and submit it to CPES-IU. The CPES-IU shall review and finalize the report prior to submission to the CIAP and other departments within the agency for data banking and other purposes.

#### 12. INFORMATION UTILIZATION AND DATA BANKING

The CPES rating and other information contained in the authenticated copies of Constructors Performance Summary Report (Annex 10) to be regularly provided by government agencies concerned to CIAP's PDCB and centrally maintained by the same shall be made available to all interested users either electronically or in hard copy/diskette.

Pursuant to Section 12 (5), Annex E of the IRR of R.A. 9184, and to provide for a common and uniform application by all heads of agencies and instrumentalities of the national government, including government-owned and/or controlled corporations (GOCCs), government financial institutions (GFIs), state universities and colleges (SUCs), and local government units (LGUs), the CPES rating results shall be used for, but not limited to, the following purposes:

- 12.1 Eligibility Check of Constructors The CPES rating shall form part of the requirements of the Bids and Award Committees (BACs) for eligibility check in the procurement of infrastructure projects pursuant to Section 23.5.2.4 of the IRR of R.A. No. 9184, which provides that the Owner's Certificate of Final Acceptance; or the Constructors Performance Evaluation System (CPES) Final Rating and/or Certificate of Completion, must be satisfactory.
- 12.2 Agency Shortlist The CPES rating shall be considered in the shortlisting and selection of constructors for Negotiated Procurement under Section 53.1; 53.2; 53.3; 53.4 of the IRR of RA 9184. Constructors with CPES ratings of at least "Satisfactory" may be considered by the BAC in the shortlist of eligible constructors to be invited for negotiation pursuant to Section 54.2 of the IRR of R.A. No. 9184.
- 12.3 **Post-Qualification** The CPES rating shall be used in the review of the technical capabilities of a constructor-bidder during the post-qualification stage pursuant to Section 34.3.b.ii of the IRR of RA 9184 which requires the agency to "check the performance of the bidder in its on-going government and private contracts." For this purpose, the BACs shall ensure that the following conditions are met:

- a) The constructor must not have a zero (0) rating for "Time" for ongoing projects; and
- b) The constructor must have a CPES rating of at least "Satisfactory" in all of his on-going projects.

The following shall guide the applicability/non-applicability of below Satisfactory CPES on-going rating during post-qualification for purposes of contract award:

- 1. When there is a second/final CPES evaluation conducted in a project, the latest CPES rating shall be considered.
- 2. When there is no final CPES rating on a project but has been completed and issued a Certificate of Satisfactory Completion by the project owner, the CPES on-going rating shall be disregarded.
- 3. When a project was terminated as determined in the supporting documents from the project owner, the following conditions shall be applied:
  - a) the CPES on-going rating shall be disregarded if termination is not due to the constructors' fault, and
  - b) the CPES on-going rating shall be considered if termination is due to the constructors' fault,

The guidelines on the Termination of Contracts shall apply in terminating a project.

- 4. When a second/final CPES evaluation has not been conducted after one (1) year from the date of latest CPES rating on on-going project in spite of constructors' written request, the disqualification of a constructor arising from below Satisfactory CPES rating of on-going project may be lifted at the discretion of the agency concerned. However, the said constructor may also be allowed by other agencies to participate in the bidding process and award of contract at their own discretion.
- 12.4 Awarding of Contracts The CPES ratings may be used by the agencies as additional reference to ensure appropriate awarding of contract.
- 12.5 Issuance of Certificate of Completion for Projects Subjected to CPES Evaluation - The CPES Rating shall be used as basis for the issuance of the Certificate of Completion of projects evaluated using the CPES. If applicable, the concerned Implementing Office of each government agency is required to check compliance of constructors to all the Corrective Action Requests (CARs) recommended by the

accredited CPES evaluators and issued by the Implementing Agency. The constructors' compliance with all the CARs issued and other requirements of the project owner shall be the basis for the issuance of the Certificate of Completion.

- 12.6 **Project Monitoring and Control** The CPES rating/information shall be used by agencies as a reference for project monitoring, audit, and quality control in ensuring the following, among others: a) compliance with contract provisions and specifications; b) prompt and effective action on problems encountered; c) compliance with safety and health regulations and d) compliance with environmental regulations.
- 12.7 **Blacklisting of Constructors** A constructor with a CPES rating of "Poor" or "Unsatisfactory" in any of his projects shall be blacklisted from participating in any government project in accordance with Section 4.2 (f) of the GPPB Guidelines for Blacklisting of Constructors.
- 12.8 **Policy Formulation/Review** The CPES rating and other related information shall serve as reference materials in the formulation and review of policies and procedures pertaining to, among others, eligibility check, bidding, award and contract implementation.
- 12.9 **Industry Planning** The CPES rating and other information shall serve as additional reference by the agency's Planning Department/Division, and the CIAP and PDCB in the preparation of plans and programs for the development of the construction sector, including measures to improve constructor's performance in government projects.
- 12.10 **Granting of Awards & Recognition** Constructors with CPES ratings of "Outstanding" shall be considered for awards and/or recognition for outstanding performance. For this purpose, the agency's CPES-IU and CIAP's PDCB shall ensure that the following conditions are met:
  - a. The nominee must have at least three (3) projects with a consistent CPES final rating of "Outstanding (at least 96%)" within the period of review which is 3 years;
  - b. Projects already included in previous nominations shall no longer be considered;
  - c. No final CPES ratings of "Poor" and/or "Unsatisfactory" for the period under evaluation; and
  - d. The nominee has fully complied with and passed the CPES requirement on environmental, safety, and health concerns which include the submission to, and approval by, the DOLE of the Constructor's Construction Safety and Health Program.

The list of constructors who are awardees and granted recognition shall be posted conspicuously in the bulletin boards of government agencies and the GPPB's website. CIAP's PDCB shall issue Certificates of Recognition to constructors with consistent CPES final ratings of "Outstanding".

12.11 **PCAB Registration and Classification** - When applicable, the CPES ratings shall form part of the requirements for Registration and Classification of government constructors pursuant to the guidelines to be issued by the PCAB.

#### 13. APPLICABILITY

These guidelines shall be applied to all constructors of all national government agencies, department, bureau, office, or instrumentality of the Government, including government-owned and/or controlled corporations (GOCCs), government financial institution (GFIs), state universities and colleges (SUCs), and local government units (LGUs) undertaking infrastructure projects.

Private entities may also use these guidelines to evaluate their constructors' project performance.

# 14. EFFECTIVITY

These guidelines shall become effective upon approval by the National Economic and Development Authority (NEDA) Board's Committee on Infrastructure (INFRACOM) and fifteen (15) days after publication by CIAP.

#### LIST OF ACRONYMS

AMO - Authorized Managing Officer

2. BAC - Bids and Award Committee

3. CAP - Corrective Action Plan

4. CAR - Corrective Action Request

5. CIAP - Construction Industry Authority of the Philippines

6. CPE - Constructors' Performance Evaluator

7. CPES - Constructors' Performance Evaluation System

8. DOLE - Department of Labor and Employment

9. ESH - Environmental, Safety and Health

10. GFIs - Government Financial Institutions

11. GOCCs - Government-Owned and/or Controlled Corporations

12. GPPB - Government Procurement Policy Board

13. INFRACOM - NEDA Board Committee on Infrastructure

14. IO - Implementing Office

15. IU - Implementing Unit

16. LGU - Local Government Unit

17. NEDA - National Economic and Development Authority

18. NGAs - National Government Agencies

NTP - Notice to Proceed

20. PAP - Preventive Action Plan

21. PCAB - Philippine Contractors Accreditation Board

22. PDCB - Philippine Domestic Construction Board

23. PE - Project Engineer

24. STE - Sustaining Technical Employee

25. SUCs - State Universities and Colleges

#### **List of Annexes**

Annex 1 - CPES Functional/Deployment Flowchart

Annex 2 - Checklists for Workmanship

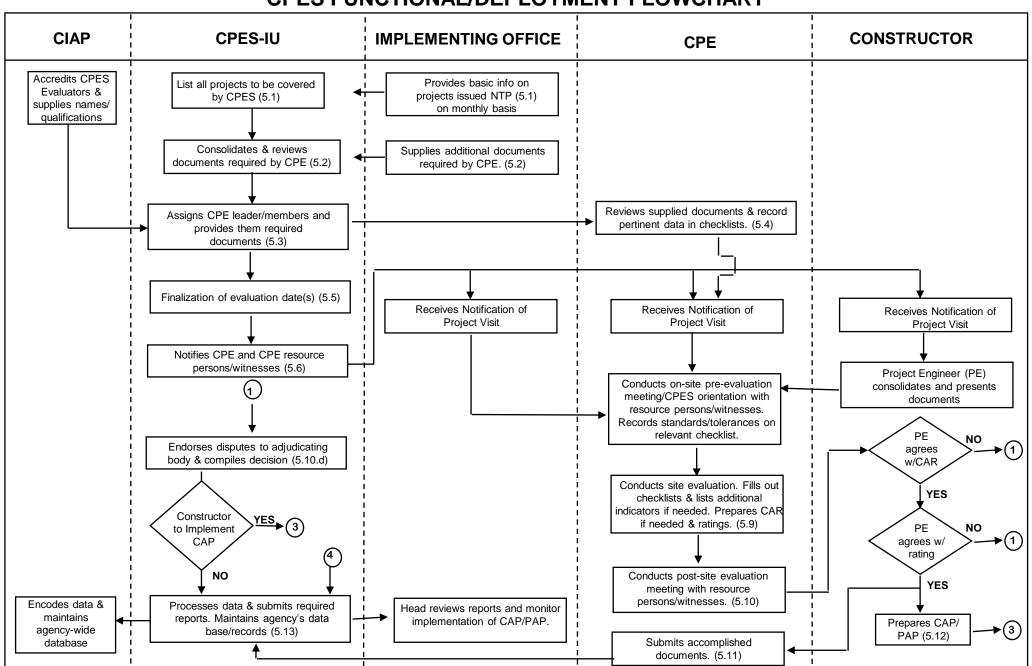
- A. Road and Bridge Projects
- B. Housing and Building Projects
- C. Port and Harbor Projects
- D. Irrigation Projects
- E. Flood Control Projects
- F. Power Transmission Line Projects
- G. Substation Projects
- H. Diesel Power Plant Projects
- I. Mooring Facilities for Power Barges Projects
- J. Site Development Projects
- Annex 3 Checklist for Materials
- Annex 4 Checklist for Time
- Annex 5 Checklist for Facilities
- Annex 6 Checklist for Environmental, Safety and Health (ESH)
- Annex 7 Checklist for Resources Deployment
- Annex 8 CPES Evaluation Form
- Annex 9 Corrective Action Request (CAR) Form
- Annex 10 Constructors Performance Summary Report
- Annex 11 Schedule of Minimum Test Requirements Governing Items of Work of the DPWH Standard Specifications for Highways, Bridges and Airports, 1995 (Vol. II)

Schedule of Minimum Test Requirements Governing Items of Work of the DPWH Standard Specifications for Highways, Bridges and Airports Using Test Requirements as Practiced by the National Transmission Corporation (TRANSCO) for Power Transmission Line and Substation Projects

Annex 12 - List of Philippine National Standards (Construction Materials) for Mandatory Implementation

# ANNEX 1 CPES FUNCTIONAL/DEPLOYMENT FLOWCHART

# CPES FUNCTIONAL/DEPLOYMENT FLOWCHART



# ANNEX 2

# **CHECKLISTS FOR WORKMANSHIP**

- A. ROAD AND BRIDGE PROJECTS
- **B. HOUSING AND BUILDING PROJECTS**
- C. PORT AND HARBOR PROJECTS
- D. IRRIGATION PROJECTS
- E. FLOOD CONTROL PROJECTS
- F. POWER TRANSMISSION LINE PROJECTS
- G. SUBSTATION PROJECTS
- H. DIESEL POWER PLANT PROJECTS
- I. MOORING FACILITIES FOR POWER BARGES PROJECTS
- J. SITE DEVELOPMENT PROJECTS

# ANNEX 2-A

# CHECKLIST FOR ROAD AND BRIDGE

Item 100	Clearing and Grubbing	2A-1
Item 101	Removal of Structure and Obstruction	2A-1
Item 102	Excavation	2A-1
Item 103	Structure Excavation	2A-1
Item 104	Embankment	2A-1
Item 105	Subgrade Preparation	2A-1
Item 106	Compaction Equipment and Density Control Strips	2A-1
Item 107	Overhaul	2A-1
Item 200	Aggregate Subbase Course	2A-2
Item 201	Aggregate Base Course	2A-2
Item 202	Crushed Aggregate Base Course	2A-2
Item 203	Lime Stabilized Road Mix Base Course	2A-2
Item 204	Portland Cement Stabilized Road Mix Base Course	2A-2
Item 205	Asphalt Stabilized Road Mix Base Course	2A-2
Item 206	Portland Cement Treated Plant Mix Base Course	2A-2
Item 300	Aggregate Surface Course	2A-2
Item 301	Bituminous Prime Coat	2A-3
Item 302	Bituminous Tack Coat	2A-3
Item 303	Bituminous Seal Coat	2A-3
Item 304	Bituminous Surface Treatment	2A-3
Item 305	Bituminous Penetration Macadam Pavement	2A-3
Item 306	Bituminous Road Mix Surface Course	2A-3
Item 307	Bituminous Plant Mix Surface Course – General	2A-3
Item 308	Cold Asphalt Plant Mix	2A-3
Item 309	Bituminous Plant Mix (Stockpile Maintenance Mixture)	2A-3
Item 310	Bituminous Concrete Surface Course, Hot Laid	2A-3
Item 311	Portland Cement Concrete Pavement	2A-4
Item 400	Piling (Timber)	2A-5
Item 400	Piling (Steel)	2A-6
Item 400	Piling (Concrete)	2A-7
Item 401	Railings (Steel, Timber)	2A-8
Item 401	Railings (Masonry, Concrete)	2A-9
Item 402	Trowelled	2A-9
Item 403	Metal Structures	2A-10
Item 500	Pipe Culverts and Storm Drains	2A-1
Item 502	Manhole Inlets and Catch Basins	2A-1
Item 504	Cleaning and Reconditioning of Existing Drainage Structures	2A-1
Item 505	Riprap and Grouted Riprap	2A-12
Item 506	Stone Masonry	2A-12
Item 507	Rubble Concrete	2A-12
Item 508	Hand-laid Rock Embankment	2A-12
Item 509	Sheet Piles (Steel)	2A-13
Item 509	Sheet Piles (Concrete)	2A-14
Item 509	Sheet Piles (Timber)	2A-15
Item 510	Concrete Slope Protection	2A-16
Item 511	Gabion and Mattresses	2A-17
Item 602	Monuments, Markers and Guide Posts	2A-17
Item 603	Guardrail (Steel/Aluminum, Concrete, Timber)	2A-18
Item 603	Guardrail (Masonry)	2A-19
Item 604	Fencing	2A-20
Item 605	Road Signs	2A-20
Item 606	Pavement Markings	2A-20
Item 607	Reflective Pavement Studs	2A-20
Item 608	Topsoil	2A-20
Item 609	Spriggings	2A-20

Item 610	Sodding	2A-20
Item 611	Tree Planting	2A-20
Item 900	Formworks	2A-21
Item 901	Reinforcing Steel Bars	2A-21
Item 902	Concrete Works	2A-22
Item 903	Shotcrete	2A-23

PROJECT ID/N	IO.: PROJECT TYPE: Road	ITEM: E	arthworks	
VISIT	LOCATION:	DATE C	OF VISIT: /	/
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 100 Clearing 8	Grubbing, Item 101 Removal of Structure and Obstruction			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-1001	Proper removal of undisputed stumps roots and non-perishable solid objects/structures, vegetation, debris,tree and other obstructions (within carriageway)	/	X	
Minor				
RBWS-1001	Proper removal of undisputed stumps roots and non-perishable solid objects/structures, vegetation, debris,tree and other obstructions (outside carriageway)	/	X	
RBWS-1002	Conformance to proper disposal	/	=X	
		/	X	
Item 102 Excavatio	n, Item 103 Structure Excavation			
Major				
RBWS-1001	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (if no longer correctible, e.g., with in- placed structure)	/	X	
Minor				
RBWS-1001	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (correctible)	/	=X	
RBWS-1002	Adherence to proper construction methodology	/	=X	
RBWS-1003	Conformance to proper disposal	/	=X	
		/	=x	
	ent, Item 105 Subgrade Preparation			
<b>Major</b> RBWS-1001	Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 105 not undertaken)	/	x	
RBWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions (if no longer correctible, e.g., with in-	/	x	
	placed structure) Adherence to compaction procedure and required equipment (if no longer		= X	
RBWS-1003	correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid)	/	=	
Minor				
RBWS-1001	Adherence to proper construction methodology	/	=X	
RBWS-1002	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (correctible)	/	=X	
RBWS-1003	Adherence to compaction procedure and required equipment (correctible)	/	=X	
		/	X	
•	on Eqpt. & Density Control Strips, Item 107 Overhaul			
Major	Hauling distance for every stad materials alsigned/sensidered every sul-			
RBWS-1001	Hauling distance for excavated materials claimed/considered overhaul beyond freehaul distance	/	=x	
		/	=X	OAD Table
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

ITEM:Base & Sub-Base Course

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: Road

VISIT	LOCATION:	DATE O	F VISIT: //	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Course, 202 Crushe Cement Stabilized I	COURSE / Item 200, Aggregate Sub-Base Course, Item 201 Agg. Base and Aggregate Base, 203 Lime Stabilized Road Mix Base, 204 Portland Road Mix Base, 205 Asphalt Stabilized Road Base, 206 Portland ant Mix Base, 300 Aggregate Surface Course.			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects		
RBWS-2001	Conformance of in-placed materials to plans and specifications	/	=X	
RBWS-2002	Adherence to proper construction methodology (if no longer correctible, e.g., layering)	/	=X	
RBWS-2003	Conformance w/ approved/specified tolerances on lines, grades, cross- section, thickness, elevation, dimensions & plans (if no longer correctible, e.g., not extended to shoulder and other succeeding items are already in- placed)	/	x	
RBWS-2004	Conformance to the required compaction	/	X	
Minor				
RBWS-2001	Conformance of in-placed materials to plans and specifications	/	=X	
RBWS-2002	Conformance to required layering	/	X	
RBWS-2003	Conformance w/ approved/specified tolerances on lines, grades, cross-section, thickness, elevation, dimensions & plans (correctible)	/	X	
RBWS-2004	Conformance to the required compaction	/	=X	
RBWS-2005	Sub-base/Base extended to shoulders	/	=X	
RBWS-2006	Non-occurrence of subbase settlement/upheaval	/	=X	
RBWS-2007	Provision of required stakes	/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	X	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
	& Date: / /		=	
Lintered by	Date. / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N	IO.: PROJECT TYPE: Road LOCATION:		Surface Course OF VISIT: /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 301 Bituminou Seal Coat	s Prime Coat, Item 302 Bituminous Tack Coat, Item 303 Bituminous			
Major				
RBWS-3001	Conformance of in-placed materials to plans and specifications	/	x	
RBWS-3002	Observance of the required drying time	/	x	
Minor				
RBWS-3003	Conformance to the required rate and method of application	/	=X =x	
		/	=	
		/	X	
Rd. Mix Surface Co	is Surface Treatment, 305 Bit. Penetration Macadam Pavement, 306 Bit. ourse, 307 Bit. Plant Mix Surface Course, 308 Bit. Plant Mix Surface ant Mix (Stockpile Maintenance Mixture), 310 Bituminous Concrete ot Laid)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	3	
RBWS-3001	Conformance of in-placed materials to plans and specifications	/	=x	
RBWS-3002	Monitoring/checking of temperature mix prior to placing/spreading/compaction	/	=x	
RBWS-3003	Conformance to the temperature requirement	/	=x	
RBWS-3004	No alligator and longitudinal cracks	/	=x	
RBWS-3005	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (>10% deficient)	/	X	
RBWS-3006	No bleeding on asphalt pavement (> 1 sq. m.)	/	X	
RBWS-3007	No upheaval (severe and needs R/R)	/	=x	
RBWS-3008	No ravelling (severe and needs R/R)	/	X	
Minor				
RBWS-3005	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (≤10% deficient)	/	x	
RBWS-3006	No bleeding on asphalt pavement (≤1 sq.m)	/	=X	
RBWS-3007	No upheaval	/	=x	
RBWS-3008	No ravelling	/	=X	
RBWS-3009	No temperature cracks	/	=X	
RBWS-3010	Conformance to the required density	/	=X	
		/	=X	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/N VISIT	IO.: PROJECT TYPE: Road LOCATION:		urface Course )F VISIT: /	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 311 Portland C	Cement Concrete Pavement (PCCP)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-311-01	No longitudinal cracks	/	x	
RBWS-311-02	Conformance to vibration requirement	/	X	
RBWS-311-03	Conformance to quality of concrete mix	/	=X	
RBWS-311-04	Conformance to requirements of construction joints (outside middle thirds)	/	=X	
RBWS-311-05	No through cracks (all types of cracks)	/	=X	
RBWS-311-06	No scaling (severe, needs Removal and Replacement)	/	x	
RBWS-311-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (>10% deficient)	/	=x	
Minor				
RBWS-311-05	No cracks e.g. transverse, diagonal, temperature, corner, restraint	/	=x	
RBWS-311-06	No scaling	/	=x	
RBWS-311-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (<10% deficient)	/	=X	
RBWS-311-08	No honeycomb	/	=X	
RBWS-311-09	No spalling	/	=X	
RBWS-311-10	No chipped-off edges	/	=X	
RBWS-311-11	Conformance to required size, location & spacing of tie bars and dowel bars as per specifications	/	=X	
RBWS-311-12	Conformance to proper curing procedures	/	=x	
RBWS-311-13	Utilization of templates prior to pouring	/	x	
RBWS-311-14	Conformance to placing requirement which will not result to segregation of aggregates, cold joints, misalignment	/	=x	
RBWS-311-15	Conformance to required amount of asphalt sealant on weakened plane joints (insufficient and excessive application)	/	=X	
RBWS-311-16	Conformance to requirement of pavement blockings (include depths and widths of weakened plane joints)	/	=X	
RBWS-311-17	No hardened/spilled concrete on pavement	/	=X	
RBWS-311-18	No pokemarks/tire marks/animal footmarks/skid marks, etc.	/	=X	
RBWS-311-19	Conformance to proper finishing of concrete (brooming)	/	=X	
RBWS-311-20	Conformance to formworks requirements (wooden, defective steel and not applied with oil/grease)	/	=X	
		/	=x	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	

PROJECT ID/N VISIT	IO.: PROJECT TYPE: Bridge LOCATION:		ITEM: Piling DATE OF VIS	IT: / /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 400 Piling 400-1 Timber Pile				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-400-1-01	Conformance of in-placed materials to plans and specifications	/	X	
RBWS-400-1-02	Conformance to construction methodology (installation, location and type)	/	X	
RBWS-400-1-03	Conformance to splicing requirements	/	X	
RBWS-400-1-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
RBWS-400-1-05	Piles provided with gradation marks (driven)	/	x	
Minor			_	
RBWS-400-1-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (<20 mm / m), elevation, location (<150 mm) & spacing	/	x	
RBWS-400-1-05	Piles provided with gradation marks (stockpile)	/	X	
RBWS-400-1-06	Conformance to approved/specified tolerances for length, width, thickness and or diameter	/	=x	
RBWS-400-1-07	No loose knots, decay, splits, worm holes, and warp	/	X	
RBWS-400-1-08	Non-splintering/brooming of timber pile end beyond specified allowance	/	=x	
RBWS-400-1-09	No cracks	/	X	
RBWS-400-1-10	Provision of pile cap	/	=x	
		/	X	
		/	=x	
		/	=X	
		/	X	
		/	=x	
		/	X	
		/	X	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate =	

PROJECT ID/N	NO.: PROJECT TYPE: Bridge LOCATION:		ITEM: Piling DATE OF VIS	SIT: / /
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
400-2 Steel Piles				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	5	
RBWS-400-2-01	Conformance of in-placed materials to plans and specifications	/	X	
RBWS-400-2-02	Conformance to construction methodology (installation, location and type)	/	X	
RBWS-400-2-03	Conformance to splicing requirements	/	x	
RBWS-400-2-04	Conformance to the required length, width, thickness, and/or diameter	/	X	
RBWS-400-2-05	Piles provided with gradation marks (driven)	/	x	
RBWS-400-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
Minor				
RBWS-400-2-05	Piles provided with gradation marks (stockpile)	/	X	
RBWS-400-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	x	
RBWS-400-2-07	No corrosions on steel piles	/	X	
RBWS-400-2-08	No deformation on steel piles	/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
Was subcontracto	or used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
			<u> </u>	J

PROJECT ID/N	IO.: PROJECT TYPE: Bridge LOCATION:		ITEM: Piling DATE OF VIS	IT: / /
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
400-3 Concrete P	ile (see Common Items of Work for checklist			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	6	
RBWS-400-3-01	Conformance of in-placed materials to plans and specifications	/	X	
RBWS-400-3-02	Conformance to construction methodology (installation, location and type)	/	= X =	
RBWS-400-3-03	Conformance to splicing requirements	/	X	
RBWS-400-3-04	Conformance to the required length, width, thickness, and/or diameter	/	X	
RBWS-400-3-05	Provision of pile shoe	/	X	
RBWS-400-3-06	No through cracks			
RBWS-400-3-07	No honeycomb (exposed rebars/aggregates)	/	=x	
RBWS-400-3-08	Piles provided with gradation marks (driven)	/	X	
RBWS-400-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	x	
Minor				
RBWS-400-3-06	No cracks	/	X	
RBWS-400-3-07	No honeycomb	/	X	
RBWS-400-3-08	Piles provided with gradation marks (stockpile)	/	=X	
RBWS-400-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm), spacing & champering	/	x	
RBWS-400-3-10	Conformance to specified curing on casted RC piles	/	X	
RBWS-400-3-11	Conformance to casting length	/	X	
RBWS-400-3-12	Conformance to required lifting procedure	/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate =	

PROJECT ID/N	IO.: PROJECT TYPE: Bridge LOCATION:		ITEM: Railings DATE OF VIS	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 401 Railings 401-1 Steel Railin				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-401-1-01	Conformance of in-placed materials to plans & specifications	/	=X	
RBWS-401-1-02	Conformance to alignment & jointing requirement	/	=x	
RBWS-401-1-03	No corrosion	/	X	
Minor				
RBWS-401-1-03	No rust	/	=X	
RBWS-401-1-04	No damage to painting and galvanized coating	/	=x	
RBWS-401-1-05	Adequacy of bolts and nuts	/	x	
RBWS-401-1-06	Conformance to finishing requirement	/	=X	
		/	X	
		/	x	
		/	x	
		/	x	
		/	= x	
		/	= X	
401-2 Timbor Pai	lings		=	
401-2 Timber Rai Major	illigs			
RBWS-401-2-01	Conformance of in-placed materials to plans & specifications	/	X	
RBWS-401-2-02	Conformance to alignment & jointing requirement	/	X	
Minor				
RBWS-401-2-03	No splitting of timber	/	x	
RBWS-401-2-04	Free from any form of damages	/	X	
RBWS-401-2-05	Provision of wood preservatives e.g. oils, creosote-oil, etc.	/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	= X	
			= Total Score (a)	CAR Total
Was subcontracto	r used? If yes, name of company and owner: &		= No. of Indicators (b)	
Entered bv:	Date: / /		= Rate = (a) / (b)	
,			= Rate	
			=	

PROJECT ID/N VISIT	IO.: PROJECT TYPE: Bridge LOCATION:		ITEM: Railings DATE OF VIS	s IT: / /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
401-3 Masonry R	ailings			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	jor Defects	3	
RBWS-401-3-01	Conformance of in-placed materials to plans & specifications	/	X	
RBWS-401-3-02	Conformance to required alignment	/	X	
RBWS-401-3-03	Conformance to required quality of mortar mix, CHB, stones,	/	x	
Minor	aggregates & boulders		=	
RBWS-401-3-03	No cracks	/	X	
RBWS-401-3-04	Sufficiency of mortar	/	x	
		/	x	
		/	= X	
		/	= X	
401-4 Concrete	Railings (see Common Items of Work for checklist for	,	=	
Formworks, RSB				
Major				
RBWS-401-4-01	Conformance of in-placed materials to plans & specifications	/	=X	
RBWS-401-4-02	Conformance to required alignment	/	X	
RBWS-401-4-03	Conformance to required quality of concrete mix			
Minor				
RBWS-401-4-04	Conformance to finishing requirements	/	=X	
RBWS-401-4-05	No cracks	/	=X	
		/	X	
		/	X	
		/	x	
Item 402 Trowelle	ed			
RBWS-402-01	Smooth and even floor finish	/	x	
RBWS-402-02	No temperature cracks	/	x	
RBWS-402-03	No sign of deflection/settlement	/	= x	
	1	/	= X	
		/	= X	
			= Total Score (a)	CAR Total
Was subcontracto	r used? If yes, name of company and owner: &		= No. of Indicators (b)	
Entered by:			= Rate = (a) / (b)	
o.ou by			=	
			Rate	

PROJECT ID/N VISIT	IO.: PROJECT TYPE: Bridge LOCATION:		ITEM: Metal S DATE OF VIS	
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 403 Metal St	tructures			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects	S	
RBWS-403-01	Structural steel conforms to the required size and dimension as per specification	/	=X	
RBWS-403-02	No corrosion (conditon that already affects structural soundness)	/	=X	
RBWS-403-03	No sagging/deflection (beyond 50% of the maximum tolerance)	/	=X	
RBWS-403-04	Conformance to proper installation/assembly	/	=X	
RBWS-403-05	Conformance to the required number of bolts/rivets as per plan	/	=X	
RBWS-403-06	Conformance to the required size and dimension for welding	/	=X	
RBWS-403-07	Fasteners, anchor bolts, base plates, bolts/nuts and washers conforms to specified size and dimension	/	X	
		/	=X	
Minor			V	
RBWS-403-02	No rust/corrosion	/	=X	
RBWS-403-03	No sagging/deflection (within 50% of the maximum tolerance)	/	=X	
RBWS-403-08	Provided with appropriate paints (primer and surface coatings) in accordance with the specifications	/	=X	
RBWS-403-09	Structural members are true to line and free from twist, bends and open joints	/	=X	
RBWS-403-10	Pin holes/fastener holes (bolts & rivets) conforms to the required diameter as per specification	/	=X	
RBWS-403-11	Rivets are installed according to proper procedure per specifications	/	=X	
RBWS-403-12	Bolts are tightened to at least the minimum bolt tension, or at a required tension per specification	/	=X	
RBWS-403-13	Conformance to use of appropriate tightening tools	/	=X	
RBWS-403-14	Conformance to proper splicing/jointing	/	X	
RBWS-403-15	Provision of camber for truss/beams/girder	/	X	
RBWS-403-16	Complete number of bolts/rivets installed	/	=X	
RBWS-403-17	Painted metal surface are free of loose and bubbled paints, etc.	/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	
			B	

PROJECT ID/N			ope Protection / //	
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
<u> </u>	INDICATORS		_	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	ulverts & Storm Drains			
<i>Major</i> RBWS-500-01	Conformance to the required/approved tolerance for slope,		v	
Minor	alignment, elevation and dimensions	/	=X	
RBWS-500-02	No cracks, honeycombs, chipping of edges	/	x	
RBWS-500-03	Compliance to joint mortar mixing proportions	/	= x	
RBWS-500-04	Sufficient collaring and flushing	/	= x	
RBWS-500-05	Compliance to the required thickness, compaction & materials	/	= x	
RBWS-500-06	requirement of gravel bedding  Compliance to the required thickness & compaction of backfill	/	= x	
RBWS-500-07	Conformance to trenching requirements	/	= x	
RBWS-500-08	Free from debris, siltation, etc.	/	= X	
		/	= X	
Item 502 Manho	le, Inlets and Catch Basins		=	
Major				
RBWS-502-01	Conformance to connection requirements between pipes & inlet wall	/	X	
RBWS-502-02	Conformance to approved/specified tolerance for dimensions and elevations	/	X	
Minor				
RBWS-502-03	No damage on manhole, inlets & catch basins	/	=x	
RBWS-502-04	No cracks	/	=x	
RBWS-502-05	No honeycomb	/	=X	
RBWS-502-06	Free from debris, siltation, etc.	/	=x	
RBWS-502-07	Covers and gratings are well fitted and can easily be opened during maintenance work	/	=X	
		/	=X	
Item 504 Cleanin	g and Recondition of Existing Drainage Structures			
RBWS-504-01	Conformance to the approved/required tolerances for alignment	/	=x	
RBWS-504-02	Proper spacing of rebars	/	X	
RBWS-504-03	Compliance to scope of work	/	X	
RBWS-504-04	Conformance to plans and specifications	/	X	
		/	X	
Was subcontracto	or used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	

PROJECT ID/N	<del>_</del>		ope Protection	
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 505 Riprap Concrete	and Grouted Riprap, Item 506 Stone Masonry, Item 507 Rubble			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-5001	No through cracks	/	=X	
RBWS-5002	Conformance to specifications (size, type, weight, etc. of boulders)	/	=X	
RBWS-5003	Sufficient grout/mortar	/	=x	
RBWS-5004	Observance to proper placing of stones/boulders	/	=x	
RBWS-5005	Conformance to the approved/required tolerance for slope and thickness	/	=x	
RBWS-5006	Compliance to the specified compaction and preparation of bedding	/	x	
Minor	bodumy			
RBWS-5001	No cracks	/	=X	
RBWS-5007	Adequate and proper spacing of weepholes	/	=X	
RBWS-5008	Compliance to design mix of mortar	/	=X	
RBWS-5009	Conformance with approved tolerance for lines, grades, cross- sections and elevations	/	=X	
		/	=X	
		/	=x	
Item 508 Hand-la	id Rock Embankment			
Major				
RBWS-508-01	Conformance to the required size of boulders	/	=X	
RBWS-508-02	Observance to proper placement of stones/boulders	/	=X	
RBWS-508-03	Conformance to the approved/required tolerance for length, slope, and thickness	/	=X	
		/	=x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/N		-	ope Protection / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 509 Sheet Pl 509-1 Steel Sheet				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	ior Defects	<u> </u>	
RBWS-509-1-01	Conformance of in-placed materials to plans & specifications	/	x	
RBWS-509-1-02	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	=X	
RBWS-509-1-03	Piles provided with gradation marks (driven)	/	x	
RBWS-509-1-04	Conformance to the approved/required tolerances for length, width, thickness and/or diameter	/	X	
		/	x	
Minor			_	
RBWS-509-1-02	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness ( $\leq$ 20 mm / m), elevation, location ( $\leq$ 150 mm) & spacing	/	X	
RBWS-509-1-03	Piles provided with gradation marks (stockpile)	/	=X	
RBWS-509-1-05	Compliance to the required splicing	/	=x	
RBWS-509-1-06	No corrosion on steel sheet piles	/	x	
RBWS-509-1-07	Non-use of deformed steel bars	/	=x	
RBWS-509-1-08	Attainment of required number of piles	/	x	
		/	=x	
		/	=X	
		/	=x	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N VISIT			ope Protection / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
509-2 Concrete S	heet Pile			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects	3	
RBWS-509-2-01	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm)	/	X	
RBWS-509-2-02	Piles provided with gradation marks (driven)	/	=x	
RBWS-509-2-03	Conformance to the required quality of concrete mix	/	X	
RBWS-509-2-04	No cracks	/	X	
RBWS-509-2-05	Conformance to the approved/required tolerances for length, width, thickness and/or diameter	/	=x	
		/	x	
Minor				
RBWS-509-2-01	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm)	/	x	
RBWS-509-2-02	Piles provided with gradation marks (stockpile)	/	=x	
RBWS-509-2-06	Conformance to the required casting length	/	=x	
RBWS-509-2-07	Provision of pile shoe	/	=x	
RBWS-509-2-08	Compliance to required curing of casted sheet piles	/	=X	
RBWS-509-2-09	Compliance to required splicing	/	=x	
RBWS-509-2-10	No honeycomb, stone pockets and bulging	/	=X	
RBWS-509-2-11	Conformance to the required centerline and cut-off elevation	/	=X	
RBWS-509-2-12	Attainment of required number of piles	/	=X	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	

PROJECT ID/N		-	ope Protection / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
509-3 Timber She	eet Piles			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	3	
RBWS-509-3-01	Conformance of in-placed materials to plans & specifications	/	x	
RBWS-509-3-02	Conformance to construction methodology (installation, location and type)	/	=X	
RBWS-509-3-03	Conformance to splicing requirements	/	x	
RBWS-509-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
RBWS-509-3-05	Piles provided with gradation marks (driven)	/	x	
RBWS-509-3-06	Conformance to approved/specified tolerances for length, width, thickness and/or diameter	/	x	
Minor				
RBWS-509-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	X	
RBWS-509-3-05	Piles provided with gradation marks (stockpile)	/	X	
RBWS-509-3-07	No worm holes, decays, warps, ring, segregation, splits and loose knots	/	X	
RBWS-509-3-08	Non-splintering/brooming of timber pile end beyond specified allowance	/	=X	
RBWS-509-3-09	No cracks	/	X	
RBWS-509-3-10	Provision of pile cap	/	=x	
RBWS-509-3-11	Attainment of required number of piles	/	=X	
		/	x	
		/	X	
		/	X	
		/	=x	
		/	X	
		/	=X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/N			ope Protection / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 510 Concret	e Slope Protection			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	6	
RBWS-510-01	No honeycomb (exposed rebars/aggregates)	/	X	
RBWS-510-02	No through cracks	/	=x	
		/	X	
Minor				
RBWS-510-01	No honeycomb	/	=x	
RBWS-510-02	No cracks	/	=X	
RBWS-510-03	Conformance to the required curing	/	=x	
RBWS-510-04	Proper vibration	/	=x	
RBWS-510-05	Proper finishes/plastering	/	=x	
RBWS-510-06	No corrosion on steel bars	/	X	
RBWS-510-07	Forms applied with specified form oil	/	X	
RBWS-510-08	Conformance to the required splicing and installation of rebars	/	X	
RBWS-510-09	Adequate and proper spacing of weepholes	/	x	
		/	X	
		/	X	
		/	x	
		/	x	
		/	x	
		/	X	
		/	X	
		/	=x	
		/	=x	
		/	x	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:	-	Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/N			ope Protection / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 511 Gabions	s & Mattresses			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-511-01	Conformance to the required/approved tolerance for lines grades, dimensions and arrangements as shown on the plans and designated location (>10%)	/	X =	
RBWS-511-02	Conformance to specifications (size, type, weight, etc. of boulders)	/	X	
Minor				
RBWS-511-01	Conformance to the required/approved tolerance for lines grades, dimensions and arrangements as shown on the plans and designated location (≤10%)		X	
RBWS-511-03	Conformance to the required wire mesh cage fabrication requirement	/	=x	
RBWS-511-04	No misalignment, bulging	/	X	
RBWS-511-05	Conformance to the required lapping requirement	/	X	
		/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
Item 602 Monume	ents, Markers and Guide Posts			
RBWS-602-01	Conformance to required/approved tolerance for lines, grades and dimensions	/	x	
RBWS-602-02	Conformance to painting requirement	/	=X	
RBWS-602-03	Provision of the required warning reflectors	/	=x	
RBWS-602-04	Conformance to the design and location as shown on the plans	/	=X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/NVISIT	IO.: PROJECT TYPE: Bridge LOCATION:	_	Guardrail DF VISIT: /	/
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 603 - Guardi 603-1 Steel or Ali				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	6	
RBWS-603-1-01	Conformance to the required/approved tolerance for lines, grades and dimensions (>6%)		X	
Minor				
RBWS-603-1-01	Conformance to the required/approved tolerance for lines, grade, and dimensions (<6%)	/	=X	
RBWS-603-1-02	Sufficient paint	/	=x	
RBWS-603-1-03	Sufficient galvanizing	/	X	
RBWS-603-1-04	Non-appearance of rust on steel	/	=X	
RBWS-603-1-05	Conformance with the design and location as shown on the plans	/	X	
RBWS-603-1-06	Conformance to required installation (lapping, provision of bolts, nuts & washers)	/	X	
		/	=X	
		/	=X	
		/	=X	
603-2 Concrete (see common item reinforcing steel be	ns of works for checklist on formworks, ars and concrete)			
		/	=X	
603-3 Timber				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma		3	
RBWS-603-3-01	Conformance to the required/approved tolerance for lines, grades and dimensions	/	=X	
Minor	Conformance to the approved/required tolerance for lines, grades		V	
RBWS-603-3-01	and dimensions	/	=X	
RBWS-603-3-02	No splitting of timber	/	=X	
RBWS-603-3-03	No insect attack	/	=X	
RBWS-603-3-04	No decay of timber especially at the base of the posts and joints between posts and rails	/	=X	
RBWS-603-3-05	Conformity with the design and location as shown on the plans	/	=X	
RBWS-603-3-06	Proper application of preservatives	/	=X	
		/	=X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N VISIT	IO.: PROJECT TYPE: Bridge LOCATION:		Guardrail DF VISIT: /	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
603-4 Masonry				
Major				
RBWS-603-4-01	Conformance to the required quality of mixture	/	x	
RBWS-603-4-02	Conformance to the required quality of CHB, stones and boulders	/	X	
RBWS-603-4-03	Conformance to the required/approved tolerance for lines grades and dimensions	/	=X	
Minor	Conformance to the required/approved telerance for lines, grades		V	
RBWS-603-4-03	Conformance to the required/approved tolerance for lines, grades and dimensions	/	=X	
RBWS-603-4-04	No cracks	/	=x	
RBWS-603-4-05	Conformance to the design and location as shown on the plan	/	=x	
		/	X	
		/	X	
		/	x	
		/	x	
		/	= x	
			=X	
		/	= X	
		/	=x	
		/	=x	
		/	=	
		/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	x	
Was subsentracts	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	r used? If yes, name of company and owner: &		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: Road ITEM: Miscellaneous Work

VISIT	LOCATION:	DATE C	OF VISIT: /	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	, Item 605 Road Signs, Item 606 Pavement Markings, ve Pavement Studs			
Major	or avenum stads			
RBWS-6001	Conformance to the required materials for road signs pavement markings and reflective pavement studs	/	X	
Minor				
RBWS-6002	Proper preparation of pavement surface prior to paint application (Item 606)	/	=x	
RBWS-6003	Conformance to provisions stipulated in the DPWH Standard Specifications for Public Works & Highways, Vol.II, 1995	/	=X	
RBWS-6004	Cracking, peeling off of paints	/	=X	
		/	=x	
Item 608 Topsoil,	Item 609 Spriggings, Item 610 Sodding, Item 611 Tree Planting			
RBWS-6 01	Conformance to appropriate type, thickness and density of soil	/	=X	
RBWS-6 02	Conformance to approved slope	/	X	
RBWS-6 03	Conformance to the required type of grass/planting materials	/	=X	
RBWS-6 04	Healthy, dense, well rooted	/	=x	
RBWS-6 05	Free from weeds or undesirable grasses	/	=X	
		/	=x	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO	O.: PROJECT TYPE: Road & Bridge LOCATION:		ITEM: Common Items of Work DATE OF VISIT: / /		
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50				
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor	
Item 900 Formwo	orks				
RBWS-900-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X		
RBWS-900-02	Forms coated with mould oil as required	/	X		
RBWS-900-03	Sufficient bracing/support provided	/	X		
RBWS-900-04	No loose knots, splits, cracks, etc.	/	X		
RBWS-900-05	Provision of required concrete or steel spacer	/	X		
RBWS-900-06	Conformance to dimensions, location, plumbness and alignment	/	X		
RBWS-900-07	Provision of camber during construction stage	/	X		
		/	X		
		/	X		
		/	X		
		/	X		
Item 901 Reinford Stressed concre	cing Steel Bars (including tendons for Pre/Post-				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	6		
RBWS-901-01	Conformance of in-placed materials to plans & specifications	/	X		
RBWS-901-02	Non-appearance of corrosion on steel reinforcement	/	X		
Minor					
RBWS-901-02	Non-appearance of rust on steel reinforcement	/	X		
RBWS-901-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	X		
RBWS-901-04	No sign of oil, paint and other deleterious materials on reinforcements	/	=X		
RBWS-901-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X		
RBWS-901-06	Conformance to the required installation of ducktube e.g. (spacing, location and distance)	/	X		
RBWS-901-07	Conformance to the required steel plate and lock	/	X		
RBWS-901-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	X		
		/	X		
		/	X		
		/	X		
Was subcontracto	r used? If yes, name of company and owner:	•	Total Score (a)	CAR Total	
	&		No. of Indicators (b)		
Entered by:	Date: / /		Rate = (a) / (b)		
			Rate		

PROJECT ID/NO.: PROJECT TYPE: Road & Bridge ITEM: Common DATE OF VISIT:			f Work	
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 902 Concret	te Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-902-01	No through of cracks	/	=x	
RBWS-902-02	No honeycomb or spalling (no exposed rebars/aggregates)	/	=X	
RBWS-902-03	No sagging or bulging	/	=X	
RBWS-902-04	Conformance to the required quality of concrete mix	/	=x	
RBWS-902-05	Provision of camber for RCDG (reinforced concrete for deck girder)	/	=x	
Minor				
RBWS-902-01	No cracks	/	=x	
RBWS-902-02	No honeycomb or spalling	/	=x	
RBWS-902-03	No sagging or bulging	/	=X	
RBWS-902-06	No chipping off of concrete cover	/	=X	
RBWS-902-07	Proper and adequate vibration	/	=X	
RBWS-902-08	Conformance to finishing/plastering requirement	/	=X	
RBWS-902-09	Conformance to the required concrete cover for rebars	/	=X	
RBWS-902-10	Conformance to the batching, mixing, transporting and discharge time requirements	/	=x	
RBWS-902-11	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	=X	
RBWS-902-12	Conformance to the jointing requirement	/	=X	
RBWS-902-13	Proper curing	/	=x	
RBWS-902-14	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	=x	
RBWS-902-15	No water ponding on bearing plates	/	=x	
RBWS-902-16	Conformance to elevation of expansion joints	/	=X	
		/	=x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO	D.: PROJECT TYPE: Road & Bridge LOCATION:	_	Shotcrete F VISIT: / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 903 Shotcre	te			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	S	
RBWS-903-01	Conformance to the required quality of concrete mix as per specification	/	X	
RBWS-903-02	Conformance to the required thickness of concrete	/	=x	
RBWS-903-03	Anchor bolts delivered/installed in accordance with the required size and dimension as per plan	/	X	
RBWS-903-04	Steel reinforcement/wire mesh delivered/installed conforms to size and dimension per specification	/	X	
RBWS-903-05	Compliance to use of appropriate shotcrete machine/equipment	/	X	
		/	X	
Minor				
RBWS-903-06	No cracks, honeycomb or spalling	/	=x	
RBWS-903-07	Rockbolt filling materials conforms to the required specification	/	X	
RBWS-903-08	Conformance to the required concrete cover for rebar/wire mesh	/	X	
RBWS-903-09	Adequate and proper spacing of weepholes	/	X	
RBWS-903-10	Conformance to the required size and type of materials for weepholes as per specification	/	=X	
		/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
\\\\-\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10 14		Total Score (a)	CAR Total
	r used? If yes, name of company and owner: &		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
			=	

# ANNEX 2-B

# **CHECKLIST FOR HOUSING AND BUILDING**

Item 100	Clearing and Grubbing	2B-1
Item 101	Excavation	2B-1
Item 102	Fill	2B-1
Item 103	Soil Poisoning	2B-1
Item 300	Structural Steel Works	2B-2
Item 301	Formworks	2B-3
Item 302	Reinforcing Steel Bars	2B-3
Item 303	Concrete Works	2B-4
Item 304	CHB Wall	2B-5
Item 305	Brick Wall	2B-5
Item 400	Floor Finish: Tiled Finish	2B-6
Item 401	Floor Finish: Carpet	2B-6
Item 402	Floor Finish: Wood Parquet	2B-6
Item 403	Floor Finish: Trowelled	2B-7
Item 404	Floor Finish: Pebble Washout	2B-7
Item 405	Floor Finish: Water Proofing	2B-7
Item 500	Wall Finish: Tiled Finish	2B-8
Item 501	Wall Finish: Wall Paper	2B-8
Item 502	Wall Finish: Plaster Finish	2B-8
Item 503	Wall Finish: Cladding	2B-8
Item 504	Wall Finish: Painting	2B-9
Item 600	Ceiling Works: Suspension	2B-10
Item 601	Ceiling Works: Ceiling Board	2B-10
Item 602	Ceiling Works: Moulding	2B-10
Item 603	Ceiling Works: Painting	2B-11
Item 604	Roofing System: Frames	2B-12
Item 605	Roofing System: Sheets	2B-12
Item 606	Roofing System: Tiles	2B-12
Item 607	Roofing System: Painting	2B-13
Item 700	Doors	2B-14
Item 701	Windows	2B-14
Item 702	Railings	2B-14
Item 800	Plumbing	2B-15
Item 801	Sanitary	2B-15
Item 802	Electrical Works	2B-16
Item 900	Generator Set	2B-17
Item 901	Air-conditioning System	2B-17
Item 902	Elevators	2B-17
Item 903	Pipe Culvert and Storm Drain	2B-18
Item 904	Manholes, Inlets and Catch Basin	2B-18
Itam 905	Fancing Gates	2R-19

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Earthworks
VISIT	LOCATION/LOT:	DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 100 Clearii	ng and Grubbing			
HBWS-100-02	Conformance to the approved/specified tolerance for extent of clearing and grubbing work	/	X	
		/	X	
		/	X	
Item 101 Excava	ation			
HBWS-101-01	Conformance to the approved/specified tolerances for lines, grades, dimensions, elevations	/	X	
HBWS-101-02	Conformance to the excavation support systems, e.g. angle of repose, bracing, shoring, sheet piling	/	X	
		/	X	
		/	X	
Item 102 Fill				
HBWS-102-01	Conformance of in-placed materials to plans and specifications	/	X	
HBWS-102-02	Conformance to the required thickness of fill or backfill per layer	/	X	
HBWS-102-03	Conformance to the required density or degree of compaction	/	X	
		/	X	
		/	X	
Item 103 Soil P	oisoning			
HBWS-103-01	Conformance to the specified concentration of soil poisoning solution	/	X	
HBWS-103-02	Conformance to the specified rate of application	1	X	
		/	X	
		/	X	
		/	X	
Was subcontractor used? If yes, name of company and owner:			Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date:	/ /	Rate= (a) / (b) =	
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Structural Steel
VISIT	LOCATION:	DATE OF VISIT: //

racioi: During	Construction = 0.40; Opon Completion = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 300 Struct	tural Steel Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
HBWS-300-01	Conformance of in-placed materials to plans & specifications	/	X	
HBWS-300-02	Conformance to required fasteners, anchor bolts, bolts/nuts and washers (not provided)	/	X	
HBWS-300-03	Free from corrosion and any other form of damages	/	=X	
Minor				
HBWS-300-03	Free from rust and any other form of damages	/	=X	
HBWS-300-04	Conformance to the specified type of welding	/	X	
HBWS-300-05	Fasteners, anchor bolts, bolts / nuts & washers conforms to specified size, strength, etc.	/	X	
HBWS-300-06	Installed according to plans	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	x	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			– Rate	
			=	

PROJECT ID/NO.:	PROJECT TYPE: Housing & Building	ITEM: Common Items of Work
VISIT	LOCATION:	DATE OF VISIT: //

Factor : "Durin	g Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 301 Form	works			
HBWS-301-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X	
HBWS-301-02	Forms coated with mould oil as required	/	X	
HBWS-301-03	Sufficient bracing/support provided	/	X	
HBWS-301-04	No loose knots, splits, cracks, etc.	/	X	
HBWS-301-05	Provision of required concrete or steel spacer	/	X	
HBWS-301-06	Conformance to dimensions, location, plumbness and alignment	/	X	
HBWS-301-07	No use of dilapidated/salvage forms (use more than 3x)	/	X	
		/	X	
		/	X	
Item 302 Reinfo Stressed conci	orcing Steel Bars (including tendons for Pre/Post-			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
HBWS-302-01	Conformance of in-placed materials to plans & specifications	/	X	
HBWS-302-02	Non-appearance of corrosion on steel reinforcement	/	X	
Minor				
HBWS-302-02	Non-appearance of rust on steel reinforcement	/	X	
HBWS-302-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	X	
HBWS-302-04	No sign of oil, paint and other deleterious materials on reinforcements	/	X	
HBWS-302-05	Conformance to jointing requirement, i.e.splicing, welding, etc.	/	X	
HBWS-302-06	Conformance to proper bending of stirrups	/	X	
		/	X	
		/	X	
Was subcontrac	ctor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
			l	l

	CPES CHECKLIST FOR WORKMAN	SHIP		
		_	ommon Items o	f Work
Factor : "Durin	g Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 303 Conc	rete Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major Det	fects	
HBWS-303-01	No through cracks	/	X	
HBWS-303-02	No honeycomb (no exposed rebars/aggregates)	/	X	
HBWS-303-03	No sagging or bulging	/	X =	
HBWS-303-04	Conformance to required quality of concrete mix	/	X	
Minor				
HBWS-303-01	No cracks	/	X	
HBWS-303-02	No honeycomb	/	X	
HBWS-303-03	No sagging or bulging	/	X	
HBWS-303-05	Proper and adequate vibration	/	X	
HBWS-303-06	Conformance to finishing/plastering requirement	/	X	
HBWS-303-07	No chipping off of concrete cover	/	X =	
HBWS-303-08	Conformance to the required concrete cover for rebars	/	X	
HBWS-303-09	Conformance to the batching, mixing, transporting and discharge time requirements	/	X	
HBWS-303-10	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	X =	
HBWS-303-11	Conformance to the jointing requirement	/	X	
HBWS-303-12	Proper curing	/	X	
HBWS-303-13	Conformance to required dimensions, lines, grades/elevation,	/	x	

ПБVV 5-303-13	and location				7	=	
					/	X	
					/	X	
Was subcontrac	tor used? If yes, name	e of company and own	er:			Total Score (a)	CAR Total
		&			_	No. of Indicators (b)	
Entered by:			Date:	/ /		Rate = (a) / (b)	
						Rate	

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Masonry Works
VISIT	LOCATION:	DATE OF VISIT: //

Factor: "During	Construction <sup>®</sup>	= 0.40	"Upon	Completion <sup>®</sup>	= 0.50
i dotoi . Duillig	OULISH GULION	- 0.70	OPOIL	Compiction	- 0.00

Factor : "Durin	g Construction" = 0.40; "Upon Completion" = 0.50	,		
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 304 CHB I	Wall			
Major				
HBWS-304-01	Conformance to required quality of CHB	/	X	
HBWS-304-02	Conformance to required quality of mortar mix	/	X	
Minor				
HBWS-304-03	Conformance to specified tolerances for dimension, location, plumbness and alignment	/	X	
HBWS-304-04	Proper spacing of horizontal and vertical bars	/	X	
HBWS-304-05	Rebars used free from corrosion	/	X	
		/	X	
		/	X	
		/	X	
Item 305 Brick	Wall			
Major				
HBWS-305-01	Conformance to required quality of mortar mix	/	X	
Minor				
HBWS-305-02	Conformance to specified tolerances for dimension, location, plumbness and alignment	/	X	
HBWS-305-03	Proper spacing of horizontal and vertical bars	/	X	
HBWS-305-04	Rebars used free from corrosion	/	X	
		/	X	
		/	=X	
		/	X =	
		/	X	
		/	X	
Was subcontrac	ctor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
				•

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Floor Finishes
VISIT	LOCATION:	DATE OF VISIT: / /

racion: Durin	g Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 400 Tiled I	Finish			
HBWS-400-01	Installed tiles free from chipping, cracks or any form of damages	/	X	
HBWS-400-02	Mortar/Grout consistency and color conform to specification	/	X	
HBWS-400-03	Joints are perfectly aligned and consistent with skirting and wall tiles	/	X	
HBWS-400-04	Tiles are evenly placed/laid	/	X	
HBWS-400-05	Tiles in wet areas sloped down to drain	/	X	
HBWS-400-06	Tiles are properly bonded to floor	/	X	
		/	X =	
Item 401 Carpe	t			
HBWS-401-01	Evenly stretched and of even surface	/	X	
HBWS-401-02	Properly anchored at all edges	/	X	
HBWS-401-03	Provided with underlining	/	X	
HBWS-401-04	Free fron any form of damages	/	X	
HBWS-401-05	Materials conform to specification as per plan	/	X	
		/	X	
Item 402 Wood	Parquet			
HBWS-402-01	Conforms to designed layout	/	X	
HBWS-402-02	Even surfaces	/	X	
HBWS-402-03	Free from any form of damages	/	X	
HBWS-402-04	Adhesive conforms to specifications	/	X	
HBWS-402-05	Parquet properly bonded to floor	/	X	
Was subcontrac	ctor used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:		_	= Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Floor Finishes
VISIT	LOCATION:	DATE OF VISIT: / /

Taotor: Baring	g construction = 0.40, opon completion = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 403 Trowe	lled			
HBWS-403-01	Smooth and even floor finish	/	X	
HBWS-403-02	No temperature cracks	/	X	
HBWS-403-03	No sign of deflection/settlement	/	X	
		/	X	
		/	X	
Item 404 Pebble	e Wash-out			
HBWS-404-01	Installed pebbles are evenly distributed	/	x	
HBWS-404-02	No temperature cracks	/	X	
HBWS-404-03	Installed pebbles surface are thoroughly clean from cement	/	X	
		/	X	
		/	X	
Item 405 Water	Proofing			
HBWS-405-01	Conforms to specified method of application	/	X	
HBWS-405-02	Conforms to number of coats/layers required	/	X	
HBWS-405-03	Passed required leak test	/	X	
HBWS-405-04	Conformance to the required materials specifications as per plan	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Wall Finishes
VISIT	LOCATION:	DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 500 Tiled I	Finish			
HBWS-500-01	Installed tiles free from chipping, cracks or any form of damages	/	X	
HBWS-500-02	Joints are perfectly aligned and consistent with skirting and floor tiles	/	X	
HBWS-500-03	Tiles are evenly placed/layed	/	X	
HBWS-500-04	Installed tiles are true to alignment	/	X	
HBWS-500-05	Mortar/grout/adhesive consistency and color conform to specification	/	X	
HBWS-500-06	Tiles properly bonded to wall	/	X	
Item 501 Wall F	aper			
HBWS-501-01	Smooth and evenly pasted	/	X	
HBWS-501-02	Free from scratches, stains, etc.	/	X	
		/	X	
Item 502 Plaste	er Finish			
HBWS-502-01	Conformance to designed mixture of plastering materials	/	X	
HBWS-502-02	Conformance to specified method of application and thickness of plastering	/	X	
HBWS-502-03	True to alignment	/	X	
HBWS-502-04	Free from any form of damages e.g. cracks, peeled-off plaster finish	/	X	
Item 503 Clado	ling			
HBWS-503-01	Panels properly anchored	/	X	
HBWS-503-02	True to alignment, plumbness	/	X	
HBWS-503-03	Free from any form of damages	/	X	
HBWS-503-04	Panels conforms to construction procedure	/	X	
	etor used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	& Date: / /		= Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing LOCATION:	ITEM: Wall Finishes DATE OF VISIT: / /
Factor : "During Constructio	n" = 0.40; "Upon Completion" = 0.50	

	g Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 504 Painti	ing			
HBWS-504-01	Surface prepared according to specification	/	X	
HBWS-504-02	Required neutralizers, etc. applied	/	X	
HBWS-504-03	Applied paint appropriate to the surface	/	X	
HBWS-504-04	Specified number of coats applied	/	X	
HBWS-504-05	Surfaces evenly painted, proper opacity	/	X	
HBWS-504-06	No discoloration and peeling-off of paint	/	X	
HBWS-504-07	Paints conform to specification/requirements	/	X	
HBWS-504-08	Surface are properly applied with putty/patching compound	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
			=	

PROJECT NO.:	PROJECT TYPE: Building & Housing	ITEM: Ceiling Works
VISIT	LOCATION:	DATE OF VISIT: //

	INDICATORS			
Sub-item Code in	lote: Spots with a single major defect shall forfeit all points for the rest of the idicators in the said spot. Further, if the number of complying spots is less an fifty percent (50%) of the total number of spots, the rating for that specific em of work is zero (0).	Results	Score x factor	Action Monitor
ltem 600 Suspens	sion			
7DVV.5-DUU-U1	Conformance to the specified spacing and length of hangers, lips and joists	/	X	
HBWS-600-02 Ir	nstalled hangers are properly anchored and firm	/	X	
HBVV.S-600-03	rue to alignment and elevation in conformance to the pproved specified tolerance	/	X	
HBWS-600-04 F	ree from any form of damages	/	X	
		/	X	
		/	X	
Item 601 Ceiling I	Board			
HBWS-601-01 M	Naterials free from any form of damages	/	X	
HBWS-601-02 S	Smooth surface and true to elevation and alignment	/	X	
HBWS-601-03 L	ocation of holes for utilities conforms to plans	/	X	
HBWS-601-04 C	Ceiling boards are properly fastened	/	X	
		/	X	
		/	X	
ltem 602 Mouldin	g			
HBWS-602-01 T	rue to elevation and alignment	/	X	
HBWS-602-02 Ir	nstalled materials are free from any form of damages	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		=	CAR Total
	&	_	No. of Indicators (b) =	
=ntered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

	CPES CHECKLIST FOR WORKMANS	SHIP		
PROJECT NOVISIT	PROJECT TYPE: Building & Housing LOCATION:		eiling Works VISIT: //	
Factor : "During	g Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 603 Paintir	ng			
HBWS-603-01	Surface prepared according to specification	/	X	
HBWS-603-02	Required neutralizers applied	/	X	
HBWS-603-03	Applied paint appropriate to the surface	/	X	
HBWS-603-04	Specified number of coats applied	/	X	
HBWS-603-05	Surfaces evenly painted, proper opacity	/	X	
HBWS-603-06	No discoloration and peeling-off of paint	/	X	
HBWS-603-07	Surface are evenly applied with putty/patching compound	/	X	
HBWS-603-08	Paint conform to the requirements	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	

			,	=	
				Total Score (a)	CAR Total
Was subcontract	tor used? If yes, name of company and owner:			=	
	&			No. of Indicators (b)	1
				=	
Entered by:	Date: /	/		Rate = (a) / (b)	
				=	i

/

\_X\_

Rate

PROJECT ID/ NO.:	PROJECT TYPE: Building & Housing	ITEM: Roofing System
VISIT	LOCATION/LOT:	DATE OF VISIT: //

ractor: During	g Construction = 0.40; Opon Completion = 0.50			
	INDICATORS		0-	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 604 Frame	es			
HBWS-604-01	Conformance to the required size, spacing, slope, anchorage, etc.	/	X	
HBWS-604-02	Free from any form of damage	/	X	
HBWS-604-03	Cleats are properly provided	/	X	
		/	X	
		/	X	
Item 605 Sheet	s			
HBWS-605-01	Conformance to the specified gauge, length, etc.	/	X	
HBWS-605-02	Conformance to the specified overlapping, sealing of joints, fastening	/	X	
HBWS-605-03	Installation of flashing, gutters, ridge rolls, downspouts, etc. according to plans	/	X	
HBWS-605-04	Non-occurrence of leaks	/	X	
HBWS-605-05	Free from any form of damage	/	X	
		/	X	
		/	X	
Item 606 Tiles				
HBWS-606-01	Conformance to the specified method of installation	/	X	
HBWS-606-02	Non-occurrence of leaks	/	X	
HBWS-606-03	Free from any form of damage	/	X	
		/	X	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/ NO.:	_ PROJECT TYPE: Building & Housing	ITEM: Roofing System
VISIT	LOCATION/LOT:	DATE OF VISIT: //

racioi. During	Construction = 0.40; Opon Completion = 0.50			
	INDICATORS		Coore	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 607 Paintii	ng			
HBWS-607-01	Surface prepared according to specifications	/	X	
HBWS-607-02	Specified number of coats applied	/	X	
HBWS-607-03	Evenly painted surfaces	/	X	
HBWS-607-04	No discoloration and peeling of paint	/	X	
HBWS-607-05	Paints conforms to requirements	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
		l.		

	CPES CHECKLIST FOR WORKMANS	SHIP		
PROJECT NOVISIT	: PROJECT TYPE: Building & Housing LOCATION:		oors, Windows, F VISIT: / /	-
Factor : "During	g Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 700 Doors	3			
HBWS-700-01	True to alignment, plumbness in conformance to the approved/specified tolerance	/	X	
HBWS-700-02	Doors are well fitted to the door frames	/	X	
HBWS-700-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers	/	X	
HBWS-700-04	Free from any form of damages	/	X	
HBWS-700-05	Doors conforms to specification requirements e.g. panel door, flush door polyvinyl, steel doors, etc.	/	X	
		/	X	
Item 701 Windo	ows			
HBWS-701-01	True to alignment and elevation in conformance to the approved/specified tolerance	/	X	
HBWS-701-02	Windows are well fitted to the window frames	/	X	
HBWS-701-03	Window accessories installed according to plans, e.g. handles, seals, glazing for glass window, etc.	/	X =	
HBWS-701-04	Free from any form of damage	/	X	
HBWS-701-05	Window conforms to specification requirements, e.g. sliding, jalousies (glass & wooden) steel casement windows	/	X	
		/	X	
Item 702 Railin	gs			
HBWS-702-01	Installed according to plans	/	X	
HBWS-702-02	Free from dents, scratches or any form of damage	/	X	
HBWS-702-03	Bends and curves are smooth	/	X	
HBWS-702-04	Conforms to approved tolerance size, dimension, height and type e.g. concrete, steel, stainless, aluminum, etc.	/	X =	
		/	X	
		/	X	
			T-4-L C (-)	CAD Total

HBWS-700-02	Doors are well fitted to the door frames	/	X	
HBWS-700-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers	/	X	
HBWS-700-04	Free from any form of damages	/	X	
HBWS-700-05	Doors conforms to specification requirements e.g. panel door, flush door polyvinyl, steel doors, etc.	/	X	
		/	X	
Item 701 Wind	ows			
HBWS-701-01	True to alignment and elevation in conformance to the approved/specified tolerance	/	X	
HBWS-701-02	Windows are well fitted to the window frames	/	X	
HBWS-701-03	Window accessories installed according to plans, e.g. handles, seals, glazing for glass window, etc.	/	X	
HBWS-701-04	Free from any form of damage	/	X	
HBWS-701-05	Window conforms to specification requirements, e.g. sliding, jalousies (glass & wooden) steel casement windows	/	X	
		/	X	
Item 702 Railin	gs			
HBWS-702-01	Installed according to plans	/	X	
HBWS-702-02	Free from dents, scratches or any form of damage	/	X	
HBWS-702-03	Bends and curves are smooth	/	X	
HBWS-702-04	Conforms to approved tolerance size, dimension, height and type e.g. concrete, steel, stainless, aluminum, etc.	/	X	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
				I

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Basic Services
VISIT	LOCATION:	DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 800 Plum	bing			
HBWS-800-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports	/	X	
HBWS-800-02	Conducted and passed the required leak test	/	X	
HBWS-800-03	Pipes not clogged	/	X	
HBWS-800-04	Free from any form of damages	/	X	
HBWS-800-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location	/	X	
HBWS-800-06	Adhesive conform to specification	/	X	
HBWS-800-07	Water closet, lavatory conform to specification	/	X	
		/	X	
		/	X	
tem 801 Sanit	ary			
HBWS-801-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports	/	X	
HBWS-801-02	Conducted and passed the required pressure/leak test	/	X	
HBWS-801-03	Pipes not clogged	/	X	
HBWS-801-04	Free from any form of damages	/	X	
HBWS-801-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location	/	X	
HBWS-801-06	Adhesive conforms to specification	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Nas subcontrac	ctor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Basic Services
VISIT	LOCATION:	DATE OF VISIT: //
Factor - IIDin a Comptune	ion" 0.40 "Huon Completion" 0.50	

Factor : "Durin	g Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 802 Electi	rical Works			
HBWS-802-01	Pipes installed according to plans and laid out according to approved construction drawings	/	X	
HBWS-802-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	X	
HBWS-802-03	Pipes properly bended	/	X	
HBWS-802-04	Allowable number of wires in a pipe properly observed	/	X	
HBWS-802-05	Splicing and connection provided with adequate rubber and pvc tapes	/	X	
HBWS-802-06	Adequate length of wire provided for termination and splicing	/	X	
HBWS-802-07	Wire color coding complied and observed	/	X	
HBWS-802-08	Wire insulation not damaged during pulling	/	X	
HBWS-802-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	X	
HBWS-802-10	Boxes and enclosures provided according to intended purpose	/	X	
HBWS-802-11	Fittings and accessories provided and properly installed	/	X	
HBWS-802-12	Block-outs and sleeves provided and properly secured	/	X	
HBWS-802-13	Cable ties provided	/	X	
HBWS-802-14	Blank covers provided for outlets and switches that are not utilized	/	X	
HBWS-802-15	Use of tools and equipment properly observed	/	X	
HBWS-802-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	X	
HBWS-802-17	Meager, clamp, phase sequence tests and load test conducted	/	X	
HBWS-802-18	Shop drawings, as-built plan maintained	/	X	
		/	X	
		/	X	
Was subcontrac	etor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
_		-	No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
				•

PROJECT ID/NO.:	PROJECT TYPE: Building	ITEM: Mechanical Works
VISIT	LOCATION:	DATE OF VISIT: //

ractor. During	g construction = 0.40, opon completion = 0.50			
	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action
Sub-item Code	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
Item 900 Gener	rator Set			
HBWS-900-01	Installation of auxillary, piping and control panel according to plans	/	X	
HBWS-900-02	Installed materials free from any form of damages	/	X	
HBWS-900-03	Pipes sufficiently braced	/	X	
HBWS-900-04	Passed the required test	/	X	
		/	X	
Item 901 Air-co	onditioning System			
HBWS-901-01	Air-conditioning units, transfer fans, pipes, ducts, condensers, installed according to plans	/	X	
HBWS-901-02	Jointing of pipes and ducts conform to specified jointing system	/	X	
HBWS-901-03	Pipes and ducts free from leaks	/	X	
HBWS-901-04	Pipes and ducts sufficiently braced/supported	/	X	
HBWS-901-05	Installed materials free from any form of damage	/	X	
HBWS-901-06	Conducted and passed required tests	/	X	
		/	X	
Item 902 Eleva	tors			
HBWS-902-01	Installed according to plans	/	X	
HBWS-902-02	Installed cables, pulleys, rails, tracks and bearings free from any form of damage	/	X	
HBWS-902-03	Smooth riding operation	/	X	
		/	X	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	
			_	

PROJ. ID/NO.:	PROJ. TYPE: Building	ITEM: Sewer & Drainage System
VISIT	LOCATION/LOT:	DATE OF VISIT: //

ractor. Durin	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 903 Pipe	Lulvert and Storm Drain			
HBWS-903-01	Bedding and backfill materials compacted to the required density	/	X	
HBWS-903-02	Proper jointing of pipes	/	X	
HBWS-903-03	Mortar for jointing of reinforced concrete culvert pipes conforms to specified mixture type	/	X	
HBWS-903-04	Adequate collaring of reinforced concrete culvert pipes	/	X	
HBWS-903-05	Conformance to the approved/specified tolerance for elevation, slope, and alignment	/	X	
HBWS-903-06	Cracks, honeycomb, chipping-off within specified tolerances	/	X	
HBWS-903-07	Sufficient collaring & flushing	/	X	
HBWS-903-08	Conformance to the approved quality of concrete mix	/	X	
HBWS-903-09	Spacing and sizes of rebars conform to specification	/	X	
		/	X	
Item 904 Manh	oles, Inlets and Catch Basin			
HBWS-904-01	Conformance to approved/specified tolerances for dimensions, elevations	/	X	
HBWS-904-02	Covers and gratings well fitted and can easily be opened during maintenance work	/	X	
HBWS-904-03	Honeycomb, cracks, spalling, etc. within specified tolerance	/	X	
HBWS-904-04	Conformance to approved quality of concrete mix	/	X	
HBWS-904-05	Spacing and sizes of rebars conform to specification	/	X	
		/	X	
ltem 905 Fenci	ng, Gates			
HBWS-905-01	Conformance to the approved/specified tolerance for alignment, dimension and elevation	/	X	
HBWS-905-02	Installed according to plans and specifications	/	X	
Was subcontrac	ctor(s) used? If yes, name of company(ies) and sub-item:		Total Score (a)	CAR Total
Entered by:	Date: / /		No. of Indicators (b)  Rate = (a) / (b) =	
			Rate =	

# ANNEX 2-C

# **CHECKLIST FOR PORTS AND HARBOR**

Item 100	Breakwater, Bulkhead, Causeway, Jetty, Groin,	
	Shore Protection Works	2C-1
Item 101	Gabions	2C-2
Item 200	Reinforced Concrete Piles	2C-3
Item 201	Timber Piles	2C-4
Item 202	Steel Piles	2C-5
Item 203	Timber Structural Member	2C-6
Item 204	Metal Structural Member	2C-6
Item 300	Rubber Dock Fender, Rubber Fender on RC Pile	2C-7
Item 301	Timber Pile Fender, Rubbing Timber, Timber Waling	2C-7
Item 302	Mooring Fixtures: Cleat, Post, Bitt, Bollard	2C-8
Item 303	Filter Fabric/Reinforcing Mattress	2C-8
Item 304	Stair Landing/Ladder	2C-9
Item 305	Bulkhead Curves and Deflector Wall	2C-9
Item 400	Roll-on/Roll-off	2C-10
Item 500	Lighting System	2C-11
Item 501	Reefer Container Power Terminal	2C-12
Item 502	Fire Alarm System	2C-13
Item 503	Transformers	2C-13
Item 504	Protection System for Outdoor Electrical Works	2C-14
Item 600	Stand-by Generator System	2C-15
Item 601	A.C. System/Cold Storage	2C-15
Item 602	Mechanical Ventilation	2C-16
Item 700	Reclamation Works	2C-17
Item 710	Dredging Works	2C-18
Item 800	Caisson Type Breakwater	2C-19
Item 801	Concrete Blocks/Tetropods	2C-19
Item 802	Navigational Aids	2C-19
Item 900	Formworks	2C-20
Item 901	Reinforcing Steel Bars	2C-20
Item 902	Concrete Works	2C-21
Item 903	Electrical Works	2C-22
Item 904	CHB Wall	2C-23
Item 905	Doors	2C-23
Item 906	Plaster Finish	2C-24
Item 907	Painting	2C-24
Item 908	Pipe Culvert and Storm Drain	2C-25
Item 909	Manholes, Inlets and Catch Basin	2C-25
Itam 010	Sheets	20-26

PROJECT ID/N VISIT	O.: PROJECT TYPE: Ports and Harbor LOCATION:		Rockworks DF VISIT: / /	,
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	r, Bulkhead, Causeway, Jetty Groin, Shore, Protection Works, i.e., prap, rubble, stone masonry)			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Majo	or Defects		
PHWS-100-01	Conformance to the cross-sectional dimensions as per design and specifications	/	X	
PHWS-100-02	Conformance to the design elevations	/	X	
PHWS-100-03	Conformance to the side slopes or berm as per design and specifications	/	X	
PHWS-100-04	Conformance to the location as per design and specifications	/	X	
PHWS-100-05	Conformance to the alignment as per design and specifications	/	=X	
PHWS-100-06	Conformance to the rock placement methodology and/or construction methodology	/	=x	
PHWS-100-07	Compliance/conformance to the designed foundation, e.g. toe	/	=X	
		/	=X	
Minor				
PHWS-100-01	Conformance within approved/specified tolerance for cross-section	/	=X	
PHWS-100-02	Conformance within approved/specified tolerance for elevation	/	X	
PHWS-100-05	Conformance within approved/specified tolerance for alignment	/	X	
PHWS-100-08	Provision of adequate bedding as required	/	X	
PHWS-100-09	Non-occurrence of displaced/sucked-out rocks	/	X	
PHWS-100-10	Conformance within approved/specified tolerance of in-between gaps for rocks in-place	/	X	
PHWS-100-11	Provision of settlement plates/blocks	/	=X	
		/	X	
		/	X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	•

PROJECT ID/NO VISIT	D.: PROJECT TYPE: Ports and Harbor LOCATION:	ITEM: RODATE O	ockworks F VISIT: //	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 101 Gabions				
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-101-01	Conformance to the cross-sectional dimensions as per design and specifications	/	X	
PHWS-101-02	Conformance to the design elevations	/	X	
PHWS-101-03	Conformance to the location as per design and specifications	/	=x	
PHWS-101-04	Conformance to the alignment as per design and specifications	/	X	
PHWS-101-05	Conformance to the wire mesh cage fabrication requirements (alignment, lapping, etc.)	/	x	
PHWS-101-06	Proper construction methodology, e.g., placing of rock fill materials, lapping and twisting of mesh wire	/	X	
PHWS-101-07	Conformance to minimum density requirements (in kg./cu.m.) for filled gabions	/	X	
		/	X	
		/	X	
		/	X	
Minor				
PHWS-101-01	Conformance within the approved/specified tolerance for cross- sectional dimensions	/	X	
PHWS-101-02	Conformance within the approved/specified tolerance for elevations	/	X	
PHWS-101-04	Conformance within the approved/specified tolerance vs. the actual alignment	/	x	
PHWS-101-08	Provision of adequate bedding as required	/	X	
		/	X	
		/	X	
		/	X	
		/	x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	1

PROJECT ID/N VISIT	O.: PROJECT TYPE: Ports and Harbor LOCATION:		Piers/Wharves/S DF VISIT: / /	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 200 R.C. Piles				
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-200-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=x	
PHWS-200-02	Conformance to the design length as per design and specifications	/	=x	
PHWS-200-03	Conformance to the minimum required embedment of spliced joint	/	=x	
PHWS-200-04	Use of metal collar and/or protective caps during driving	/	X	
PHWS-200-05	Attainment of required pile penetration/bearing capacity	/	=X	
PHWS-200-06	Pile shoe is provided for each pile	/	=X	
PHWS-200-07	Conformance to required number of piles supplied and driven in-place	/	=X	
PHWS-200-08	Lifting of each pile is at designed lifting points	/	=X	
PHWS-200-09	Vertical piles are driven plumb	/	=x	!
PHWS-200-10	Batter piles are driven in accordance with the designed slope	/	=x	
		/	X	
		/	X	
Minor				
PHWS-200-01	Conformance within the approved/specified tolerance for dimension	/	=X	
PHWS-200-02	Conformance within the approved/specified tolerance for pile length	/	=X	
PHWS-200-09	Conformance within the approved/specified tolerance for plumbness/verticality	/	X	
PHWS-200-10	Conformance within the approved/specified tolerance for slope of the batter piles	/	X	
PHWS-200-11	Proper graduation/markings	/	X	
PHWS-200-12	Steel lifting hooks are cut-off and applied with approved type of sealant	/	X	
PHWS-200-13	Alignment of the piles driven in-place are within the approved/specified tolerance	1	X	
PHWS-200-14	Pile cut-off elevations are chipped-off properly. Free from excessive chipping below the cut-off elevations	/	X	
		/	=X	
		/	=X	
		/	X	
		/	X	
Was subcontract	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	used? II yes, name of company and owner.		No of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	1

PROJECT ID/NVISIT	O.: PROJECT TYPE: Ports and Harbor LOCATION:		iers/Wharves/S DF VISIT:    /   /	Slipways
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 201 Timber Pil	es			
Major	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-201-01	Conformance to the cross-sectional dimensions as per design and specifications	/	X	
PHWS-201-02	Conformance to the design length as per design and specifications	/	X	
PHWS-201-03	Use of metal collar and/or protective caps during driving	/	X	
PHWS-201-04	Attainment of required pile penetration/bearing capacity	/	=x	
PHWS-201-05	Conformance to the required number of piles supplied and driven in-place	/	X	
PHWS-201-06	Lifting is at designated lifting points of each pile	/	=X	
PHWS-201-07	Vertical piles are driven plumb	/	X	
PHWS-201-08	Batter piles are driven in accordance with the designed slope	/	X	
PHWS-201-09	No massive splitting is visible perpendicular to the pile length	/	X	
		/	=X	
		/	x =	
Minor				
PHWS-201-01	Conformance within the approved/specified tolerance for dimension	/	X	
PHWS-201-02	Conformance within the approved/specified tolerance for pile length	/	X	
PHWS-201-07	Conformance within the approved/specified tolerance for plumbness/verticality	/	=X	
PHWS-201-08	Conformance within the approved/specified tolerance for slope of the batter piles	/	=X	
PHWS-201-10	Proper graduation/markings	/	=X	
PHWS-201-11	Alignment of the piles driven in-place are within the approved/specified tolerance	/	=X	
PHWS-201-12	Pile butt is free from brooming	/	X	
		/	=X	
		/	X	
		/	X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N VISIT	IO.: PROJECT TYPE: Ports and Harbor LOCATION:		iers/Wharves/S F VISIT: / /	
Factor · "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	IN DICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 202 Steel Pil	es			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-202-01	Conformance to the cross-sectional dimensions as per design and specifications	/	X	
PHWS-202-02	Conformance to the design length as per design and specifications	/	=X	
PHWS-202-03	Use of metal collar and/or protective caps during driving	/	=x	
PHWS-202-04	Attainment of required pile penetration/bearing capacity	/	=X	
PHWS-202-05	Conformance to the splicing requirements as per design and specifications	/	=X	
PHWS-202-06	Conformance to required number of piles supplied and driven in-place	/	=x	
PHWS-202-07	Lifting of each pile is at designed lifting points	/	=x	
PHWS-202-08	Vertical piles are driven plumb	/	=x	
PHWS-202-09	Batter piles are driven in accordance with the specified slope	/	=x	
PHWS-202-10	Driven piles are free from massive dents or damages	/	=x	
PHWS-202-11	Each pile is properly applied with protective coating as required	/	=x	
		/	X	
		/	x	
Minor				
PHWS-202-01	Conformance within the approved/specified tolerance for dimension	/	=X	
PHWS-202-02	Conformance within the approved/specified tolerance for pile length	/	=x	
PHWS-202-08	Conformance within the approved/specified tolerance for plumbness/verticality	/	=X	
PHWS-202-09	Conformance within the approved/specified tolerance for slope of the batter piles	/	=x	
PHWS-202-12	Proper graduation/markings	/	=X	
PHWS-202-13	Alignment of the piles driven in-place are within the approved/specified tolerance	/	=X	
PHWS-202-14	Pile cut-off are properly cut with appropriate cutting outfits at the established pile cut-off elevations	/	=X	
		/	=x	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	ı

PROJECT ID/N VISIT	O.: PROJECT TYPE: Ports and Harbor LOCATION:		Piers/Wharves/S DF VISIT:    /   /	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 203 Timber S	Structural Member			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-203-01	Non-apperance of decay or insect attack	/	X	
PHWS-203-02	Non-apperance of massive splitting	/	=X	
PHWS-203-03	Non-apperance of bends or warping	/	=X	
PHWS-203-04	Conformance with the cross-sectional dimensions per design and specifications	/	X	
PHWS-203-05	Conformance to the design length as per design and specifications	/	=X	
PHWS-203-06	Splicing/lapping is in accordance with the design and specifications	/	=x	
PHWS-203-07	Conformance with the installation fixtures including fittings	/	X	
Minor				
PHWS-203-04	Conformance within the specified tolerance for cross-sectional dimensions	/	=X	
PHWS-203-05	Conformance within the specified tolerance for length	/	X	
		/	X	
tem 204 Metal Str	uctural Member			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
wajoi				
PHWS-204-01	Conformance with the cross-sectional dimensions per design and		X	
•	·			
PHWS-204-01	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and	/	=x	
PHWS-204-01 PHWS-204-02	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications	/	=X =X	
PHWS-204-01 PHWS-204-02 PHWS-204-03	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications	/ /	=X =X =X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications	/ /	= X = X = X = X = X = X = X = X = X = X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings	/ / /	= X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings	/ / / /	= X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures	/ / / / /	= X = X = X = X = X = X = X = X = X = X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07 PHWS-204-08	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures  Non-occurrence of corrosion  Conformance within the specified tolerance for cross-sectional	/ / / / / /	= X = X = X = X = X = X = X = X = X = X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07 PHWS-204-08 Minor	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures  Non-occurrence of corrosion	/ / / / /	= X = X = X = X = X = X = X = X = X = X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07 PHWS-204-08 Minor PHWS-204-01	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures  Non-occurrence of corrosion  Conformance within the specified tolerance for cross-sectional dimensions	/ / / / / / / / / / / / / / / / / / /	= X = X = X = X = X = X = X = X = X = X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07 PHWS-204-07 PHWS-204-08 Minor PHWS-204-01 PHWS-204-02	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures  Non-occurrence of corrosion  Conformance within the specified tolerance for cross-sectional dimensions  Conformance within the specified tolerance for length	/ / / / / / / / / / / / / / / / / / /	=	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07 PHWS-204-07 PHWS-204-08 Minor PHWS-204-01 PHWS-204-02 PHWS-204-08	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures  Non-occurrence of corrosion  Conformance within the specified tolerance for cross-sectional dimensions  Conformance within the specified tolerance for length  Non-occurrence of rust	/ / / / / / / / / / / / / / / / / / /	= X = X = X = X = X = X = X = X = X = X	
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07 PHWS-204-07 PHWS-204-08 Minor PHWS-204-01 PHWS-204-02 PHWS-204-08 PHWS-204-09	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures  Non-occurrence of corrosion  Conformance within the specified tolerance for cross-sectional dimensions  Conformance within the specified tolerance for length  Non-occurrence of rust  Sufficient coating applied for rust protection		= X = X = X = X = X = X = X = X = X = X	CAR Total
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07 PHWS-204-07 PHWS-204-08 Minor PHWS-204-01 PHWS-204-02 PHWS-204-08 PHWS-204-09	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures  Non-occurrence of corrosion  Conformance within the specified tolerance for cross-sectional dimensions  Conformance within the specified tolerance for length  Non-occurrence of rust		= X = X = X = X = X = X = X = X = X = X	CAR Total
PHWS-204-01 PHWS-204-02 PHWS-204-03 PHWS-204-04 PHWS-204-05 PHWS-204-06 PHWS-204-07 PHWS-204-07 PHWS-204-08 Minor PHWS-204-01 PHWS-204-02 PHWS-204-08 PHWS-204-09	Conformance with the cross-sectional dimensions per design and specifications  Conformance to the design length as per design and specifications  Connections or joints are welded in accordance with the design and specifications  Splicing/lapping is in accordance with the design and specifications  Non-occurrence of bending or warping, cracking on metal and fixings  Non-occurrence of cracks on metal and fixings  Non-occurrence of cracks on metal components and fixtures  Non-occurrence of corrosion  Conformance within the specified tolerance for cross-sectional dimensions  Conformance within the specified tolerance for length  Non-occurrence of rust  Sufficient coating applied for rust protection  used? If yes, name of company and owner:		=X	CAR Total

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor LOCATION:	ITEM: Protective Works DATE OF VISIT: //
Factor : "During Construction" =	0.40; "Upon Completion" = 0.50	
	INDICATORS	

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS		0	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 300 Rubber	Dock Fender, Rubber Fender on RC Pile			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-300-01	Conformance with the cross-sectional dimensions per design and specifications	/	X	
PHWS-300-02	Conformance to the design length as per design and specifications	/	X	
PHWS-300-03	Free from damages such as chipped-off edges, etc. during transport and handling	/	X	
PHWS-300-04	Installation in accordance with the locations as per design and specifications	/	=X	
PHWS-300-05	Installation in accordance with the designed elevation	/	X	
PHWS-300-06	Proper alignment of installed fenders	/	=x	
PHWS-300-07	Complete installation of fixtures and accessories	/	=X	
		/	=X	
Minor	Conformance within the englished televance for executional			
PHWS-300-01	Conformance within the specified tolerance for cross-sectional dimensions	/	=X	
PHWS-300-02	Conformance within the specified tolerance for length	/	=X	
		/	=X	
		/	=X	
	Pile Fender, Rubbing Timber, Timber Wailing			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects	l "	
PHWS-301-01	Non-appearance of decay or insect attack	/	=X	
PHWS-301-02	Non-apperance of massive splitting	/	=X	
PHWS-301-03	Non-apperance of bends or warping	/	=X	
PHWS-301-04	Conformance with the cross-sectional dimensions per design and specifications	/	X =	
PHWS-301-05	Conformance to the design length as per design and specifications	/	X =	
		/	X	
Minor				
PHWS-301-04	Conformance within the specified tolerance for cross-sectional dimensions	/	X	
PHWS-301-05	Conformance within the specified tolerance for length	/	X	
PHWS-301-06	No chipped-off edges	/	=X	
		/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entared by:				
Entered by	Date: / /		Rate = (a) / (b) =	ļ
Entered by	Date: / /		Rate = (a) / (b) = Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor	ITEM: Protective Works
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 302 Mooring	Fixture: Cleat, Post, Bitt, Bollard			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-302-01	Supplied/installed mooring fixtures in accordance with the plans and specifications	/	x	
PHWS-302-02	Conformance to the required number of anchor bolts, nuts and washers in accordance with the plans and specifications	/	x	
PHWS-302-03	Conformance to pedestal/foundation requirements in accordance with the plans and specifications	/	x	
PHWS-302-04	Conformance to the anchoring/embedment requirements of the anchor bolts	/	x	
PHWS-302-05	Conformance to the number of mooring fixtures in accordance with the plans and specifications	/	x	
PHWS-302-06	Conformance to the location of the mooring fixtures in accordance with the plans and specifications	/	X	
PHWS-302-07	Conformance to the type and installation requirements for sealers of anchor bolts and nuts	/	X	
PHWS-302-08	Non-occurrence of corrosion	/	X	
PHWS-302-09	Non-occurrence of damages e.g. breakage, cracks or chipped-off portions on the mooring fixtures including accessories	/	X	
		/	x	
Minor				
PHWS-302-01	Supplied/installed mooring fixtures and accessories within the approved/specified tolerances	/	X	
PHWS-302-03	Conformance to pedestal/foundation within the approved/specified tolerances	/	X	
PHWS-302-08	Non-occurrence of rust	/	X	
		/	=X	
		/	=x	
Item 303 Filter Fa	bric/Reinforcing Mattress			
Minor				
PHWS-303-01	Conformance to the elevation and extent of application as shown on the plan	/	x	
PHWS-303-02	Conformance to the required installation procedure, e.g. lapping requirement, etc.	/	X	
PHWS-303-03	Installed material is free from damage e.g. tears or holes	/	X	
		/	X	
Minor				
PHWS-303-04	Installed material is not exposed to traffic loads	/	=X	
		/	X	
		/	X	
		/	X =	
Was subcontracto	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:			Rate = (a) / (b)	
Entored by			Rate = (a) / (b) = Rate	
			=	l

PROJECT ID/N VISIT	O.: PROJECT TYPE: Ports and Harbor ITEM: Pr LOCATION: DATE O		Works / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 304 Stair La	nding/Ladder			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-304-01	Conformance to the dimensions as per design and specifications	/	X	
PHWS-304-02	Conformance to the required number of steps, risers	/	x	
		/	X	
		/	X	
Minor				
PHWS-304-01	Conformance within the approved/specified tolerance for dimensions	/	=x	
		/	=X	
	For reinforced concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	X	
		/	X	
		/	x	
		/	x	
Item 305 Bulkhea	d Curves and Deflector Wall			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-305-01	Conformance to the dimensions as per design and specifications	/	x	
		/	x	
		/	x	
Minor			_	
PHWS-305-01	Conformance within the approved/specified tolerance for dimensions	/	=x	
		/	x	
	For reinforced concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	=x	
		/	=x	
		/	x	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
			=	

PROJECT ID/N VISIT		oll-on / R F VISIT:		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 400 Roll-on /	Roll-off			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Maj	or Defects		
PHWS-400-01	Conformance with the ramp dimensions in accordance with the plans and specifications	/	=X	
PHWS-400-02	Conformance with the deck inclination in accordance with the plans and specifications	/	=X	
PHWS-400-03	Conformance with the ramp location in accordance with the plans and specifications	/	X	
		/	=X	
		/	=X	
Minor		/	=X	
PHWS-400-01	Conformance within the approved/specified tolerance for dimensions	/	x	
PHWS-400-02	Conformance within the approved/specified tolerance for deck inclination	/	x	
		/	X	
		/	x	
	For reinforced concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902	/	X	
		/	=X	
		/	=x	
		/	X	
		/	=X	
		/	X	
		/	X =	
		/	=X =	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	& Date: / /		No. of Indicators (b)	
Lintered by	Date: / /		Rate = (a) / (b) =	i.
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor	ITEM: Electrical Works
VISIT	LOCATION:	DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
tem 500 Lighting	System (includes lighting tower)			
//ajor*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	or Defects		
PHWS-500-01	Supplied/installed type of lamps in accordance with the design and specifications		x	
PHWS-500-02	Supplied/installed number of lamps in accordance with the design and specifications	/	X	
PHWS-500-03	Conformance to the cross-sectional dimensions of lighting poles in accordance with the design and specifications	/	=X	
PHWS-500-04	Conformance to the height/length of lighting poles in accordance with the design and specifications	/	X	
PHWS-500-05	Conformance to the location of lighting poles in accordance with the design and specifications	/	X	
PHWS-500-06	Lighting poles are erected plumb	/	=X	
PHWS-500-07	Conformance to the wiring sizes in accordance with the design and specifications	/	X	
PHWS-500-08	Conformance with electrical fixtures (e.g. switches, wire cables, load break switch, power fuse)	/	=X	
PHWS-500-09	Electrical wiring installed are fully insulated e.g. insulation are not peeled-off	/	X	
PHWS-500-10	Electrical conduits and pipes conformed with the design and specifications	/	X =	
		/	X =	
		/	=x	
Minor				
PHWS-500-03	Conformance within the approved/specified tolerance for dimensions of lighting poles	/	X	
PHWS-500-04	Conformance within the approved/specified tolerance for height/length of lighting poles	/	=X	
PHWS-500-06	Conformance within the approved/specified tolerance for plumbness of lighting poles	/	X =	
PHWS-500-11	Conformance with the illumination distribution or direction of illumination in accordance with the design and specs	/	=X	
PHWS-500-12	Lighting poles and cage platforms properly coated against rust in accordance with the plans and specifications	/	=X	
		/	=X	
		/	=	
	For r.c. pedestals and foundation of lighting poles, r.c. ductbanks and r.c. handholes: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	X	
		/	X	
		/	X	
		/	X =	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Tota
	Date: / /		= Rate = (a) / (b)	
,			I_ `´ `´	
			= Rate	

PROJECT ID/N VISIT	O: PROJECT TYPE: Ports and Harbor ITEM: Ell LOCATION: DATE O			
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 501 Reefer C & Power Panel)	Container Power Terminal (Receptacle-Socket Outlet			
Major				
PHWS-501-01	Compliance with the quantity of Receptacle-Socket Outlets as required in the design and specifications	/	=x	
PHWS-501-02	Compliance with the quality requirements of Receptacle-Socket Outlets as indicated in the design and specifications	/	X =	
		/	=X	
		/	X	
	For reinforced concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	X	
	For steel racks: refer to PHWS 204			
		/	=X	
	For electrical works: refer to PHWS 903			
		/	=X	
		/	X =	
		/	=X	
		/	X =	
		/	X =	
		/	X =	
		/	=X	
		/	X =	
		/	X =	
		/	X =	
		/	=X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

	CPES CHECKLIST FOR WORKMANS	SHIP		
PROJECT ID/N VISIT	PROJECT TYPE: Ports and Harbor ITEM: EI LOCATION: DATE O			
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	rm System (Manual Stations, Fire Alarm Bells, Control Panels, tors, Pre-design Horn, Visual Anusciator, Power Supply)			
PHWS-502-01	Compliance with the number of automatic detectors as required in the design and specifications	/	x	
PHWS-502-02	Compliance with the number of sprinklers as required in the design and specifications	/	=X	
PHWS-502-03	Compliance with the number of fire alarms/bells as required in the design and specifications	/	X	
PHWS-502-04	Compliance with the installation for detectors as required in the design and specifications	/	X	
PHWS-502-05	Compliance with the installation for sprinkler system as required in the design and specifications	/	X	
PHWS-502-06	Compliance with the type of power supply for the alarm system as required in the design and specifications	/	X	
PHWS-502-07	Compliance with the installation of water supply system for fire emergencies as required in the design and specifications	/	X	
PHWS-502-08	Compliance with the installation of water piping inlets/outlets for fire emergencies as required in the design and specs	/	X	
		/	X	
		/	X	
		/	X	
tem 503 Transfo	rmer (Voltage, phase, load capacity, types, location fencing)			
Major				
PHWS-503-01	Compliance with the voltage rating input/output as required in the design and specifications	/	=X	
PHWS-503-02	Compliance with the number of phase as required in the design and specifications	/	X	
PHWS-503-03	Compliance with the load capacity as required in the design and		X	

PHWS-503-03	specifications	/	=	
PHWS-503-04	Compliance with the location and installation as required in the design and specifications	/	X	
PHWS-503-05	Compliance with the circuit safety protection and accessories as required in the design and specifications	/	X	
		/	X	
		/	=x	
	For electrical works: refer to PHWS 903			
		/	X	
		/	X	·
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	
				•

PROJECT ID/NVISIT	O.: PROJECT TYPE: Ports and Harbor ITEM: Ell LOCATION: DATE O			
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	on System for Outdoor Electrical Works (Lightning arrester,			
Major	od, Air Terminal complete with accessories)			
PHWS-504-01	Conformance to the type/size of lightning arresters installed as required in the design and specifications	/	x	
PHWS-504-02	Conformance to the number of lightning arresters installed as required in the design and specifications	/	X	
PHWS-504-03	Conformance to the type/size of grounding wires as required in the design and specifications	/	x	
PHWS-504-04	Conformance to the type of air terminals including accessories as required in the design and specifications	/	=X	
PHWS-504-05	Conformance to the wire splicing requirements as required in the design and specifications	/	=x	
		/	=X	
		/	=X	
	For electrical works: refer to PHWS 903			
		/	=X	
		/	X	
		/	X	
		/	X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor LOCATION:	ITEM: Mechanical Works DATE OF VISIT: / /
Factor: "During Construction" - 0	40: "Upon Completion" – 0 50	

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	Score x factor	Action Monitor
	specific item of work is zero (0).			
tem 600 Stand-b	y Generators System			
Major				
PHWS-600-01	Conformance to the rated capacity of the generator set as required in the design and specifications	/	=X	
PHWS-600-02	Conformance to the engine type and engine power requirements as required in the design and specifications	/	=X	
PHWS-600-03	Conformance to the exhaust piping system as required in the design and specifications	/	=X	
		/	=X	
	For foundation and housing requirements of the generator set: refer to PHWS 900, 901, 902, 904, 905, 906, 907, 908 and 909			
		/	X	
	For electrical works: refer to PHWS 903			
		/	=X	
		/	X	
		/	X	
tem 601 A.C. Sys	stem / Cold Storage			
Major				
PHWS-601-01	Conformance with the quantity of cooling equipment as required in the design and specifications	/	X	
PHWS-601-02	Conformance with the required type/class of cooling equipment as required in the design and specifications	/	X	
PHWS-601-03	Conformance with the installation location of equipment as required in the design and specifications	/	X	
PHWS-601-04	Dimensions of the ducting are in accordance with the plans	/	=X	
		/	=X	
		/	=X	
Minor				
PHWS-601-05	Ventilation/air ducting are free from leaks	/	=X	
PHWS-601-06	Ducting is provided with insulation as required	/	=X	
		/	=X	
	For metal sheet ducting: refer to PHWS 910			
		/	=X	
	For electrical works: refer to PHWS 903			
		/	X	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		Rate = (a) / (b)	
			Rate	†
			=	ı

PROJECT ID/N VISIT	O.: PROJECT TYPE: Ports and Harbor LOCATION:		lechanical Wor F VISIT:    /   /	
Factor · "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	nical Ventilation (Roof Exhaust Fans, Kitchen Exhaust, Range			
Hood, Elevator Ex	thaust Fan)			
PHWS-602-01	Installed equipment and accessories are free from damage e.g. dents	/	=x	
PHWS-602-02	Conformance to the size and shape as required in the design and specifications	/	=X	
		/	X	
		/	X	
	For metal sheet ducting: refer to PHWS 910			
		/	=x	
		/	X	
		/	=x	
		/	X	
		/	=X	
		/	=X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	l)

PROJECT ID/N VISIT	O.: PROJECT TYPE: Ports and Harbor LOCATION:		Reclamation Wo	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action Monitor
Item 700 Reclama	ntion Works			
Major				
PHWS-700-01	Excavation/displacement of unsuitable materials to required depth	/	X	
PHWS-700-02	Use of suitable filling materials	/	X	
PHWS-700-03	Unsuitable materials are properly segregated from the other materials to be used for the project	/	X	
PHWS-700-04	Unsuitable materials are properly disposed to the approved disposal site	/	X	
PHWS-700-05	Conformance to lines and grades as per plans and specifications	/	=X	
PHWS-700-06	Installed approved surcharge materials, drain materials	/	X	
PHWS-700-07	Provision of drainage for surface run-off	/	X	
PHWS-700-08	Adequate compaction above sea level	/	X	
		/	X	
		/	X	
Minor				
PHWS-700-09	Provision of settlement plate	/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
			Total Score (a)	CAR Total
vvas subcontractor	used? If yes, name of company and owner: &		= No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	ı

PROJECT ID/NC VISIT	PROJECT TYPE: Ports and Harbor LOCATION:	ITEM: D DATE O	redging Works F VISIT: / /	
actor : "During C	construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
em 710 Dredging	Works			
/lajor*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Major	r Defects		
PHWS-710-01	Conformance to the dredging limits or areas to be dredged	/	=X	
PHWS-710-02	Conformance to the dredged depth as per plans and specifications	/	=X	
PHWS-710-03	Conformance to the appropriate dredging and support equipments as per specifications	/	=x	
PHWS-710-04	Proper disposal of dredged materials to the designated disposal area/site	/	x	
		/	x	
		/	x	
<i>linor</i>				
PHWS-710-02	Conformance to the allowable or approved tolerance for dredged depth	/	=X	
PHWS-710-05	Marking buoys evident on designated areas to be dredged	/	X	
		/	X	
		/	=x	
		/	=x	
		/	x	
		/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
			Total Score (a)	CAR Total
	used? If yes, name of company and owner: &		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	1

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor	ITEM: Special Items
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 800 Caisson	Type Breakwater (Formworks, Rebars, Concrete Bedding and			
	see common items of work for checklists/criteria)			
Major				
PHWS-800-01	Conformance to the approved/specified tolerances for lines, grades and elevation	/	=X	
		/	X =	
	For concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	=X	
		/	X	
		/	X	
Item 801 Concret	e Blocks/Tetropods (Dissipators)			
		/	=X	
	For concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	=X	
		/	=X	
		/	X =	
Item 802 Navigat	ional Aids (Beacon Poles and Lighting Fixtures, Marking Buoys)			
PHWS-802-01	Conformance to required location of Beacon Poles and Lighting Fixtures and Marking Buoys	/	X =	
PHWS-802-02	Conformance to the required cross-section and details	/	=X	
PHWS-802-03	Conformance to the required effective intensity of navigational light	/	=X	
PHWS-802-04	Conformance to the required luminous range of navigational light	/	=X	
PHWS-802-05	Conformance to the required number of flashes/flashing sign and color of navigational light	/	=X	
PHWS-802-06	Conformance to the required installation method	/	X =	
		/	X =	
		/	X =	
		/	=X	
		/	=X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor	ITEM: Common Items of Work
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 900 Formwo	rks			
PHWS-900-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X	
PHWS-900-02	Forms coated with mould oil as required	/	X	
PHWS-900-03	Sufficient bracing/support provided	/	=X	
PHWS-900-04	No loose knots, splits, cracks, etc.	/	=X	
PHWS-900-05	Provision of required concrete or steel spacer	/	=X	
PHWS-900-06	Conformance to dimensions, location, plumbness and alignment	/	=X	
PHWS-900-07	Provision of camber during construction stage	/	=X	
		/	=X	
		/	X	
		/	X	
Item 901 Reinford	cing Steel Bars (including tendons for Pre/Post-stressed concrete)			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Majo	r Defects		
PHWS-901-01	Conformance of in-placed materials to plans & specifications	/	X	
PHWS-901-02	Non-appearance of corrosion on steel reinforcement	/	X	
Minor				
PHWS-901-02	Non-appearance of rust on steel reinforcement	/	=X	
PHWS-901-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	X	
PHWS-901-04	No sign of oil, paint and other deleterious materials on reinforcements	/	=X	
PHWS-901-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X	
PHWS-901-06	Conformance to the required installation of ducktube e.g. (spacing, location and distance)	/	X	
PHWS-901-07	Conformance to the required steel plate and lock	/	X	
PHWS-901-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
			Total Score (a)	CAR Total
	r used? If yes, name of company and owner: &		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
•			= Rate	
				4

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor	ITEM: Common Items of Work
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50		•	1
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 902 Concret	e Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Majo	r Defects		
PHWS-902-01	No through cracks	/	x	
PHWS-902-02	No honeycomb or spalling (no exposed rebars/aggregates)	/	=x	
PHWS-902-03	No chipping off of concrete cover	/	=x	
PHWS-902-04	Proper and adequate vibration	/	=x	
PHWS-902-05	Conformance to finishing/plastering requirement	/	X	
PHWS-902-06	No sagging or bulging	/	X	
PHWS-902-07	Conformance to the required concrete cover for rebars	/	X	
PHWS-902-08	Conformance to the batching, mixing, transporting and discharge time requirements	/	X	
PHWS-902-09	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	X	
PHWS-902-10	Conformance to the jointing requirement	/	=x	
PHWS-902-11	Proper curing	/	X	
PHWS-902-12	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	X	
PHWS-902-13	Conformance to the required quality of concrete mix	/	X	
PHWS-902-14	Provision of camber for RCDG	/	X	
		/	X	
Minor				
PHWS-902-01	No cracks	/	X =	
PHWS-902-02	No honeycomb or spalling	/	=X	
PHWS-902-06	No sagging or bulging	/	=X	
PHWS-902-15	No water ponding on bearing plates	/	=X	
PHWS-902-16	Conformance to elevation of expansion joints	/	=X	
		/	X	
		/	X	
		/	=x	
		/	=x	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
			N	•

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor	ITEM: Electrical Works
VISIT	LOCATION:	DATE OF VISIT: / /

astor. During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 903 Electrica	al Works			
PHWS-903-01	Pipes installed according to plans and laid out according to approved construction drawings	/	X	
PHWS-903-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	X	
PHWS-903-03	Pipes properly bended	/	=x	
PHWS-903-04	Allowable number of wires in a pipe properly observed	/	X	
PHWS-903-05	Splicing and connection provided with adequate rubber and pvc tapes	/	X	
PHWS-903-06	Adequate length of wire provided for termination and splicing	/	=X	
PHWS-903-07	Wire color coding complied and observed	/	=X	
PHWS-903-08	Wire insulation not damaged during pulling	/	=x	
PHWS-903-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	X	
PHWS-903-10	Boxes and enclosures provided according to intended purpose	/	X	
PHWS-903-11	Fittings and accessories provided and properly installed	/	=X	
PHWS-903-12	Block-outs and sleeves provided and properly secured	/	X	
PHWS-903-13	Cable ties provided	/	=X	
PHWS-903-14	Blank covers provided for outlets and switches that are not utilized	/	=X	
PHWS-903-15	Use of tools and equipment properly observed	/	=X	
PHWS-903-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	X	
PHWS-903-17	Meager, clamp, phase sequence tests and load test conducted	/	X	
PHWS-903-18	Shop drawings, as-built plan maintained	/	X	
		/	=X	
		/	=X	
		/	=X	
		/	=X =	
		/	X =	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	D.
			Rate =	
				-

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor	ITEM: Common Items of Work
VISIT	LOCATION:	DATE OF VISIT: //

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 904 CHB Wa	all			
Major				
PHWS-904-01	Conformance to required quality of CHB	/	X	
PHWS-904-02	Conformance to required quality mortar mix	/	=x	
		/	X	
		/	X	
Minor				
PHWS-904-03	Conformance to specified tolerances for dimension, location, plumbness and alignment	/	=X	
PHWS-904-04	Proper spacing of horizontal and vertical bars	/	=X	
PHWS-904-05	Rebars used free from corrosion	/	=x	
		/	x	
		/	X	
		/	X	
Item 905 Doors	•			
PHWS-905-01	True to alignment, plumbness in conformance to the approved/specified tolerance	/	X	
PHWS-905-02	Doors are well fitted to the door frames	/	x	
PHWS-905-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers	/	X	
PHWS-905-04	Free from any form of damages	/	X	
PHWS-905-05	Doors conforms to specification requirements e.g. panel door, flush door polyvinyl, steel doors, etc.	/	X	
		/	x	
		/	X	
		/	x	
		/	X	
		/	x	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
			No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	

PROJECT ID/NC		 /all Finishes F VISIT: / /
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50	
	INDICATORS	
	Note: Spots with a single major defect shall forfeit all points for the rest of	 Score

-actor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
em 906 Plaster I	Finish			
PHWS-906-01	Conformance to designed mixture of plastering materials	/	X	
PHWS-906-02	Conformance to specified method of application and thickness of plastering	/	X	
PHWS-906-03	True to alignment	/	X	
PHWS-906-04	Free from any form of damages e.g. cracks, peeled-off plaster finish	/	X	
		/	X	
		/	X	
		/	X	
		/	=x	
em 907 Painting				
PHWS-907-01	Surface prepared according to specification	/	X	
PHWS-907-02	Required neutralizers, etc. applied	/	X	
PHWS-907-03	Applied paint appropriate to the surface	/	X	
PHWS-907-04	Specified number of coats applied	/	X	
PHWS-907-05	Surfaces evenly painted, proper opacity	/	X	
PHWS-907-06	No discoloration and peeling-off of paint	/	=x	
PHWS-907-07	Paints conform to specification/requirements	/	X	
PHWS-907-08	Surface are properly applied with putty/patching compound	/	X	
		/	X	
		/	X	
		/	X	
		/	=x	
		/	X	
		/	X	
		/	X	
/as subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
ntered by:	Date: / /		Rate = (a) / (b)	
			Rate	
			-	L

PROJECT ID/NO.:	PROJECT TYPE: Ports and Harbor	ITEM: Sewer & Drainage System
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 908 Pipe Cu	vert and Storm Drain			
PHWS-908-01	Bedding and backfill materials compacted to the required density	/	X	
PHWS-908-02	Proper jointing of pipes	/	X	
PHWS-908-03	Mortar for jointing of reinforced concrete culvert pipes conforms to specified mixture type	/	x	
PHWS-908-04	Adequate collaring of reinforced concrete culvert pipes	/	X	
PHWS-908-05	Conformance to the approved/specified tolerance for elevation, slope, and alignment	/	X	
PHWS-908-06	Cracks, honeycomb, chipping-off within specified tolerances	/	X	
PHWS-908-07	Sufficient collaring & flushing	/	X	
PHWS-908-08	Conformance to the approved quality of concrete mix	/	=X	
PHWS-908-09	Spacing and sizes of rebars conform to specification	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Item 909 Manhole	es, Inlets and Catch Basin			
PHWS-909-01	Conformance to approved/specified tolerances for dimensions and elevations	/	X	
PHWS-909-02	Covers and gratings well fitted and can easily be opened during maintenance work	/	X	
PHWS-909-03	Honeycomb, cracks, spalling, etc. within specified tolerance	/	X	
PHWS-909-04	Conformance to approved quality of concrete mix	/	X	
PHWS-909-05	Spacing and sizes of rebars conform to specification	/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	
			<b></b>	

	CPES CHECKLIST FOR WORKIMANS	опіР		
PROJECT ID/NC	PROJECT TYPE: Ports and Harbor LOCATION:		oofing System F VISIT: / /	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 910 Sheets				
PHWS-910-01	Conformance to the specified gauge, length, etc.	/	X	
PHWS-910-02	Conformance to the specified overlapping, sealing of joints, fastening	/	X	
PHWS-910-03	Installation of flashing, gutters, ridge rolls, downspouts, etc. according to plans	/	X	
PHWS-910-04	Non-occurrence of leaks	/	X	
PHWS-910-05	Free from any form of damage	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=x	
		/	= X	
		/	= X	
		/	= X	
		/	= X	
		/	=X	
		/	=X	
		/	X	
		/	=X	
		/	X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total

2C-26

Date: / /

No. of Indicators (b)

Rate = (a) / (b) Rate

\_\_\_\_\_ & \_\_\_\_

Entered by:\_\_\_\_\_

# ANNEX 2-D

# **CHECKLIST FOR IRRIGATION**

Item 002	Clearing and Grubbing	2D-1
Item 003	Diversion and Care of River During Construction	
	and Dewatering of Foundation	2D-2
Item 004	Canal/Channel Excavation	2D-3
Item 006	Structure Excavation	2D-4
Item 007	Drilling and Grouting	2D-5
Item 008	Farm and Drainage Ditch Construction	2D-6
Item 009	Overhaul	2D-7
Item 010	Side Borrow	2D-8
Item 011	Borrow Haul	2D-9
Item 012	Structure Backfill	2D-10
Item 013	Embankment Construction and Compaction	2D-11
Item 014	Roads	2D-12
Item 015	Concrete Works	2D-13
Item 016	Concrete Demolition Works	2D-14
Item 018	Shotcrete	2D-15
Item 019	Rubble Masonry	2D-16
Item 020	Concrete Canal Lining	2D-17
Item 021	Concrete Joints and Joint Materials	2D-18
Item 022	Dowels	2D-19
Item 023	Reinforcing Steel Bars	2D-20
Item 024	Reinforced Concrete Pipes	2D-21
Item 025	Boulder Riprap	2D-22
Item 026	Gabion-type Riprap	2D-22
Item 027	Grouted Riprap	2D-22
Item 028	Gravel Blanket	2D-23
Item 029	Filter Drain	2D-24
Item 030	Plain Concrete Drain Pipe	2D-25
Item 031	Reinforced Concrete Piles	2D-26
Item 032	Steel Sheet Piles	2D-27
Item 033	Steel Gates and Lifting Mechanism	2D-28
Item 034	Steel Pipe Manhole, Blow-off Valve and Manhole Cover	2D-29
Item 035	Miscellaneous Metal Works and Materials	2D-30
Item 036	Painting	2D-31
Item 037	Asphalt Concrete Surfacing – Plant Mix	2D-32
Item 038	Pressure Relief Valve	2D-33
Item 039	Bio-Engineering for Erosion Control and Slope Stabilization	2D-34

Visit	Contract No.:	Proje	ect Type:	IRRIGATIO	<u>N</u>	
SUB-ITEM CODE   INDICATORS   SUB-ITEM CODE   Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than filly percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).    Item 002 Clearing and Grubbing   Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects						
Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).    Item 002 Clearing and Grubbing	Date of Visit:	Facto	or :		-	
SUB-ITEM CODE  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (30%) of the total number of spots, the rating for that specific item of work is zero (0).  Item 002 Clearing and Grubbing  Major*  Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects  RWS-002-01  RWS-002-01  RWS-002-01  Existing adjacent facilities, properties and utilities are protected from damages  The entire right of way for irrigation structures borrow and stockfile area cleared of all vegetation, trees except those to be preserved  RWS-002-03  Swampy and/or second growth forested areas suitably dried prior to clearing  RWS-002-04  Proper disposal of combustible materials  Unsuitable materials completely removed up to specified/ designed depth  Total Score Total CAR  (a)  No. of Indicators  (b)	FACTOR	: "During Construction" = 0.40; "Upon Completion"	= 0.50			
Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects   Existing adjacent facilities, properties and utilities are   x   protected from damages		Note: Spots with a single major defect shall forfeit all points the indicators in the said spot. Further, if the number of con- less than fifty percent (50%) of the total number of spots, th	nplying spots is	RESULTS		
Existing adjacent facilities, properties and utilities are protected from damages	Item 002 Clea	ring and Grubbing				
Protected from damages   Protected from dama	Major*	* Refer to Section 11.4a of the CPES Guidelines for de	efinition of Ma	jor Defects		
Existing adjacent facilities, properties and utilities are protected from damages   forties and utilities are protected from damages   forties right of way for irrigation structures borrow   x   x   x   x   x   x   x   x   x	IRWS-002-01		s are	1	x =	
The entire right of way for irrigation structures borrow and stockfile area cleared of all vegetation, trees except those to be preserved  IRWS-002-03  Swampy and/or second growth forested areas suitably dried prior to clearing  IRWS-002-04  Proper disposal of combustible materials  IRWS-002-05  Unsuitable materials completely removed up to specified/ designed depth  / =   /	Minor					
IRWS-002-02 and stockfile area cleared of all vegetation, trees except those to be preserved  IRWS-002-03 Swampy and/or second growth forested areas suitably dried prior to clearing  IRWS-002-04 Proper disposal of combustible materials  IRWS-002-05 Unsuitable materials completely removed up to specified/designed depth  IRWS-002-06 In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth  In a suitable materials completely removed up to specified/designed depth a suitable materials completely removed up to specified/designed depth a suitable materials completely removed up to specified/designed depth a suitable materials completely removed up to specified/designed depth a suitable removed up to specified/designed depth a suitable removed up to s	IRWS-002-01		s are	1	x =	
IRWS-002-04 Proper disposal of combustible materials  IRWS-002-05 Unsuitable materials completely removed up to specified/ designed depth  I	IRWS-002-02	and stockfile area cleared of all vegetation, trees		1		
IRWS-002-05  Unsuitable materials completely removed up to specified/ designed depth    X	IRWS-002-03		iitably	1	x =	
designed depth	IRWS-002-04	Proper disposal of combustible materials		1	x =	
Was subcontractor used? If yes, name of company and owner  and  Total Score (a)  No. of Indicators (b)  (a)/(b)=	IRWS-002-05		specified/	1		
Was subcontractor used? If yes, name of company and owner and  Was subcontractor used? If yes, name of company and owner and  (a)/(b)=				1	x =	
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)/(b)=				1		
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)/(b)=						
(b) (a)/(b)=						Total CAR
(a)/(b)=	Was subcontrac					<u> </u> 
	Entered by:		te:		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
	_Visit Location :			
Date of Visit:	Factor :		_	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
SUB-ITEM	Note: Spots with a single major defect shall forfeit all points for the rest of	DECLUTO	00005	ACTION/
CODE	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	RESULTS	SCORE	MONITOR
	specific item of work is zero (0).		Result x factor	
	rsion and Care of River During Construction and atering of Foundation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects		
IRWS-003-01	Conformance to agency approved plan on the types,	1	х	
IKW3-003-01	location, arrangement of river diversion	,	=	
Minor				
IRWS-003-01	Conformance to agency approved plan on the types,	1	Х	
11(1/05-005-01	location, arrangement of river diversion	,	=	
IRWS-003-02	Construction operations performed in the dry	1	х	
117770-003-02	Construction operations performed in the dry	,	=	
		1	Х	
		•	=	
		1	X	
			=	
			Total Score	Total CAR
			(a)	TOTAL CAIX
			(a)	
Was subcontrac	etor used? If yes, name of company and owner		No. of Indicators	
ao oaboonilat	access and the second company and common		(b)	
	and		(5)	
			(-\\(\(\tau\)\)	
Entered by:	Date:		(a)/(b)=	
-				

Contract No.:	Project T	ype:	IRRIGATIO	<u> </u>	
		:			
Date of Visit:	Factor	:			
540 <b>7</b> 00	IIDada a Carata di alla a				
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.5	0	_		
	INDICATORS				
SUB-ITEM	Note: Spots with a single major defect shall forfeit all points for the indicators in the said spot. Further, if the number of complyin			SCORE	ACTION/
CODE	less than fifty percent (50%) of the total number of spots, the ratio	g spois is na for that		Result x factor	MONITOR
	specific item of work is zero (0).	.9		Nesult X factor	
Item 004 Cana	I/Channel Excavation				
Major					
,	No damages on adjoining structures, no unduly large			х	
IRWS-004-01	excavation and no destabilization of grounds occurre		1	=	
	after blasting				
IDWC 004 00	Slope protection from land sliding in deep cut excava	tion	,	х	
IRWS-004-02	provided		/	=	
Minor					
IRWS-004-03	Horizontal and vertical controls are complete and		,	х	
IKVVS-004-03	properly established		<b>'</b>	=	
	Excavation true to lines, slopes and profiles as		,	х	
IRWS-004-04	shown on the drawings		/	=	
IRWS-004-05	Drilling and blasting operation approved by the agence	°V	1	х	
111110 004 00		, y	,	=	
IRWS-004-06	Work area cleaned and cleared, foreign materials		1	Х	
	properly disposed			=	
			1	X	
			,	x	
			/	=	
<u> </u>				Total Score	Total CAR
				(a)	
Was subcontract	ctor used? If yes, name of company and owner			No.of Indicators	
				(b)	
	and				
Entered by:	Date:			(a)/(b)=	
Entorod by.					

Contract No.:	Project Type	):	IRRIGATIO	<u>N</u>	
		:			
Date of Visit:	Factor	:		<u>-</u>	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50				
	INDICATORS		1	Ι	
SUB-ITEM CODE	Note: Spots with a single major defect shall forfeit all points for the inthe indicators in the said spot. Further, if the number of complying spless than fifty percent (50%) of the total number of spots, the rating for specific item of work is zero (0).	oots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 006 Stru	cture Excavation				
Major					
IRWS-006-01	No damages to adjoining structures due to improper blasting		/	x =	
IRWS-006-02	Slope protection from land sliding in deep cut excavation provided		1	x =	
Minor					
IRWS-006-03	Excavation and compaction of foundation true to lines and grades		1	x =	
IRWS-006-04	Conformance to concrete backfilling or embankment and compaction for over excavated materials	d	1	x =	
IRWS-006-05	Provision of side & bottom weepholes on rock excavatio	n	1	x =	
IRWS-006-06	Surface where concrete will be placed trimmed and cleaned thoroughly		1	x =	
			/	X =	
			1	X =	
				Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner			No. of Indicators (b)	
Entered by:	Date:			(a)/(b)=	
_morea by.					

Date of Visit:   Cocation   Factor	Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50  INDICATORS  SUB-ITEM CODE  Note: Spots with a single major defect shall furfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is greated from the work is zero (i).  Item 007 Drilling and Grouting  Major  IRWS-007-01  Holes drilled in proper location, direction and depth as shown on the drawings  IRWS-007-02  Drilling and blasting of holes done in accordance to specification and construction methodology  Minor  IRWS-007-03  Surfaces affected by drilling and grouting operations cleaned and restored  IRWS-007-04  Steel pipes installed according to plans and specifications  IRWS-007-05  Accurate geological logs of all exploratory holes drilled provided  Records of all exploratory holes and grouting operations submitted in accordance with agreed form of drawings  IRWS-007-06  Was subcontractor used? If yes, name of company and owner  ACTION  ACTION  RESULTS  SCORE RESULTS  RESULTS  SCORE RESULTS  SCORE RESULTS  ACTION  MONITOR  ACTION  INDICATOR S  RESULTS  SCORE Result x factor  INDICATOR S  RESULTS  RESUL		_Visit Location :			
SUB-ITEM   Note: Spots with a single major detect shall forfiel all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the railing for that specific item of work is zero (0).    Item 007 Drilling and Grouting   Major   Holes drilled in proper location, direction and depth as shown on the drawings	Date of Visit:	Factor :		-	
SUB-ITEM CODE  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (20%) of the total number of spots, the retiring for that specific item of work is zero (0).  Item 007 Drilling and Grouting  Major  IRWS-007-01  RWS-007-02  IRWS-007-02  Brilling and blasting of holes done in accordance to specification and construction methodology  Minor  IRWS-007-03  Surfaces affected by drilling and grouting operations cleaned and restored  IRWS-007-04  Steel pipes installed according to plans and specifications  Accurate geological logs of all exploratory holes drilled provided  Records of all exploratory holes and grouting operations submitted in accordance with agreed form of drawings and reports  Was subcontractor used? If yes, name of company and owner and grouting company and grouting spots and grouting company and grouting company and grouting c	FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
Major   Holes drilled in proper location, direction and depth as   x   shown on the drawings     =		Note: Spots with a single major defect shall forfeit all points for the res the indicators in the said spot. Further, if the number of complying spot less than fifty percent (50%) of the total number of spots, the rating for	s is RESULTS		
Revision	Item 007 Drilli	ng and Grouting			
Shown on the drawings   7	Major				
IRWS-007-02   Drilling and blasting of holes done in accordance to specification and construction methodology   x   =	IRWS-007-01		1		
Minor   IRWS-007-03   Surfaces affected by drilling and grouting operations	IRWS-007-02	Drilling and blasting of holes done in accordance to	/	X =	
IRWS-007-04   Steel pipes installed according to plans and specifications	Minor				
IRWS-007-05  Accurate geological logs of all exploratory holes drilled provided  Records of all exploratory holes and grouting operations submitted in accordance with agreed form of drawings and reports  / =	IRWS-007-03		1	X =	
Total Score (a)   Total CAR (a)   No. of Indicators (b)   and   (a)/(b)=	IRWS-007-04	Steel pipes installed according to plans and specifications	I	X =	
Records of all exploratory holes and grouting operations submitted in accordance with agreed form of drawings and reports	IRWS-007-05		1	X =	
Was subcontractor used? If yes, name of company and owner  and  Total Score (a)  No. of Indicators (b)  (a)/(b)=	IRWS-007-06	Records of all exploratory holes and grouting operations submitted in accordance with agreed form of drawings	/		
Was subcontractor used? If yes, name of company and owner and  (a)  No. of Indicators (b)  (a)/(b)=			1	X =	
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)/(b)=			/	X =	
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)/(b)=					
(a)/(b)=	Was subcontrac			(a) No. of Indicators	
	Entered by:			(a)/(b)=	

Contract No.:	Pro_	ject Type :	IRRIGATIO	<u>N</u>	
		ation :			
Date of Visit:	Fac	tor :		-	
FACTOR	: "During Construction" = 0.40; "Upon Completion	" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all poin the indicators in the said spot. Further, if the number of colless than fifty percent (50%) of the total number of spots, to specific item of work is zero (0).	omplying spots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 008 Farm	and Drainage Ditch Construction				
Major					
IRWS-008-01	Location and alignment conforms to plan and m	aps	1	X	
Minor					
IRWS-008-02	Excavation conforms to the section and dimens shown on the drawings	ion as	1	x =	
IRWS-008-03	Areas saturated before excavation		1	x =	
IRWS-008-04	Conformance to required density or degree of compaction of filling materials		1	X =	
IRWS-008-05	Compacted embankment constructed true to lin grades dimensions and prepared foundation	es,	1	x =	
	g.aacc ac.c.c.c.c.c.a.repeacca.ca.naanc		1	x	
			1	_ X =	
Was subcontrac	tor used? If yes, name of company and owner and	ate:		Total Score (a)  No. of Indicators (b)  (a)/(b)=	Total CAR

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
	_Visit Location :			
Date of Visit:	Factor :		_	
FACTOR:	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest the indicators in the said spot. Further, if the number of complying spots less than fifty percent (50%) of the total number of spots, the rating for to specific item of work is zero (0).	is RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 009 Overh	naul			
Major				
IRWS-009-01	Source and location of overhaul materials acceptable as to quality and quantity approved by the Engineer	1	X =	
Minor				
IRWS-009-02	Overhaul materials for embankment or structure backfill free from organic materials	1	X =	
IRWS-009-03	Waste materials properly placed in waste disposal areas, leveled and slope to drain	1	X	
	10 Total and otopo to drain	1	x =	
		1	x	
Was subcontrac	tor used? If yes, name of company and owner		Total Score (a)  No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
5	_Visit Location :			
Date of Visit:	Factor :		-	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 010 Side	Borrow			
Major				
IRWS-010-01	Conformance to compaction methodology	1	x =	
IRWS-010-02	Borrow area leveled, destroyed paddies restored	1	X =	
Minor				
IRWS-010-03	Top soil material on side borrow areas properly cleared and grubbed	/	X =	
IRWS-010-04	Conformance to lines, grades and depth of excavation	1	X =	
		1	X =	
		1	X	
Was subcontrac	etor used? If yes, name of company and owner		Total Score (a)  No. of Indicators (b)	Total CAR
Entered by:	Date:		(a)/(b)=	

Item 011 Borrow Haul  Major Source and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer  Minor IRWS-011-02 Borrow haul pits properly staked, cleared, grubbed, stripped of all unsuitable materials IRWS-011-03 Right of way properly acquired and accessed IRWS-011-04 Haul roads constructed and properly maintained IRWS-011-05 Stripped top soil returned to smooth and even surface IRWS-011-06  Stripped top soil returned to smooth and even surface IRWS-011-06  Total Score (a)  No. of Indicators (b)  No. of Indicators (b)  (a)/(h)=	Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
SUB-ITEM CODE INDICATORS SUB-ITEM CODE INDICATORS  SUB-ITEM CODE Indicators in the said spot. Further, if the number of complying spots is less than filty percent (0%) of the total number of spots, the rating for that specific item of work is zero (0).  INDICATORS  Note: Spots with a single major defect shall forfiet all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than filty percent (0%) of the total number of spots, the rating for that specific item of work is zero (0).  IRWS-011-01 Source and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer  Minor  IRWS-011-02 Source and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer  Minor  IRWS-011-03 Right of way properly staked, cleared, grubbed, from the property of all unsuitable materials  IRWS-011-04 Haul roads constructed and properly maintained  IRWS-011-05 Borrow pits properly drained  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  INDICATORS  Total Score (a)  No. of Indicators (b)  No. of Indicators (b)					
SUB-ITEM CODE  SUB-ITEM CODE  SUB-ITEM CODE  SUB-ITEM CODE  Note: Spots with a single major defect shall forfiet all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).  Item 011 Borrow Haul  Major  IRWS-011-01  Source and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer  Minor  IRWS-011-02  Borrow haul pits properly staked, cleared, grubbed, stripped of all unsuitable materials  IRWS-011-04  Haul roads constructed and properly maintained  IRWS-011-05  Borrow pits properly drained  IRWS-011-06  Stripped top soil returned to smooth and even surface  J X =	Date of Visit:	Factor :		-	
SUB-ITEM CODE  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said apoit. Further, if the number of complying spot is less than fifthy percent (20%) of the total number of spots, the rating for that specific item of work is zero (i).  Item 011 Borrow Haul  Major  Source and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer  Minor  IRWS-011-01  Borrow haul pits properly staked, cleared, grubbed, stripped of all unsuitable materials  IRWS-011-03  Right of way properly acquired and accessed  IRWS-011-04  Haul roads constructed and properly maintained  IRWS-011-05  Borrow pits properly drained  IRWS-011-06  Stripped top soil returned to smooth and even surface  J X =	FACTOR	R: "During Construction" = 0.40; "Upon Completion" = 0.50			
Major   Source and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer   Source and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer   Source and location of borrow haul materials   X		Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	RESULTS		ACTION/ MONITOR
IRWS-011-01 score and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer  Minor  IRWS-011-02 Borrow haul pits properly staked, cleared, grubbed, stripped of all unsuitable materials  IRWS-011-03 Right of way properly acquired and accessed  IRWS-011-04 Haul roads constructed and properly maintained  IRWS-011-05 Borrow pits properly drained  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Indicators  IRWS-011-06	Item 011 Borr	ow Haul			
IRWS-011-01 acceptable as to quality and quantity approved by the Engineer  Minor  IRWS-011-02 Borrow haul pits properly staked, cleared, grubbed, stripped of all unsuitable materials  IRWS-011-03 Right of way properly acquired and accessed  IRWS-011-04 Haul roads constructed and properly maintained  IRWS-011-05 Borrow pits properly drained  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 IT Total Score (a)  No. of Indicators (b)  No. of Indicators  (b)	Major				
Borrow haul pits properly staked, cleared, grubbed, stripped of all unsuitable materials	IRWS-011-01	acceptable as to quality and quantity approved	1		
IRWS-011-02 stripped of all unsuitable materials  IRWS-011-03 Right of way properly acquired and accessed  IRWS-011-04 Haul roads constructed and properly maintained  IRWS-011-05 Borrow pits properly drained  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 If yes, name of company and owner  (a)  Total Score Total CAR (b)  No. of Indicators (b)	Minor				
IRWS-011-04 Haul roads constructed and properly maintained  IRWS-011-05 Borrow pits properly drained  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 IRW	IRWS-011-02		1	x =	
IRWS-011-04 Haul roads constructed and properly maintained  IRWS-011-05 Borrow pits properly drained  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  IRWS-011-06 Stripped top soil returned to smooth and even surface  I	IRWS-011-03	Right of way properly acquired and accessed	1		
IRWS-011-06 Stripped top soil returned to smooth and even surface    X	IRWS-011-04	Haul roads constructed and properly maintained	1	X =	
Was subcontractor used? If yes, name of company and owner  Was and  Total Score (a)  No. of Indicators (b)  [a]//(b]=	IRWS-011-05	Borrow pits properly drained	1	x =	
Was subcontractor used? If yes, name of company and owner  and  Total Score (a)  No. of Indicators (b)  (a)//(b)=	IRWS-011-06	Stripped top soil returned to smooth and even surface	1		
Was subcontractor used? If yes, name of company and owner  and  Total Score (a)  No. of Indicators (b)  (a)/(b)=			1	X =	
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)  No. of Indicators (b)  (a)/(b)=			1		
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)  No. of Indicators (b)  (a)/(b)=					
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)  No. of Indicators (b)  (a)/(b)=					
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)  No. of Indicators (b)  (a)/(b)=					
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)  No. of Indicators (b)  (a)/(b)=					
and (b)(a)/(b)=		I	<u>I</u>		Total CAR
(a)/(b)=	Was subcontrac				
	Entered by:	Date:		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
Data of Visite	_Visit Location :			
Date of Visit:	Factor :		-	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 012 Struc	eture Backfill			
Major				
IRWS-012-01	Compliance to proper construction methodology (compacted layers as specified)	1	x =	
Minor				
IRWS-012-02	Proper removal of rubbish, mud, loose materials	1	= X	
IRWS-012-03	Dewatering of excavation pit conducted	1	x =	
IRWS-012-04	Conformance to required degree of compaction	/	x =	
		1	x =	
		1	x	
			Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:	Proje	ect Type:	IRRIGATIO	<u>N</u>	
	Visit Loca	tion :			
Date of Visit:	Factor	or :		-	
FACTOR	: "During Construction" = 0.40; "Upon Completion"	= 0.50			
CUD ITEM	INDICATORS  Note: Spots with a single major defect shall forfeit all points	s for the rest of			ACTION/
SUB-ITEM CODE	the indicators in the said spot. Further, if the number of con less than fifty percent (50%) of the total number of spots, th specific item of work is zero (0).	nplying spots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 013 Emba	ankment Construction and Compaction				
Major					
IRWS-013-01	Constructed in horizontal layers, thickness of lay not exceeding 15 cm. after compaction	ers	1	x =	
IRWS-013-02	Conformance to required equipment		1	X =	
IRWS-013-03	Conformance to required degree of compaction		1	x =	
Minor					
IRWS-013-04	Compacted embankment constructed true to line grades, dimensions and prepared foundations	es,	1	X =	
IRWS-013-05	Ground surface scarified to the desired depth		1	= X	
IRWS-013-06	Unsuitable materials removed and replaced with materials	suitable	1	x =	
IRWS-013-07	Top soil of the foundation area for swampy grour stripped	nd	1	x =	
IRWS-013-08	Slope of hillside horizontally cut when embankme made on hillside (parallel, abutting, crossing over		1	x =	
IRWS-013-09	Slope of hillside recompacted along with new embankment materials		1	x =	
IRWS-013-10	Proper surface drainage provided		1	x =	
			1	x =	
			1	x =	
				Total Score	Total CAR
				(a)	
Was subcontrac	etor used? If yes, name of company and owner			No. of Indicators	
	and			(b)	
Entered by:	Da	te:		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
	Visit Location :			
Date of Visit:	Factor :		-	
FACTOR:	"During Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
SUB-ITEM CODE	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 014 Roads	s			
Major				
IRWS-014-01	In-placed materials conforms with plans and specifications	1	x =	
IRWS-014-02	Conformance to required degree of compaction	1	x =	
Minor				
IRWS-014-03	Conformance to proper construction methodology	1	x =	
IRWS-014-04	Road surfacing materials and shoulder materials did not mix during spreading	1	x =	
IRWS-014-05	Conformance to the lines, grades and dimensions as indicated in the plans and specifications	1	x =	
IRWS-014-06	Non-occurrence of irregular surface/depression	I	x =	
IRWS-014-07	Blending filler for top coarse materials conforms to specifications	1	X =	
		I	X =	
		1	X =	
			Total Score (a)	Total CAR
Was subcontract	tor used? If yes, name of company and owner		No. of Indicators (b)	
	and			
Entered by:	Date:		(a)/(b)=	

	CPES CHECKLIST FOR WORKMAN	SHIP		
Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
Date of Visit:	_Visit Location : Factor :			
			-	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest the indicators in the said spot. Further, if the number of complying spots less than fifty percent (50%) of the total number of spots, the rating for the specific item of work is zero (0).	is RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 015 Conc	rete Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of M	lajor Defects		
IRWS-015-01	No through cracks	1	= X	
IRWS-015-02	No honeycomb or spalling (no exposed rebars/aggregates)	1	X =	
IRWS-015-03	No sagging or bulging	1	X	
IRWS-015-04	Conformance to the required quality of concrete mix	1	X =	
IRWS-015-05	Provision of camber for RCDG	1	X =	
Minor				
IRWS-015-01	No cracks	1	= X	
IRWS-015-02	No honeycomb or spalling	1	X =	
IRWS-015-03	No sagging or bulging	1	X =	
IRWS-015-06	No chipping off of concrete cover	1	x =	
IRWS-015-07	Proper and adequate vibration	1	X =	
IRWS-015-08	Conformance to finishing/plastering requirement	1	X =	
IRWS-015-09	Conformance to the required concrete cover for rebars	1	X =	
IRWS-015-10	Conformance to the batching, mixing, transporting and discharge time requirements	1	X =	
IRWS-015-11	Conformance to placing requirements that will not result to segregation of aggregates, cold joints and misalignment	1	x =	
IRWS-015-12	Conformance to the jointing requirement	1	X =	
IRWS-015-13	Proper curing	1	X =	
IRWS-015-14	Conformance to the required dimensions, lines, grades/elevation, locations and crown (for pier)	1	x =	
IRWS-015-15	No water ponding on bearing plates	1	X =	
IRWS-015-16	Conformance to elevation of expansion joints	1	X =	
Was subcontrac	ctor used? If yes, name of company and owner		Total Score (a)  No. of Indicators	Total CAR
			(b)	

Date:

(a)/(b)=

and

Entered by:

Contract No.:		Type:	IRRIGATIO	<u>N</u>	
	_Visit Locatio	on :			
Date of Visit:	Factor	:		-	
FACTOR	: "During Construction" = 0.40; "Upon Completion" =	0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the indicators in the said spot. Further, if the number of compound less than fifty percent (50%) of the total number of spots, the inspecific item of work is zero (0).	ying spots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 016 Conc	rete Demolition Works				
IRWS-016-01	Undertaken according to plans, operations (drilling, blasting)		1	X =	
IRWS-016-02	Proper removal/disposal of demolished structure		1	x =	
IRWS-016-03	Non-occurrence of damages to the entire/adjacent structure		1	x =	
				Total Score (a)	Total CAR
Was subcontrac	tor used? If yes, name of company and owner and	_		No of Idicators (b)	
Entered by:	Date	- :		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
Date of Visit:	_Visit Location : Factor :			
			•	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 018 Shot	crete			
Major				
IRWS-018-01	Adherence to proper construction methodology	1	x =	
IRWS-018-02	Class of shotcrete conforms to specs	1	x =	
Minor				
IRWS-018-03	Surfaces to be in contact with shotcrete prepared/cleaned	1	x =	
IRWS-018-04	Proper curing applied	1	x =	
IRWS-018-05	Drainage holes penetrated into the rock according to plans and specifications	1	x =	
IRWS-018-06	Welded wire/chain-link fabric free from intensive rust, mud, grease, wax, foreign materials	1	X =	
IRWS-018-07	Welded wire/chain-link fabric installed according to plans and specifications	1	X =	
IRWS-018-08	Rebounded concrete not used again as spray materials	1	X =	
			Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	
				1

Contract No.:	Project	Type:	IRRIGATIO	<u>N</u>	
	_Visit Locatio	n :			
Date of Visit:	Factor	:		-	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0	0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the indicators in the said spot. Further, if the number of comply less than fifty percent (50%) of the total number of spots, the respecific item of work is zero (0).	ing spots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 019 Rubb	le Masonry				
Major					
IRWS-019-01	Conformance to proper construction methodology		1	X =	
IRWS-019-02	Conformance to specified size		1	X =	
Minor					
IRWS-019-03	Rubble stones installed are clean, sound, durable, resistant to action of water		1	x =	
IRWS-019-04	Stones thoroughly wet and properly covered with cobinder	oncrete	1	x =	
IRWS-019-05	Conformance to lines, grades and dimensions		1	x =	
IRWS-019-06	Non-occurrence of voids		1	x =	
Was subcontrac	tor used? If yes, name of company and owner			Total Score (a)  No. of Indicators (b)	Total CAR
Entered by:	Date:			(a)/(b)=	

Contract No.:	Project Ty	pe:	IRRIGATIO	<u>N</u>	
Date of Visit:	_Visit Location Factor	:			
Date of visit.	Factor			=	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50	)			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the indicators in the said spot. Further, if the number of complying less than fifty percent (50%) of the total number of spots, the rating specific item of work is zero (0).	spots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 020 Conc	rete Canal Lining				
Major					
IRWS-020-01	Non displacement of in-placed concrete lining panels		1	x =	
IRWS-020-02	Flap valve weeps installed in accordance to the drawir	ngs	1	x =	
IRWS-020-03	Conformance to proper construction methodology		1	x =	
Minor					
IRWS-020-04	Trimming according to lines, grades, elevations, dimensions, and cross-sections		1	x =	
IRWS-020-05	Impregnated building paper installed prior to concrete pouring		1	x =	
IRWS-020-06	Conformance to the locations of construction joints as shown in the drawings		/	x =	
IRWS-020-07	Surface of the lining finished as specified		1	X =	
IRWS-020-08	Cold joints are in horizontal and vertical lines		1	x =	
IRWS-020-09	Conformance to jointing requirements		1	x =	
				Total Score (a)	Total CAR
Was subcontrac	tor used? If yes, name of company and owner and			No. of Indicators (b)	
Entered by:	Date:			(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
Date of Visit:	_Visit Location : Factor :		_	
540705				
FACTOR	t: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest the indicators in the said spot. Further, if the number of complying spots less than fifty percent (50%) of the total number of spots, the rating for the specific item of work is zero (0).	is RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 021 Cond	crete Joints and Joint Materials			
Major				
IRWS-021-01	Conformance to plans and specifications	1	X =	
IRWS-021-02	Contraction and expansion joints constructed at locations indicated in the drawings	/	x =	
Minor				
IRWS-021-03	Non-occurrence of feather edges	/	x =	
IRWS-021-04	No chipped-off edges or corners	/	x =	
IRWS-021-05	Provision of required amount of sealant	1	x =	
IRWS-021-06	Provision of waterstops	1	x =	
		1	x =	
	•	ı	Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:	Project Tyl	oe:	IRRIGATIO	<u>N</u>	
	_Visit Location	:			
Date of Visit:	Factor	:		-	
FACTOR	. "During Construction" 0.40. "Upon Completion" 0.50				
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50	,	1		
SUB-ITEM	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the				ACTION/
CODE	the indicators in the said spot. Further, if the number of complying less than fifty percent (50%) of the total number of spots, the rating specific item of work is zero (0).			SCORE Result x factor	MONITOR
Item 022 Dowe	els				
Major					
IRWS-022-01	In-placed materials conform with plans and specifications		1	x =	
Minor					
IRWS-022-02	Provision of square nut threaded into the end of dowel	bar	1	x =	
IRWS-022-03	Properly secured or held in place with cement grout as specified on the drawings	i	1	x =	
IRWS-022-04	Drilled dowel holes in accordance with the approved drawings		1	x =	
	J. J.		1	x =	
			1	x =	
				_	
				Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner			No. of Indicators	
	and			(b)	
Entered by:	Date:			(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
	Visit Location :			
Date of Visit:	Factor :		_	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots it less than fifty percent (50%) of the total number of spots, the rating for the specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 023 Reint	forcing Steel Bars			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of M	ajor Defects		
IRWS-023-01	Conformance of in-placed materials to plans and specifications	1	x =	
IRWS-023-02	Non-appearance of corrosion on steel reinforcement	1	x =	
Minor				
IRWS-023-02	Non-appearance of rust on steel reinforcement	1	x =	
IRWS-023-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	1	x =	
IRWS-023-04	No sign of oil, paint and other deleterious materials on reinforcements	/	x =	
IRWS-023-05	Conformance to jointing requirements, i.e., splicing, welding, etc.	/	x =	
IRWS-023-06	Conformance to the required installation of ducktube (e.g. spacing, location and distance)	/	X =	
IRWS-023-07	Conformance to the required steel plate and lock	1	x =	
IRWS-023-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	1	x =	
		/	x =	
		1	X	
	•	•	Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	
			•	

Contract No.:	Pro	ject Type :	IRRIGATIO	<u>N</u>	
	_Visit Loc	ation :			
Date of Visit:	Fac	tor :		_	
FACTOR	: "During Construction" = 0.40; "Upon Completion	" = 0.50			
	INDICATORS				
SUB-ITEM CODE	Note: Spots with a single major defect shall forfeit all poin the indicators in the said spot. Further, if the number of co			SCORE	ACTION/ MONITOR
OODL	less than fifty percent (50%) of the total number of spots, a specific item of work is zero (0).	he rating for that		Result x factor	WONTOR
Item 024 Reinf	orced Concrete Pipes				
Major					
IRWS-024-01	Conformance to the required/approved tolerand slope, alignment, elevation and dimensions	e for	1	x =	
IRWS-024-02	Conformance to in-placed materials		1	x =	
Minor					
IRWS-024-03	No cracks, honeycombs, chipping of edges		1	x =	
IRWS-024-04	Compliance to joint mortar mixing proportion		1	x =	
IRWS-024-05	Sufficient collaring and flushing		1	x =	
IRWS-024-06	Compliance to the required thickness, compact materials requirement of gravel bedding	on and	1	x =	
IRWS-024-07	Compliance to the required thickness and compaction of backfill		1	x =	
IRWS-024-08	Conformance to trenching requirements		1	x =	
IRWS-024-09	Free from debris, siltation, etc.		1	x =	
			1	x =	
			1	x =	
				Total Score (a)	Total CAR
Was subcontrac	tor used? If yes, name of company and owner			No. of Indicators (b)	
	and			` '	
Entered by:	D	ate:		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
	Visit Location :			
Date of Visit:	Factor :		<u> </u>	
FACTOR:	"During Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
SUB-ITEM CODE	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
ltem 025 Bould Riprap	er Riprap, Item 026 Gabion-type Riprap, Item 027 Grouted			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects		
IRWS-0201	No through cracks	1	X =	
IRWS-0202	Conformance to specifications (size, type, weight, etc. of boulders)	1	X =	
IRWS-0203	Sufficient grout/mortar	1	X =	
IRWS-0204	Observance to proper placing of stones/boulders	1	x =	
IRWS-0205	Conformance to the approved/required tolerance for slope, alignment and thickness (exceeding allowable tolerance)	1	x =	
IRWS-0206	Compliance to the specified compaction and preparation of bedding (gravel blanket and subgrade)	1	X =	
IRWS-0207	Compliance to design mix of mortar	1	x =	
IRWS-0208	Provision of weep holes	1	x =	
Minor				
IRWS-0201	No cracks	1	X =	
IRWS-0204	Observance to proper placing of stones/boulders	1	X =	
IRWS-0205	Conformance to the approved/required tolerance for slope, alignment and thickness (not exceeding the allowable tolerance)	1	x =	
IRWS-0208	Provision of weep holes	1	x =	
IRWS-0209	Sufficient stone/spall fillers	1	x =	
IRWS-0210	Conformance to the required lapping requirement	1	x =	
IRWS-0211	Conformance to specified curing of structure	1	x =	
		1	x -	
			Total Score (a)	Total CAR
Was subcontract	or used? If yes, name of company and owner and and		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:			IRRIGATION			
	Visit Loca					
Date of Visit:	Factor	or :		<u>-</u>		
FACTOR	: "During Construction" = 0.40; "Upon Completion"	= 0.50				
	INDICATORS					
SUB-ITEM	Note: Spots with a single major defect shall forfeit all points the indicators in the said spot. Further, if the number of con			SCORE	ACTION/	
CODE	less than fifty percent (50%) of the total number of spots, the			Result x factor	MONITOR	
	specific item of work is zero (0).	<b>y</b>		resour x ractor		
Item 028 Grave	el Blanket					
	Conformance to lines, thickness as shown on the	)		х		
IRWS-028-01	drawings		1	=		
IRWS-028-02			1	х		
IKW3-028-02	Conformance of in-placed materials		,	=		
IRWS-028-03	Provision of filter fabric, as required		1	х		
				=		
			1	Х		
				=		
	<u> </u>			Total Score	Total CAR	
				(a)		
Was subcontractor used? If yes, name of company and owner			No. of Indicators	; 		
	and			(b)		
	and					
Entered by:	Da	te:		(a)/(b)=		
•				<b>-</b>	-	

Contract No.:	Project Typ	e:	IRRIGATIO	<u> </u>	
	Visit Location	:			
Date of Visit:	Factor	:		•	
FACTOR:	"During Construction" = 0.40; "Upon Completion" = 0.50				
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the the indicators in the said spot. Further, if the number of complying less than fifty percent (50%) of the total number of spots, the rating specific item of work is zero (0).	spots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 029 Filter	Drain				
Major					
IRWS-029-01	Conformance to lines, grades, thickness as shown on the drawings		I	x =	
IRWS-029-02	Compliance to specified construction methodology		1	x =	
Minor					
IRWS-029-03	Compliance to specified compaction		I	x =	
IRWS-029-04	Provision of weepholes as per plans/specification		1	x =	
IRWS-029-05	Provision of filter and flap gate		I	X =	
			1	x =	
				Total Soore	Total CAR
Was subcontract	tor used? If yes, name of company and owner			Total Score (a)  No. of Indicators (b)	Total CAR
Entered by:	Date:			(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
- OF:	_Visit Location :			
Date of Visit:	Factor :		_	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 030 Plain	Concrete Drain Pipe			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects		
IRWS-030-01	No through cracks	1	X =	
IRWS-030-02	Conformance to the required/approved tolerance for slope, alignment and elevation	1	X =	
Minor				
IRWS-030-01	No cracks	1	x =	
IRWS-030-03	Compliance to joint mortar mixing proportions	I	X =	
IRWS-030-04	Sufficient collaring and flushing	I	x =	
IRWS-030-05	Compliance to the required compaction of backfill and gravel bedding	1	x =	
		1	x =	
			Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:		ect Type :	IRRIGATIO	<u>N</u>	
Date of Visit:	_Visit Locat				
Date of Visit:	Facto	)r :		_	
FACTOR	R: "During Construction" = 0.40; "Upon Completion"	= 0.50			
	INDICATORS				
SUB-ITEM CODE	Note: Spots with a single major defect shall forfeit all points the indicators in the said spot. Further, if the number of comless than fifty percent (50%) of the total number of spots, the specific item of work is zero (0).	nplying spots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 031 Rein	forced Concrete Piles				
Major	* Refer to Section 11.4a of the CPES Guidelines for de	efinition of Ma	jor Defects		
IRWS-031-01	Conformance of in-placed materials to plans and specifications		1	x =	
IRWS-031-02	Conformance to construction methodology (installation, location and type)		1	x =	
IRWS-031-03	Conformance to splicing requirements		1	x =	
IRWS-031-04	Conformance to the required length, width, thickn and/or diameter	iess,	1	x =	
IRWS-031-05	Provision of pile shoe		1	x =	
IRWS-031-06	No cracks, honeycomb		1	x =	
IRWS-031-07	Piles provided with gradation marks (driven or sto	ockpile)	1	x =	
IRWS-031-08	Conformance to proper installation, e.g. conformator required slope, embedment, alignment, plumbs (>20 mm/m), elevation, location (>150mm) & spa	ness	,	X =	
Minor		<u> </u>			
IRWS-031-08	Conformance to proper installation, e.g. conformator required slope, embedment, alignment, plumbre (≤20 mm/m), elevation, location (≤150mm) & spa	ness	,	x =	
IRWS-031-09	Conformance to specified curing on casted RC p		1	X =	
IRWS-031-10	Conformance to casting length		1	X =	
IRWS-031-11	Conformance to required lifting procedures		1	X =	
			1	X =	
	•			Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner			No. of Indicators (b)	5
	anu	<u>—</u>		(a)//b)-	
Entered by:	Dat	te:		(a)/(b)=	

Contract No.:		ect Type :	IRRIGATIO	<u>N</u>	
Date of Visit:	_Visit Loca Fact			_	
FACTOR	: "During Construction" = 0.40; "Upon Completion"	= 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all point the indicators in the said spot. Further, if the number of colless than fifty percent (50%) of the total number of spots, the specific item of work is zero (0).	mplying spots is	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 032 Steel	Sheet Piles				
Major	* Refer to Section 11.4a of the CPES Guidelines for d	efinition of Ma	jor Defects		
IRWS-032-01	Conformance of in-placed materials to plans & s	pecs	1	X =	
IRWS-032-02	Conformance to proper installation, e.g. conform to required slope, embedment, alignment, plumb (>20 mm/m), elevation, location (>150 mm)		1	x =	
IRWS-032-03	Piles provided with gradation marks (driven or st	ockpile)	/	x =	
IRWS-032-04	Conformance to the approved tolerances for dim	nension	/	X =	
IRWS-032-05	No corrosion on steel sheet piles		1	X =	
IRWS-032-06	Compliance to the required number of piles		/	x =	
Minor					
IRWS-032-02	Conformance to proper installation, e.g. conform to required slope, embedment, alignment, plumb (≤20 mm/m), elevation, location (≤150 mm)		1	x =	
IRWS-032-05	No presence of rust on steel sheet piles		1	x =	
IRWS-032-07	Compliance to the required splicing		1	X =	
			1	X =	
	,			Total Score (a)	Total CAR
Was subcontrac	tor used? If yes, name of company and owner and			No. of Indicators (b)	S 
Entered by:	Da	ite:		(a)/(b)=	

Date of Visit:  FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50  SUB-ITEM CODE   INDICATORS   Note: Spocts with a single major defect shall forfeit all points for the rest of the Indicators in the said spot. Further, if the number of complying spots is specific ident of work is zero (0).  Item 033 Steel Gates and Lifting Mechanism (steel gates, stoplog, lifting mechanism, embedded parts)   Installed equipment conformed accurately machined	Contract No.:	Project Type	e :	IRRIGATIO	<u>N</u>	
FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50  INDICATORS  SUB-ITEM CODE  SUB-ITEM CODE  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said space. Further, if the number of complying spots is less than fifty percent (50%) of the textal number of spots, the rating for that specific item of work is zero (0).  Item 033 Steel Cates and Lifting Mechanism (steel gates, stoplog, lifting mechanism, embedded parts)  Major  IRWS-033-01  Mounting and bearing surfaces accurately machined  IRWS-033-02  Installed equipment conformed accurately to the designed dimensions, free from defects in workmanship and materials according to the specified type and model  Gates and lifting mechanism assembly installed in accordance to plans and specifications  Minor  IRWS-033-04  Conformance to specified jointing/welding methods  J			:			
SUB-ITEM CODE   Note: Spots with a single major delete shall fortie all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (10%).	Date of Visit:	Factor	:			
SUB-ITEM CODE    Note: Spots with a single major defect shall forteit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (60%) of the total number of spots, the rating for that less than fifty percent (60%) of the total number of spots, the rating for that less than fifty percent (60%) of the total number of spots, the rating for that less than fifty percent (60%) of the total number of spots, the rating for that less than fifty percent (60%) of the total number of spots, the rating for that less than fifty percent (60%) of the total number of spots, the rating for that less than fifty percent (60%) of the total number of spots, the rating for that less than fifty percent (60%) of the total number of spots, the rating for that less than fifty percent (60%) of the number of spots, the rating for that less than fifty percent (60%) of the number of spots, the rating for that less than fifty percent (60%) of the number of spots, the rating for shall percent (60%) of the number of spots, the rating for shall percent (60%) of the number of spots and spots of the number of spots, the rating for submerged steel, steel exposed to atmosphere and embedded steel    RWS-033-06	FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50				
Ifting mechanism, embedded parts)		Note: Spots with a single major defect shall forfeit all points for the the indicators in the said spot. Further, if the number of complying s, less than fifty percent (50%) of the total number of spots, the rating t	pots is	RESULTS		
Major	Item 033 Steel	Gates and Lifting Mechanism (steel gates, stoplog,				
IRWS-033-01 Mounting and bearing surfaces accurately machined  Installed equipment conformed accurately to the designed dimensions, free from defects in workmanship and materials according to the specified type and model  IRWS-033-03 Gates and lifting mechanism assembly installed in accordance to plans and specifications  Minor  IRWS-033-04 Conformance to specified jointing/welding methods  IRWS-033-05 Drain holes provided on all locations where entrapment of water can occur  IRWS-033-06 Seel, steel exposed to atmosphere and embedded steel  IRWS-033-07 Non-occurrence of leakage  IRWS-033-08 Operation and maintenance manual provided  IRWS-033-09 Surfaces clean and smooth, welded joints properly grinded  Total Score Total CAR  (a)  Was subcontractor used? If yes, name of company and owner and		ism, embedded parts)				
IRWS-033-01   Mounting and bearing surfaces accurately to the designed dimensions, free from defects in workmanship and materials according to the specified type and model	Major					
IRWS-033-02 dimensions, free from defects in workmanship and materials according to the specified type and model  IRWS-033-03 dates and lifting mechanism assembly installed in accordance to plans and specifications  IRWS-033-04 Conformance to specified jointing/welding methods  IRWS-033-05 Drain holes provided on all locations where entrapment of water can occur  IRWS-033-06 Steel, steel exposed to atmosphere and embedded steel  IRWS-033-07 Non-occurrence of leakage  IRWS-033-08 Operation and maintenance manual provided  IRWS-033-09 Surfaces clean and smooth, welded joints properly grinded  IRWS-033-09 Total CAR  Was subcontractor used? If yes, name of company and owner and embedded steel  IRWS-033-09 And IRW	IRWS-033-01	Mounting and bearing surfaces accurately machined		1	X =	
IRWS-033-03   accordance to plans and specifications     =	IRWS-033-02	dimensions, free from defects in workmanship and	ed	1	x =	
Minor   IRWS-033-04   Conformance to specified jointing/welding methods   / =	IRWS-033-03	· ·		1	x =	
IRWS-033-05 Drain holes provided on all locations where entrapment of water can occur  IRWS-033-06 Conformance to the specified painting for submerged steel, steel exposed to atmosphere and embedded steel  IRWS-033-07 Non-occurrence of leakage  IRWS-033-08 Operation and maintenance manual provided  IRWS-033-09 Surfaces clean and smooth, welded joints properly grinded  IRWS-033-09 Total Score (a)  Total Score (a)  Was subcontractor used? If yes, name of company and owner (b)  and  (a)/(b)=	Minor					
IRWS-033-06	IRWS-033-04	Conformance to specified jointing/welding methods		1		
IRWS-033-07 Non-occurrence of leakage  IRWS-033-07 Non-occurrence of leakage  IRWS-033-08 Operation and maintenance manual provided  IRWS-033-09 Surfaces clean and smooth, welded joints properly grinded  IRWS-033-09 Inded	IRWS-033-05	l · · · · · · · · · · · · · · · · · · ·		1		
IRWS-033-08 Operation and maintenance manual provided  IRWS-033-09 Surfaces clean and smooth, welded joints properly grinded  IRWS-033-09 Total Score (a)  Was subcontractor used? If yes, name of company and owner and and smooth welded joints properly and subcontractor used? If yes, name of company and owner (b)  [RWS-033-08 Operation and maintenance manual provided	IRWS-033-06	1	l	1		
IRWS-033-08   Operation and maintenance manual provided	IRWS-033-07	Non-occurrence of leakage		1		
Was subcontractor used? If yes, name of company and owner  and  Total Score (a)  No. of Indicators (b)  (a)/(b)=	IRWS-033-08	Operation and maintenance manual provided		1	x =	
Was subcontractor used? If yes, name of company and owner  and  Total Score (a)  No. of Indicators (b)  (a)/(b)=	IRWS-033-09			1	x =	
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)/(b)=				1	x =	
Was subcontractor used? If yes, name of company and owner  No. of Indicators (b)  (a)/(b)=						
and (b)		•				Total CAR
Entered by: Date: (a)/(b)=	Was subcontrac					   
	Entered by:	Date:			(a)/(b)=	

Contract No.: Project Ty		RRIGATION		
	_Visit Location :			
Date of Visit:	Factor :		•	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 034 Steel	Pipe Manhole, Blow-off Valve and Manhole Cover			
Major				
IRWS-034-01	Installation drawings, operating and maintenance instructions, illustrations and repair procedures submitted	1	x =	
IRWS-034-02	Pipe fittings, manholes and cover, valve and accessories installed as shown on the drawings	1	x =	
Minor				
IRWS-034-03	Anchor bolts set accurately to the grade and alignment as shown on the drawings	1	x =	
IRWS-034-04	Extraneous foreign matter removed from the pipes	1	x =	
IRWS-034-05	Conformance to the specified kind and method of painting	1	x =	
		1	x =	
		1	X =	
			Total Score (a)	Total CAR
Was subcontrac	tor used? If yes, name of company and owner		No. of Indicators (b)	
	and		` ,	
Entered by:	Date:		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
,	_Visit Location :			
Date of Visit:	Factor :		_	
EACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
TACTOR			Т	T
	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest	of		
SUB-ITEM	the indicators in the said spot. Further, if the number of complying spots		SCORE	ACTION/
CODE	less than fifty percent (50%) of the total number of spots, the rating for ti		Result x factor	MONITOR
	specific item of work is zero (0).			
Item 035 Misc	ellaneous Metal Works and Materials			
Major				
IRWS-035-01	Provision of block outs for installation of metal works	,	Х	
		_	=	
IRWS-035-02	Metal works and materials installed in accordance to	1	Х	
	the details shown in the drawings (alignment, position)		=	
Minor				
IRWS-035-03	Block outs were grouted after installation of metal works	1	X	
	+		=	
		/	X	
			X	
		/	=	•
	1	1	Total Score	Total CAR
			(a)	
Was subcontrac	ctor used? If yes, name of company and owner		No. of Indicators	 S
			(b)	
	and			
Entered by:	Data		(a)/(b)=	
Lintered by.	Date:			<u> </u>

Contract No.:	Project		IRRIGATIO	<u>N</u>	
	_Visit Locatio	n :			
Date of Visit:	Factor	:		_	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0	0.50			
	INDICATORS				
SUB-ITEM	Note: Spots with a single major defect shall forfeit all points for				ACTION/
CODE	the indicators in the said spot. Further, if the number of comply			SCORE	MONITOR
	less than fifty percent (50%) of the total number of spots, the respectific item of work is zero (0).	ating for that		Result x factor	
Item 036 Paint					
				х	
IRWS-036-01	Surface prepared according to specifications		/	=	
IDIA/O 000 00	B			х	
IRWS-036-02	Required neutralizers, etc. applied		/	=	1
				х	
IRWS-036-03	Applied paint appropriate to the surface		/	=	
1514/0 000 04	0 10 1 1 1 1			х	
IRWS-036-04	Specified number of coats applied		/	=	1
				х	
IRWS-036-05	Surfaces evenly painted, proper opacity		/	=	
			_	х	
IRWS-036-06	No discoloration and peeling off of paint		/	=	1
				х	
IRWS-036-07	Paints conform to specification/requirements		/	=	
IDIA/O 000 00	Surface are properly applied with putty/patching			х	
IRWS-036-08	compound		/	=	1
				х	
			/	=	
				х	
			/	=	
				Total Score	Total CAR
				(a)	
Mag out	tor used 2 If use name of some and a summary			No. of Indicators	
vvas subcontrac	tor used? If yes, name of company and owner				) 
	and			(b)	
	anu	•			
Entered by:	Date:			(a)/(b)=	
o.oa by.	Date.			l	

Contract No.:		IRRIGATIO	<u>N</u>	
Date of Visit:	Visit Location : Factor :			
2010 01 110111			•	
FACTOR:	"During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 037 Aspha	alt Concrete Surfacing - Plant Mix			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects		
IRWS-037-01	Conformance of in-placed materials to plans & specs	1	x =	
IRWS-037-02	Monitoring/checking of temperature mix prior to placing/spreading/compaction	1	X =	
IRWS-037-03	Conformance to the temperature requirement	1	x =	
IRWS-037-04	No alligator and longitudinal cracks	1	x =	
IRWS-037-05	Conformance to the approved/specified tolerance for thickness, width, length, slope and cross section (>10% deficient)	1	x =	
IRWS-037-06	No bleeding on asphalt pavement (> 1 sq.m.)	1	x =	
IRWS-037-07	No upheaval (severe and needs R/R)	1	X =	
IRWS-037-08	No ravelling (severe and needs R/R)	I	X =	
Minor				
IRWS-037-04	No temperature cracks	1	X =	
IRWS-037-05	Conformance to the approved/specified tolerance for thickness, width, length, slope and cross section (≤10% deficient)	1	x =	
IRWS-037-06	No bleeding on asphalt pavement (≤ 1 sq.m.)	1	x =	
IRWS-037-07	No upheaval	1	X =	
IRWS-037-08	No ravelling	1	x =	
IRWS-037-09	Conformance to the required density	1	x =	
		1	Х	
			Total Score (a)	Total CAR
Was subcontract	or used? If yes, name of company and owner and		No. of Indicators (b)	
Entored by:	Date:		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
	_Visit Location :			
Date of Visit:	Factor :		-	
FACTOR:	"During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 038 Press	ure Relief Valve			
Major				
IRWS-038-01	Installation of valves including accessories true to lines, grades and places as indicated on the drawings	1	x =	
Minor				
IRWS-038-02	Ball mechanism inserted into a designed size of pipe and installed at intervals as shown on the drawings	1	X =	
IRWS-038-03	Special locking device provided	1	x =	
		1	X =	
		1	X =	
			Total Score (a)	Total CAR
Was subcontract	tor used? If yes, name of company and owner and		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:	Project Type :	IRRIGATIO	<u>N</u>	
	_Visit Location :			
Date of Visit:	Factor :		-	
FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS		T	
SUB-ITEM CODE	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 039 Bio-E	ngineering for Erosion Control and Slope Stabilization			
IRWS-039-01	Conformance to the required slope, line and grade as per plans and specifications	1	X =	
IRWS-039-02	Conformance to proper methodology for surface preparation	1	X =	
IRWS-039-03	Plant, shrub, grass and tree species used to reinforce soil and stabilize slopes conforms to the approved variety/kind as per approved specifications	1	x =	
IRWS-039-04	Method of propagation/planting of plant, shurb, grass and tree species conforms to specifications	1	x =	
IRWS-039-05	Inert materials (biotextiles, biomats) used as temporary solutions for superficial lining and erosion protection during vegetation growth conforms to specifications	1	x =	
IRWS-039-06	Inert materials (geomats(with fibers, continous fibers, grids), geocells, gabions, reno mattresses, hexagonal IRWSe mesh) used for erosion protection caused by impact of raindrops and rills or the flood action of rivers and channels conforms to specifications	1	x =	
IRWS-039-07	Inert materials (gabions, geogrids (extruded, woven, bonded), hexagonal IRWSe mesh, geotextiles (woven, nonwoven)) used for soil reinforcement/soil retaining conforms to specifications	1	x =	
IRWS-039-08	Inert materials {gabions, geomats (continous fibers, grids), geotextiles (woven, nonwoven)} used for drainage conforms to specifications	1	x =	
IRWS-039-09	Inert materials (double twist IRWSemesh) used for rockfall protection conforms to specifications	1	X =	
		1	X =	
_		1	x	
	]		Total Score (a)	Total CAR
Was subcontrac	tor used? If yes, name of company and owner		No. of Indicators (b)	
	and			
Entered by:	Date:		(a)/(b)=	

# ANNEX 2-E

# **CHECKLIST FOR FLOOD CONTROL**

Item 1700	Clearing and Grubbing	2E-1
Item 1701	Channel Excavation	2E-1
Item 1702	Structure Excavation	2E-1
Item 1703	Dredging	2E-2
Item 1704	Embankment	2E-2
Item 1707	Aggregate Sub-base Course	2E-3
Item 1708	Aggregate Base Course	2E-3
Item 1709	Crushed Aggregate Base Course	2E-3
Item 1710	Riprap/Grouted Riprap	2E-4
Item 1711	Stone Masonry	2E-4
Item 1713	Rubble Concrete/Sand or Stone Masonry	2E-4
Item 1712	Concrete Slope Protection	2E-5
Item 1714	Gabions and Mattresses	2E-6
Item 1715	Filter Fabric	2E-6
Item 1716	Piling Works (Timber)	2E-7
Item 1716	Piling Works (Steel	2E-8
Item 1716	Piling Works (Concrete)	2E-9
Item 1717	Sheet Piles (Concrete)	2E-10
Item 1717	Sheet Piles (Steel)	2E-11
Item 1717	Sheet Piles (Timber)	2E-12
Item 1718	Pipe Culvert and Storm Drain	2E-13
Item 1720	Manholes, Inlets, Catch Basins	2E-14
Item 1723	Formworks	2E-15
Item 1724	Reinforcing Steel Bars	2E-15
Item 1725	Concrete Works	2E-16
Item 1726	Electrical Works	2E-17
Item 1727	Generator Set	2E-18
Item 1728	Sodding	2E-19
Item 1729	Rio-Engineering for Frosion Control & Stabilization	2F-20

PROJECT ID/N	IO.: PROJECT TYPE: Flood Control	ITEM: E	arthworks	
VISIT	LOCATION:	DATE C	F VISIT: / /	1
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
ractor. During	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action Monitor
Item 1700 Clearin	ng and Grubbing			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	Defects		
FCWS-1700-01	Proper removal of undisputed stumps roots and non-perishable solid	/	x	
Minor	objects/structures, vegetation, debris, tree and other obstructions		=	
WITTO				
FCWS-1700-01	Proper removal of undisputed stumps roots and non-perishable solid objects/structures, vegetation, debris, tree and other obstructions	/	x	
FCWS-1700-02	Conformance to proper disposal	/	X	
		/	=x	
		/	X	
		/	X	
Item 1701 Chann	el Excavation, 1702 Structure Excavation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	ts		
FCWS-17001	Conformance wth approved/specified tolerance for lines, grades, cross-section, elevation and dimension (if no longer correctible)	/	=X	
		/	=x	
Minor				
FCWS-17001	Conformance with approved/specified tolerance for lines, grades, cross-section, elevation and dimension (correctible)	/	=x	
FCWS-17002	Adherence to proper construction methodology	/	=X	
FCWS-17003	Conformance to proper disposal	/	=X	
		/	X	
		/	=X	
		/	= X	
		/	=X	
		/	=x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
				•

PROJECT ID/NVISIT	O.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Earthworks DATE OF VISIT: / /		1
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1703 Dredgii	ng			
FOWO 4700 04	Unsuitable soil layers removed from river beds, bottom of creeks, and other	,	X	
FCWS-1703-01	bodies of water	/	=	
FCWS-1703-02	Removed unsuitable soil layers properly disposed	/	=X	
FCWS-1703-03	Adherence to proper dredging methodology	/	X	
FCWS-1703-04	Conformance with specified silt screens or isolation materials for prevention against the diffusing of contaminated toxic materials during dredging.	/	X	
FCWS-1703-05	Conformance with approved/specified lines, grades/depth, volume and containment/sealing of disposed dredged materials	/	=X	
		/	=x	
Item 1704 Emban	kment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	ts		
FCWS-1704-01	Adherence to proper construction methodology (if no longer correctible)	/	x	
FCWS-1704-02	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (if no longer correctible, e.g., with in-placed structure)	/	X	
FCWS-1704-03	Adherence to compaction procedure and required equipment (if no longer correctible)	/	x	
Minor	,			
FCWS-1704-01	Adherence to proper construction methodology	/	x	
FCWS-1704-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions (correctible)	/	X	
FCWS-1704-03	Adherence to compaction procedure and required equipment (correctible)	/	=X	
		/	X	
		/	X	
		/	x	
		/	x	
		/	x	
		/	X	
		/	X	
		/	x	
		/	x	
		/	x	
Was subsenting the	Luned 2 If you name of company and company		Total Score (a)	CAR Total
	used? If yes, name of company and owner: &		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	i.
			=	l

PROJECT ID/N VISIT	IO.: PROJECT TYPE: Flood Control LOCATION:		arthworks OF VISIT: / /	1
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action Monitor
Item 1707 Aggrega Aggregate Base Co	te Sub-base Course, 1708 Aggregate Base Course, 1709 Crushed			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	ts		
FCWS 17001	Conformance of in-placed materials to plans and specifications	/	X	
FCWS 17002	Conformance with approved/specified tolerances on lines, grades, cross- section, thickness, elevation, dimensions and plans (if no longer correctible, e.g., not extended to shoulder and other succeeding items are already in- placed)	/	X	
		/	x	
Minor				
FCWS 17001	Conformance of in-placed materials to plans and specifications	/	X	
FCWS 17002	Conformance w/ approved/specified tolerances on lines, grades, cross- section, thickness, elevation, dimensions & plans (correctible)	/	X	
FCWS 17003	Conformance to required layering	/	X	
FCWS 17004	Conformance to the required compaction	/	X	
FCWS 17005	Sub-base/Base extended to shoulders	/	X	
FCWS 17006	Non-occurrence of sub-base/base settlement/upheaval	/	X	
FCWS 17007	Provision of required stakes	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=x	
		/	=X	
		1	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N VISIT	IO.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Bank & Slope Protection DATE OF VISIT: / /		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1710 Riprap/G Masonry	routed Riprap, 1711 Stone Masonry, 1713 Rubble Concrete/Sand			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	ts		
FCWS-17101	No through cracks	/	X	
FCWS-17102	Conformance to specifications (size, type, weight, etc. of boulders)	/	X	
FCWS-17103	Conformance to the approved/required tolerances for slope and thickness	/	X	
FCWS-17104	Observance to proper placing of stones/boulders	/	=x	
FCWS-17105	Sufficient grout/mortar	/	X	
		/	x	
Minor				
FCWS-17101	No cracks	/	=X	
FCWS-17106	Adequate and proper spacing of weepholes	/	=x	
FCWS-17107	Conformance with the approved tolerances for lines, grades, cross-sections, and elevations	/	=x	
FCWS-17108	Compliance to design mix of mortar	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate =	l I

PROJECT ID/N	O.: PROJECT TYPE: Flood Control LOCATION:		ank & Slope Pi F VISIT: //	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1712 Concrete	Slope Protection			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	ts .		
FCWS-1712-01	No honeycomb (exposed rebars/aggregates)	/	=x	
FCWS-1712-02	No through cracks	/	=x	
		/	X	
Minor				
FCWS-1712-01	No honeycomb	/	=x	
FCWS-1712-02	No cracks	/	=X	
FCWS-1712-03	Conformance to the required curing	/	=x	
FCWS-1712-04	Proper vibration	/	=x	
FCWS-1712-05	Proper finishes/plastering	/	=x	
FCWS-1712-06	No corrosion on steel bars	/	=x	
FCWS-1712-07	Forms applied with specified form oil	/	=x	
FCWS-1712-08	Conformance to the required splicing and installation of rebars	/	=x	
FCWS-1712-09	Adequate and proper spacing of weepholes	/	=x	
		/	=x	
		/	=x	
		/	x	
		/	x	
		/	x	
		/	=x	
		/	=x	
		/	x	
		/	x	
		/	=x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/N VISIT	O.: PROJECT TYPE: Flood Control LOCATION:		sank & Slope Pi DF VISIT: / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1714 Gabion	s and Mattresses			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	ts		
FCWS-1714-01	Conformance to the required/approved tolerance for lines, grades, dimensions and arrangements as shown on the plans and designated location (>10%)	/	X	
FCWS-1714-02	Conformance to specifications (size, type, weight, etc. of boulders)	/	X	
Minor				
FCWS-1714-01	Conformance to the required/approved tolerance for lines, grades, dimensions and arrangements as shown on the plans and designated location (≤10%)	/	X	
FCWS-1714-03	Conformance to the required wire mesh cage fabrication requirement	/	=x	
FCWS-1714-04	No misalignment, bulging	/	X	
FCWS-1714-05	Conformance to the required lapping requirement	/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	=X	
		/	=X	
Item 1715 Filter F	abric		=	
	Conformance to the elevation and extent of application as shown on		V	
FCWS-1715-01	the plan  Conformance to the required installation procedure, e.g. lapping	/	=X	
FCWS-1715-02	requirements, etc.	/	=X	
		/	x	
Was subcontractor	rused? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	ı

PROJECT ID/NVISIT	O.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Bank & Slope Protection DATE OF VISIT: / /		
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1716 Piling 1716-1 Timber Pil	22			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	ts		
FCWS-1716-1-01	Conformance of in-placed materials to plans and specifications	/	x	
FCWS-1716-1-02	Conformance to construction methodology (installation, location and type)	/	= X	
FCWS-1716-1-03		/	x	
FCWS-1716-1-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
FCWS-1716-1-05	Piles provided with gradation marks (driven)	/	x	
Minor			-	
FCWS-1716-1-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	X	
FCWS-1716-1-05	Piles provided with gradation marks (stockpile)	/	x	
FCWS-1716-1-06	Conformance to approved/specified tolerances for length, width, thickness and/or diameter	/	X	
FCWS-1716-1-07	No loose knots, decay, splits, worm holes, and warps	/	X	
FCWS-1716-1-08	Non-splintering/brooming of timber pile end beyond specified allowance	/	X	
FCWS-1716-1-09	No cracks	/	X	
FCWS-1716-1-10	Provision of pile cap	/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
		1	=X	ī
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NVISIT	O.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Bank & Slope Protection DATE OF VISIT: //		
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1716-2 Steel	Piles			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	ts		
FCWS-1716-2-01	Conformance of in-placed materials to plans and specifications	/	x	
FCWS-1716-2-02	Conformance to construction methodology (installation, location and type)	/	X	
FCWS-1716-2-03	Conformance to splicing requirements	/	X	
FCWS-1716-2-04	Conformance to the required length, width, thickness, and/or diameter	/	X	
FCWS-1716-2-05	Piles provided with gradation marks (driven)	/	X	
FCWS-1716-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
Minor	, , , , , , , , , , , , , , , , , , , ,			
FCWS-1716-2-05	Piles provided with gradation marks (stockpile)	/	=X	
FCWS-1716-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	x	
FCWS-1716-2-07	No corrosions on steel piles	/	X	
FCWS-1716-2-08	No deformation on steel piles	/	X	
		/	X	
		/	x	
		/	X	
		/	x	
		/	x	
		/	x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

	CPES CHECKLIST FOR WORKMANS	SHIP		
PROJECT ID/N VISIT	O.: PROJECT TYPE: Flood Control LOCATION:		ank & Slope Pi PF VISIT: //	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	rete Piles (see Common Items of Work for checklist oncrete works & RSB)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	ts		
FCWS-1716-3-01		/	X	
FCWS-1716-3-02	Conformance to construction methodology (installation, location and type)	/	X	
FCWS-1716-3-03	Conformance to splicing requirements	/	X	
FCWS-1716-3-04	Conformance to the required length, width, thickness, and/or diameter	/	X	
FCWS-1716-3-05	Provision of pile shoe	/	X	
FCWS-1716-3-06	No through cracks	/	X	
FCWS-1716-3-07	No honeycomb (exposed rebars/aggregates)			
FCWS-1716-3-08	Piles provided with gradation marks (driven)	/	X	
FCWS-1716-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	=x	
Minor				
FCWS-1716-3-06	No cracks	/	=X	
FCWS-1716-3-07	No honeycomb	/	=X	
FCWS-1716308	Piles provided with gradation marks (stockpile)	/	=X	
FCWS-1716-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm), spacing & champering	/	X	
FCWS-1716-3-10	Conformance to specified curing on casted RC piles	/	=x	
FCWS-1716-3-11	Conformance to casting length	/	x	
FCWS-1716-3-12	Conformance to required lifting procedure	/	=x	
		/	=x	
		/	=x	
		/	X	
		/	x	
	1			

FCWS-1716-3-05	Provision of pile shoe	/	=x	
FCWS-1716-3-06	No through cracks	/	=x	
FCWS-1716-3-07	No honeycomb (exposed rebars/aggregates)			
FCWS-1716-3-08	Piles provided with gradation marks (driven)	/	X	
FCWS-1716-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	x	
Minor				
FCWS-1716-3-06	No cracks	/	X	
FCWS-1716-3-07	No honeycomb	/	=x	
FCWS-1716308	Piles provided with gradation marks (stockpile)	/	=x	
FCWS-1716-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm), spacing & champering	/	X	
FCWS-1716-3-10	Conformance to specified curing on casted RC piles	/	=x	
FCWS-1716-3-11	Conformance to casting length	/	=x	
FCWS-1716-3-12	Conformance to required lifting procedure	/	=x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	1
				•

PROJECT ID/N VISIT	O.: PROJECT TYPE: Flood Control LOCATION:		ank & Slope Pi F VISIT: //	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1717 Sheet F 1717-1 Concrete S				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	ts		
FCWS-1717-1-01	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	=x	
FCWS-1717-1-02	Piles provided with gradation marks (driven)	/	=X	
FCWS-1717-1-03	Conformance to the required quality of concrete mix	/	=X	
FCWS-1717-1-04	No cracks	/	=x	
FCWS-1717-1-05	Conformance to the approved/required tolerances for length, width, thickness, and/or diameter	/	=X	
Minor				
FCWS-1717-1-01	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	X	
FCWS-1717-1-02	Piles provided with gradation marks (stockpile)	/	=x	
FCWS-1717-1-06	Conformance to the required casting length	/	=x	
FCWS-1717-1-07	Provision of pile shoe	/	=x	
FCWS-1717-1-08	Compliance to required curing of casted sheet piles	/	x	
FCWS-1717-1-09	Compliance to required splicing	/	x	
FCWS-1717-1-10	No honeycomb, stone pockets and bulging	/	X	
FCWS-1717-1-11	Conformance to the required centerline and cut-off elevation	/	x	
FCWS-1717-1-12	Attainment of required number of piles	/	x	
		/	x	
		/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	ļ

PROJECT ID/N VISIT	O.: PROJECT TYPE: Flood Control LOCATION:		ank & Slope Pi DF VISIT: //	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1717-2 Steel	Sheet Pile			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	ts		
FCWS-1717-2-01	Conformance of in-placed materials to plans & specifications	/	X	
FCWS-1717-2-02	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	= X	
FCWS-1717-2-03	Piles provided with gradation marks (driven)			
FCWS-1717-2-04	Conformance to the approved/required tolerances for length, width, thickness, and/or diameter	/	x	
Minor				
FCWS-1717-2-02	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	x	
FCWS-1717-2-03	Piles provided with gradation marks (stockpile)	/	X	
FCWS-1717-2-05	Compliance to the required splicing	/	x	
FCWS-1717-2-06	No corrosion on steel sheet piles	/	x	
FCWS-1717-2-07	Non-use of deformed steel bars	/	x	
FCWS-1717-2-08	Attainment of required number of piles	/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/N VISIT	O.: PROJECT TYPE: Flood Control LOCATION:		Bank & Slope P DF VISIT: / /	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1717-3 Timbe	er Sheet Pile			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	ts		
FCWS-1717-3-01	Conformance of in-placed materials to plans and specifications	/	X	
FCWS-1717-3-02	Conformance to construction methodology (installation, location and type)	/	X	
FCWS-1717-3-03	Conformance to splicing requirements	/	X	
FCWS-1717-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	x	
FCWS-1717-3-05	Piles provided with gradation marks (driven)	/	X	
FCWS-1717-3-06	Conformance to approved/specified tolerances for length, width, thickness and/or diameter	/	X	
Minor				
FCWS-1717-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing	/	x	
FCWS-1717-3-05	Piles provided with gradation marks (stockpile)	/	X	
FCWS-1717-3-07	No worm holes, decays, warps, ring, segregation, splits, and loose knots	/	X	
FCWS-1717-3-08	Non-splintering/brooming of timber pile end beyond specified allowance	/	X	
FCWS-1717-3-09	No cracks	/	X	
FCWS-1717-3-10	Provision of pile cap	/	x	
FCWS-1717-3-11	Attainment of required number of piles	/	x	
		/	X	
		/	x	
		/	X	
		/	X	
		/	X	
		/	x	
		/	X	
		/	=X	
		/	= X	
		/	= X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	

Rate

PROJECT ID/N VISIT	O.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Drainage Works DATE OF VISIT: //		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1718 Pipe C	ulvert and Storm Drain			
Major				
FCWS-1718-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions	/	=X	
Minor				
FCWS-1718-02	No cracks, honeycomb, chipping of edges	/	=X	
FCWS-1718-03	Compliance to joint mortar mixing proportions	/	X	
FCWS-1718-04	Sufficient collaring and flushing	/	X	
FCWS-1718-05	Compliance to the required thickness, compaction & materials requirement of gravel bedding	/	=x	
FCWS-1718-06	Compliance to the required thickness and compaction of backfill	/	=x	
FCWS-1718-07	Conformance to trenching requirements	/	=x	
FCWS-1718-08	Free from debris, siltation, etc.	/	=x	
		/	X	
		/	X	
		/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	X	
		/	X	
		/	=X	
		/	= x	
			= Total Score (a)	CAR Total
	r used? If yes, name of company and owner: &		= No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b)	
-			=	ı
			Rate	

PROJECT ID/N	IO.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Drainage Works DATE OF VISIT: / /		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1720 Manho	les, Inlets and Catch Basins			
Major				
FCWS-1720-01	Conformance to connection requirements between pipes and inlet wall	/	X	
FCWS-1720-02	Conformance to approved/specified tolerance for dimensions and elevations	/	X =	
Minor				
FCWS-1720-03	No damage on manhole, inlets and catch basins	/	X =	
FCWS-1720-04	No cracks	/	X	
FCWS-1720-05	No honeycomb	/	X	
FCWS-1720-06	Free from debris, siltation, etc.	/	X	
FCWS-1720-07	Covers and gratings are well fitted and can easily be opened during maintenance work	/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	X	
		/	x	
		/	= X	
W	10 1/2		= Total Score (a)	CAR Total
	r used? If yes, name of company and owner: &		= No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b)	
-			= Rate	n.
			=	

PROJECT ID/N	NO.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Common Items of Work DATE OF VISIT: / /		
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action Monitor
Item 1723 Formy	vorks			
FCWS-1723-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X	
FCWS-1723-02	Forms coated with mould oil as required	/	X	
FCWS-1723-03	Sufficient bracing/support provided	/	X	
FCWS-1723-04	No loose knots, splits, cracks, etc.	/	X	
FCWS-1723-05	Provision of required concrete or steel spacers	/	X	
FCWS-1723-06	Conformance to dimensions, location, plumbness and alignment	/	X	
		/	X	
		/	X	
		/	=x	
		/	=x	
		/	X	
Item 1724 Reinfo	rcing Steel Bars (including tendons for Pre/Post-Stressed			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	ts		
FCWS-1724-01	Conformance of in-placed materials to plans & specifications	/	X	
FCWS-1724-02	Non-appearance of corrosion on steel reinforcement	/	X	
Minor				
FCWS-1724-02	Non-appearance of rust on steel reinforcement	/	=X	
FCWS-1724-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	=X	
FCWS-1724-04	No sign of oil, paint and other deleterious materials on reinforcements	/	=x	
FCWS-1724-05	Conformance to jointing requirements, i.e. splicing, welding, etc.	/	X	
FCWS-1724-06	Conformance to the required installation of ducktube (e.g. spacing, location and distance)	/	=x	
FCWS-1724-07	Conformance to the required steel plate and lock	/	=x	
FCWS-1724-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	=x	
		/	=x	
		/	X	
		/	X	
Was subcontracto	or used? If yes, name of company and owner:	-	Total Score (a) =	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	
			L	L

PROJECT ID/N	NO.: PROJECT TYPE: Flood Control LOCATION:	_	Common Items OF VISIT: /	
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1725 Concre	ete Works			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	ts		
FCWS-1725-01	No through of cracks	/	X	
FCWS-1725-02	No honeycomb or spalling (no exposed rebars/aggregates)	/	X	
FCWS-1725-03	No sagging or bulging	/	X	
FCWS-1725-04	Conformance to the required quality of concrete mix	/	X	
Minor				
FCWS-1725-01	No cracks	/	X	
FCWS-1725-02	No honeycomb or spalling	/	x	
FCWS-1725-03	No sagging or bulging	/	X	
FCWS-1725-05	No chipping off of concrete cover	/	X	
FCWS-1725-06	Proper and adequate vibration	/	X	
FCWS-1725-07	Conformance to finishing/plastering requirement	/	X	
FCWS-1725-08	Conformance to the required concrete cover for rebars	/	X	
FCWS-1725-09	Conformance to the batching, mixing, transporting and discharge time requirements	/	x	
FCWS-1725-10	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	x	
FCWS-1725-11	Conformance to the jointing requirement	/	=x	
FCWS-1725-12	Proper curing	/	=x	
FCWS-1725-13	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	x	
FCWS-1725-14	No water ponding on bearing plates	/	X	
FCWS-1725-15	Conformance to elevation of expansion joints	/	x	
		/	=x	
		/	X	
Was subcontracto	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	
				l .

PROJECT ID/N VISIT	O.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Miscellaneous Works DATE OF VISIT: / /		Vorks
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 1726 Electri	cal Works			
FCWS-1726-01	Pipes installed according to plans and laid out according to approved construction drawings	/	x	
FCWS-1726-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	X	
FCWS-1726-03	Pipes properly bended	/	X	
FCWS-1726-04	Allowable number of wires in a pipe properly observed	/	x	
FCWS-1726-05	Splicing and connection provided with adequate rubber and pvc tapes	/	X	
FCWS-1726-06	Adequate length of wire provided for termination and splicing	/	X	
FCWS-1726-07	Wire color coding complied and observed	/	X	
FCWS-1726-08	Wire insulation not damaged during pulling	/	X	
FCWS-1726-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	x	
FCWS-1726-10	Boxes and enclosures provided according to intended purpose	/	X	
FCWS-1726-11	Fittings and accessories provided and properly installed	/	X	
FCWS-1726-12	Block-outs and sleeves provided and properly secured	/	X	
FCWS-1726-13	Cable ties provided	/	X	
FCWS-1726-14	Blank covers provided for outlets and switches that are not utilized	/	x	
FCWS-1726-15	Use of tools and equipment properly observed	/	x	
FCWS-1726-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	X	
FCWS-1726-17	Meager, clamp, phase sequence tests and load test conducted	/	X	
FCWS-1726-18	Shop drawings, as-built plan maintained	/	X	
		/	X	
		/	x	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	

PROJECT ID/N VISIT	O.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Miscellaneous Works DATE OF VISIT: / /		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1727 Genera	tor Set			
FCWS-1727-01	Installation of auxilliary, piping and control panel according to plans and specifications	/	X	
FCWS-1727-02	Installed materials free from any form of damages	/	X	
FCWS-1727-03	Pipes are sufficiently braced	/	X	
FCWS-1727-04	Passed the required test	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
			=	

PROJECT ID/N	O.: PROJECT TYPE: Flood Control LOCATION:	ITEM: Miscellaneous Works DATE OF VISIT: / /		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1728 Soddin	g			
FCWS-1728-01	Conformance to appropriate type, thickness and density of soil	/	X	
FCWS-1728-02	Conformance to approved slope	/	X	
FCWS-1728-03	Conformance to the required type of grass/planting materials	/	X	
FCWS-1728-04	Healthy, dense, well rooted	/	x	
FCWS-1728-05	Free from weeds or undesirable grasses	/	x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=x	
		/	X	
		/	X	
		/	=x	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate =	i

	CPES CHECKLIST FOR WORKMANS	SHIP		
PROJECT ID/N VISIT	LOCATION:		Bio-Engineering DF VISIT: / /	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1729 Bio-En	gineering for Erosion Control and Slope Stabilization			
FCWS-1729-01	Conformance to the required slope, line and grade as per plans and specifications	/	X	
FCWS-1729-02	Conformance to proper methodology for surface preparation	/	X	
FCWS-1729-03	Plant, shrub, grass and tree species used to reinforce soil and stabilize slopes conforms to the approved variety/kind as per approved specifications		X	
FCWS-1729-04	Method of propagation/planting of plant, shrub, grass and tree species conforms to specifications	/	X	
FCWS-1729-05	Inert materials (biotextiles, biomats) used as temporary solutions for superficial lining and erosion protection during the vegetation growth conforms to specifications		=X	
FCWS-1729-06	Inert materials {geomats (with fibers, continuous fibers, grids), geocells, gabions, reno mattresses, hexagonal wire mesh} used for erosion protection caused by impact of raindrops and rills or the flood action of rivers and channels conforms to specifications		=x	
FCWS-1729-07	Inert materials (gabions, georids (extruded, woven, bonded), hexagonal wire mesh, geotextiles (woven, nonwoven)) used for soil reinforcement/soil retaining conforms to specifications	/	X	
FCWS-1729-08	Inert materials (gabions, geomats (continuous fibers, grids), geotextiles (woven, nonwoven)) used for drainage conforms to specifications	/	X	
FCWS-1729-09	Inert materials (double twist wire mesh) used for rockfall protection conforms to specifications	/	X	
FCWS-1729-10	Inert materials installed according to plans and specifications (e.g., size, extent, procedure, lapping, alignment, etc.)	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	1		<del>                                     </del>	

				=	
			/	=x	
Was subcontractor used	? If yes, name of company and ov	wner:		Total Score (a)	CAR Total
	&			No. of Indicators (b)	
Entered by:		Date: / /		Rate = (a) / (b) =	
				Rate	

/

# ANNEX 2-F

# **CHECKLIST FOR POWER TRANSMISSION LINE**

Clearing		
Item 100	ROW Clearing	2F-1
Item 101	Slope Cutting	2F-1
Foundation		
Item 200	Excavation	2F-2
Item 201	Stubs Setting	2F-2
Item 202	Anchor Bolts Setting	2F-2
Item 203	Backfilling	2F-3
Item 204	Grounding System	2F-3
Item 205	Formworks	2F-4
Item 206	Reinforcing Steel Bars	2F-4
Item 207	Concrete	2F-5
Slope Protection		
Item 300	Riprap	2F-6
Item 301	Grouted Riprap	2F-6
Item 302	Rockwall	2F-6
Item 303	Gabions	2F-7
Item 304	Fill	2F-7
Item 305	Sodding	2F-7
Item 306	Sprigging	2F-7
Erection	Springging	21 /
Item 400	Latticed Structure (Tower)	2F-8
Item 401	Steel Poles	2F-9
Item 402	Wood Poles	2F-9
Item 403	Concrete Poles	2F-9
Item 404	Guy	2F-9
Dressing	Suy	2. 0
Item 500	Installation of Insulator String Assembly and Ground Wire Set	2F-1(
	installation of insulator String Assembly and Ground Wife Set	21-10
Stringing	De la Cal OHOM/ACOD	05.4
Item 600	Pay-out of OHGW/ACSR	2F-11
Item 601	Final Sag of Conductors and Overhead Ground Wire	2F-11
Item 602	Installation of Tension Clamps & Hardwares	2F-11
Item 603	Installation of Suspension Clamps & Hardwares	2F-11
Item 604	Installation of Jumper Wires	2F-12
Item 605	Installation of Vibration Dampers	2F-12
Item 606	Installation of Conductor Spacer	2F-12
Item 607	Installation of Joint Box and Other Accessories for OPGW	2F-12
Item 608	Splicing of OPGW	2F-13
Item 609	Splicing of ACSR	2F-13
Item 610	Splicing of OHGW	2F-13
Item 611	Other Accessories	2F-13
<b>Submarine Cable</b>		
Item 700	Trenching Works (Onshore)	2F-14
Item 701	Submarine Cable Laying	2F-14
Item 702	Installation of Accessories	2F-14
Item 703	Backfilling Works (Going to CTS)	2F-14
Underground Cab	le e	
Item 800	Trenching Works (Offshore)	2F-15
Item 801	Grounding Hole	2F-15
Item 802	Underground Cable Laying	2F-15
Item 803	Terminating Cable	2F-16
Item 804	Splice Joint	2F-16
Item 805	Splicing of Cable	2F-16
<b>Pre-Commissionin</b>		
Item 900	Pre-Commissioning	2F-17

PROJECT ID/N	O.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Clearing	
VISIT	LOCATION:		DATE OF VISIT	: / /
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 100 ROW (	Clearing			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
TRLWS-100-01	Survey area is clearly staked to the required ROW width	/	x	
Minor	December 1 of a line to let a second and a second			
TRLWS-100-02	Proper removal of undisputed stumps roots and non- perishable solid objects/structures, vegetation, debris, trees and other obstruction.	/	x =	
TRLWS-100-03	Conformance to proper disposal	/	X	
		/	x	
		/	x	
		/	X	
		/	X	
		/	x	
		/	x	
Item 101 Slope	Cutting			
Minor				
TRLWS-101-01	Conformance to the approved / specified clearance	/	x	
TRLWS-101-02	Proper disposal of cut materials	/	x	
		/	x	
		/	x	
		/	X	
		/	x	
		/	x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date: _ / /	_	Rate = (a) / (b)	
			Rate =	

PROJECT ID/N	O.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Foundation	<u>on</u>
VISIT	LOCATION:		DATE OF VISIT	: <u>/ /</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less	Results	Score x factor	Action / Monitor
	than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 200 Excavation				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major D	efects	
TRLWS-200-01	Conformance to the approved foundation plans for lines, grades, dimensions, elevations.	/	X =	
TRLWS-200-02	Adherence to proper construction methodology.	/	=X	
Minor				
TRLWS-200-02	Adherence to proper construction methodology.	/	=X	
TRLWS-200-03	Conformance to the excavation support system. (i.e. shoring, bracing, sheet piling)	/	=x	
TRLWS-200-04	Proper disposal of excavated materials.	/	=x	
		/	=x	
		/	X	
		/	=X	
		/	x	
		/	=x	
Item 201 Stubs	Setting / 202 Anchor Bolts Setting			
Major*				
TRLWS-2001	Conformance to the setting dimensions in accordance to plans and specifications.	/	X	
TRLWS-2002	Conformance to the required template setting.	/	=X	
TRLWS-2003	Stub/Anchor bolt and template fixed with support.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=x	
Was subcontracto		Total Score (a) =	CAR Total	
&			No. of Indicators (b) =	
Entered by: Date: _ / _ /			Rate = (a) / (b)	
			Rate	
			I	4

PROJECT ID/N	O.: PROJECT TYPE: Transmission Line		ITEM: Foundati	<u>on</u>
VISIT	LOCATION:		DATE OF VISIT: / /	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less	Results	Score	Action /
Code	than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
Item 203 Backfi	lling			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
TRLWS-203-01	Conformance of in-placed materials to plans and specifications.	/	X =	
TRLWS-203-02	Conformance to the required density or degree of compaction	/	X	
Minor				
TRLWS-203-03	Conformance to the required elevation of fill or backfill	/	=X	
TRLWS-203-04	Conformance to ground level restoration	/	X	
TRLWS-203-05	Provision of rain water outlet.	/	X	
		/	X	
		/	X	
		/	X	
		/	x	
		/	x	
Item 204 Groun	ding System			
Minor				
TRLWS-204-01	Conformance to the required grounding resistance.	/	=X	
TRLWS-204-02	Proper installation of grounding / counterpoise.	/	X	
		/	X	
		/	x	
		/	x	
		/	x	
		/	x	
Was subcontractor used? If yes, name of company and owner:			Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by: Date: _ / _ /		_	Rate = (a) / (b)	
			Rate	1
				1

PROJECT ID/NVISIT	O.: PROJECT TYPE: Transmission Line LOCATION/LOT:		ITEM: Foundation	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 205 Formw	vorks			
Minor				
TRLWS-205-01	Conformance to the required type of formworks in accordance with approved shop/working drawings.	/	x	
TRLWS-205-02	Forms coated with mould oil as required.	/	x	
TRLWS-205-03	Sufficient bracing / support.	/	X	
TRLWS-205-04	No loose knots, splits, cracks, etc.	/	x	
TRLWS-205-05	Provision of required concrete or steel spacer.	/	X	
TRLWS-205-06	Conformance to specified tolerances for dimensions, locations, plumbness and alignment.	/	X	
TRLWS-205-07	No use of dilapidated/salvage forms (use more than 3x)	/	=X	
		/	=X	
Item 206 Reinfo Concrete)	rcing Steel Bars (including tendons for Pre/Post-Stressed			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
TRLWS-206-01	Conformance of in-placed materials to plans and specifications.	/	=X	
TRLWS-206-02	Non-appearance of corrosion on steel reinforcement.	/	=X	
Minor				
TRLWS-206-02	Non-appearance of rust on steel reinforcement.	/	=X	
TRLWS-206-03	Conformance to approved bar cutting schedule, proper spacing, anchorage and adequate reinforcements.	/	X	
TRLWS-206-04	No sign of oil, paint and other deleterious materials on reinforcements.	/	=X	
TRLWS-206-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X	
TRLWS-206-06	Conformance to proper bending of stirrups	/	x =	
		/	X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	<u> </u>		No. of Indicators (b) =	
Entered by:	Date: / /	_	Rate= (a) / (b)	
			Rate =	

PROJECT ID/NVISIT	O.: PROJECT TYPE: Transmission Line LOCATION/LOT:		ITEM: Foundation	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 207 Concre	ete			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	efects	
TRLWS-207-01	No through cracks.	/	X	
TRLWS-207-02	No honeycomb (exposed rebars/aggregates).	/	x	
TRLWS-207-03	No sagging or bulging.	/	=X	
TRLWS-207-04	Conformance to required quality of concrete mix	/	X	
TRLWS-207-05	Conformance to the required concrete cover for rebars.	/	X	
TRLWS-207-06	Conformance to the jointing requirement.	/	x	
TRLWS-207-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	x	
Minor				
TRLWS-207-01	No cracks.	/	X	
TRLWS-207-02	No honeycomb.	/	x	
TRLWS-207-03	No sagging or bulging.	/	X	
TRLWS-207-05	Conformance to the required concrete cover for rebars.	/	X	
TRLWS-207-06	Conformance to the jointing requirement.	/	X	
TRLWS-207-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
TRLWS-207-08	Proper and adequate vibration.	/	X	
TRLWS-207-09	Conformance to finishing/plastering requirement.	/	X	
TRLWS-207-10	No chipping off of concrete cover.	/	x	
TRLWS-207-11	Conformance to the batching, mixing, transporting and discharge time requirements.	/	x	
TRLWS-207-12	Proper curing.	/	x	
TRLWS-207-13	Conformance to required dimensions, lines. grades/ elevation, location.	/	x	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Pate= (a) / (b)	
Linered by	Date/ /		Rate= (a) / (b) =	
			Rate	

PROJECT ID/N	NO.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Slope Pr	<u>otection</u>
VISIT	LOCATION:		DATE OF VISIT	Γ: <u>/ /</u>
Footor - "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 300 Ripra	o / 301 Grouted Riprap			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
TRLWS-3001	Conformance to plans and specifications (size, type, weight, etc. of boulders.)	/	X	
TRLWS-3002	Sufficient grout/mortar.	/	X	
TRLWS-3003	Observance to proper placing of stones/boulders.	/	X =	
TRLWS-3004	Conformance to the approved/required tolerance for slope and thickness.	/	X =	
TRLWS-3005	Compliance to the specified compaction and preparation of bedding.	/	X	
TRLWS-3006	Compliance to design mix of mortar.	/	X	
TRLWS-3007	No through cracks	/	X	
TRLWS-3008	Provision of weepholes.	/	x	
Minor				
TRLWS-3007	No cracks.	/	X =	
TRLWS-3008	Adequate and proper spacing of weepholes.	/	X	
		/	X	
		/	=X	
Item 302 Rocky	vall			
Major*				
TRLWS-302-01	Conformance to the required size of boulders.	/	x	
TRLWS-302-02	Observance to proper placement of stones/boulders.	/	X	
TRLWS-302-03	Conformance to the approved/required tolerance for length, slope and thickness.	/	X	
		/	X	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /_	_	Rate = (a) / (b) =	
			Rate =	
				-

PROJECT ID/N	IO.: PROJECT TYPE: <u>Transmission Line</u>	<u> </u>	ITEM: Slope Pre	<u>otection</u>
VISIT	LOCATION:		DATE OF VISIT	Γ: <u>//</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 303 Gabio	ns			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	efects	
TRLWS-303-01	Conformance to the required/approved tolerances for lines, grades, dimensions and arrangements as shown on the plans and designated locations.	/	X	
TRLWS-303-02	Observance to proper placing of stones/boulders.	/	X	
TRLWS-303-03	Conformance to specifications (size, type, weight, etc. of boulders, rocks).	/	X	
Minor				
TRLWS-303-04	No misalignment, bulging.	/	X	
TRLWS-303-05	Conformance to the required wire mesh cage fabrication requirement.	/	x	
		/	x	
Item 304 Fill				
Major*				
TRLWS-304-01	Conformance of in-placed materials to plans and specifications.	/	=x	
TRLWS-304-02	Conformance to the required density or degree of compaction	/	=X	
Minor	Conformance to the required thickness of fill or backfill per		X	
TRLWS-304-03	layer.	/	= X	
		/	=	
Item 305 Soddi	ng / 306 Sprigging			
Minor				
TRLWS-3001	Conformance to the required scope of work.	/	=x	
TRLWS-3002	Healthy, dense and well rooted.	/	X	
TRLWS-3003	Free from weeds or undesirable grasses.	/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / _/	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N	O.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Erection	
VISIT	LOCATION:		DATE OF VISIT	Γ: <u>//</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS		1	1
Sub-item	*Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action /
Code	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
Item 400 Lattice	ed Structure (Tower)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major D	efects	
TRLWS-400-01	Tower parts and accessories are free from damages (i.e, structural steel works, anchor materials, bolts and nuts, washers, guy, etc.).	/	X	
TRLWS-400-02	Connectors of tower members are secured by bolts and nuts and washers.	/	=x	
TRLWS-400-03	Conformance to foundation requirements (i.e, correct orientation, finished elevations, embedded items).	/	=X	
TRLWS-400-04	Conformance to approved erection drawings.	/	=x	
TRLWS-400-05	Tower parts completely installed.	/	=X	
Minor				
TRLWS-400-01	Tower parts and accessories are free from damages (i.e, structural steel works, anchor materials, bolts and nuts, washers, guy, etc.).	/	X	
TRLWS-400-02	Connectors of tower members are secured by bolts and nuts and washers.	/	=X	
TRLWS-400-06	Non-appearance of white rust on all galvanized members and and accessories	/	=X	
TRLWS-400-07	Bolts, nuts and washers conformed to the required number, number, sizes and strength.	/	=X	
TRLWS-400-08	Galvanized bolts and nuts are assembled with finger fit pressure only and interchangeable without shakes.	/	=X	
TRLWS-400-09	Conformance to bolt positions and insertion requirements.	/	=X	
TRLWS-400-10	Bolts fastened with specified torque.	/	=X	
TRLWS-400-11	Tower members are completely installed.	/	=X	
		/	=X	
		,	=X	
		/	X	
		/	=X	
		/	=x	
		/	X	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /_	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N	O.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Erection	
VISIT	LOCATION:		DATE OF VISI	T: <u>/ /</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 401 Steel I	Poles / 402 Woodpoles / 403 Concrete Poles			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Maior D	efects	
TRLWS-4001	Conformance to approved erection drawings.	/	X	
TRLWS-4002	Conformance to the required road right-of-way clearance.	/	x	
TRLWS-4003	Conformance to required pole embedment.	/	x	
TRLWS-4004	Provision of extension arms, brackets, braces, bolts, pole caps and other accessories.	/	=x	
Minor				
TRLWS-4005	Conformance to required backfilling.	/	=x	
TRLWS-4006	Conformance to approved staking distances.	/	X	
TRLWS-4007	Provision of pole identification and tag.	/	x	
TRLWS-4008	Provision of required anti-climbing device.	/	x	
		/	=x	
Item 404 Guy				
Major*				
TRLWS-404-01	Conformance to plans and specifications.	/	x	
TRLWS-404-02	Conformance with the required proper anchorage.	/	x	
TRLWS-404-03	Proper connection of upper and lower guys.	/	x	
Minor				
TRLWS-404-03	Proper connection of upper and lower guys.	/	=X	
TRLWS-404-04	Provision of guy guard.	/	=x	
TRLWS-404-05	Conformance with the required mounting angle.	/	x	
TRLWS-404-06	Provision of porcelain insulator.	/	x	
TRLWS-404-07	Provision of winding grip/turnbuckle.	/	x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date:/_/_	_	= Rate = (a) / (b)	
			]=	
			Rate	

PROJECT ID/N	O.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Dressing	
VISIT	LOCATION:		DATE OF VISIT	: <u>/ /</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 500 Install	ation of Insulator String Assembly and Ground Wire Set			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
TRLWS-500-01	Conformance to the specified insulator string assembly and ground wire set.	/	x	
TRLWS-500-02	Free from any form of damage.	/	X	
Minor				
TRLWS-500-02	Free from any form of damage.	/	X	
TRLWS-500-03	Conformance to required gap and alignment of arcing horns.	/	=x	
		/	x	
		/	x	
		/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: _ / /	_	Rate = (a) / (b)	
			= Rate =	

PROJECT ID/N	O.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Stringing	ı
VISIT	LOCATION:		DATE OF VISIT	: <u>/ /</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Cub itom	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the		Coore	A ation /
Sub-item Code	indicators in the said spot. Further, if the number of complying spots is less than	Results	Score x factor	Action / Monitor
	fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 600 Pay-oเ	ut of OHGW / ACSR			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
TRLWS-600-01	Proper installation of rollers.	/	=x	
TRLWS-600-02	Provision of back guys at each end of stringing section.	/	X	
TRLWS-600-03	Proper installation of anchors on engine puller and tensioner.	/	x	
TRLWS-600-04	Proper installation of scaffoldings on crossings.	/	X	
TRLWS-600-05	Provision of conductor protection to avoid contact to the ground and prevent damage.	/	x	
Item 601 Final S	Sag of Conductors and Overhead Ground Wire			
Major*				
TRLWS-601-01	Conformance to the required clearance between conductors and crossings (i.e. roads, railroads, existing lines, etc.).	/	X	
TRLWS-601-02	No damaged conductors (i.e., cut strands, bird's cage, kinks, etc.).	/	x	
TRLWS-601-03	Conformance to the required sag of conductors.	/	X	
Minor				
TRLWS-601-03	Conformance to the required sag of conductors.	/	=X	
TRLWS-601-04	Conformance to the required location of joint / repair sleeves.	/	=x	
		/	X	
Item 602 Installa Clamps & Hard	ation of Tension Clamps & Hardwares / 603 Suspension wares			
Major*				
TRLWS-6001	Conformance to plans and specifications.	1	=X	
TRLWS-6002	Free from any form of damage.	/	X	
Minor			v	
TRLWS-6002	Free from any form of damage.	1	=X	
TRLWS-6003	Proper installation and correct number of armour rods.	1	=X	
TRLWS-6004	Proper installation of clamps, hardwares, and accessories.	/	X	
		1	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /	_	Rate = (a) / (b)	
			Rate	

PROJECT ID/N	O.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Stringing	
VISIT	LOCATION:		DATE OF VISIT	: <u>/ /</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
ractor. During t	INDICATORS			
Sub-item	*Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action /
Code	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of	Results	x factor	Monitor
	work is zero (0).			
Item 604 Install	ation of Jumper Wires			
Minor				
TRLWS-604-01	Conformance to the required distance between jumper wires and cross arms.	/	X	
TRLWS-604-02	Conformance to jointing / splicing of wires.	/	=x	
TRLWS-604-03	Free from any form of damage.	/	X	
		/	X	
Item 605 Vibrat	ion Dampers			
Minor				
TRLWS-605-01	Installation conforms to plans and specifications.	/	=X	
TRLWS-605-02	Free from any form of damage.	/	x	
TRLWS-605-03	Bolts fastened with specified torque.	/	X	
		/	=x	
Item 606 Condu	octor Spacers			
Minor				
TRLWS-606-01	Installation conforms to plans and specifications.	/	X	
TRLWS-606-02	Free from any form of damage.	/	X	
TRLWS-606-03	Bolts fastened with specified torque.	/	X	
		/	X	
Item 607 Joint L	Box and other Accessories for OPGW			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major D		
TRLWS-607-01	Installation conforms to plans and specifications.	/	X	
TRLWS-607-02	Free from any form of damage.	/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /	_	Rate = (a) / (b)	
			Rate	
			ł	<b>.</b>

PROJECT ID/N	O.: PROJECT TYPE: <u>Transmission Line</u>		ITEM: Stringing	l
VISIT	LOCATION:		DATE OF VISIT	Γ: <u>/ /</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS		_	
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than	Results	Score x factor	Action / Monitor
Code	fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	. 1000.110	X 180101	World
Item 608 Splicii	ng of OPGW			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major D		
TRLWS-608-01	Conformance to plans and specifications.	/	=x	
TRLWS-608-02	Splicing done with proper equipment/tools.	/	=x	
TRLWS-608-03	Enclosure properly sealed and water tight.	/	=x	
TRLWS-608-04	Conformance with the required bonding and grounding.	/	=x	
Minor				
TRLWS-608-03	Enclosure properly sealed and water tight.	/	=x	
TRLWS-608-04	Conformance with the required bonding and grounding.	/	=x	
TRLWS-608-05	Provision of protective device.	/	=x	
		/	=X	
Item 609 Splicii	ng of ACSR / 610 OHGW			
Major*				
TRLWS-6001	Conformance to plans and specifications.	/	=x	
TRLWS-6002	Splicing done with proper equipment/tools.	/	=x	
		/	=x	
Item 611 Other	Accessories			
Minor				
TRLWS-611-01	Installation of step bolts / step ladder.	/	=x	
TRLWS-611-02	Installation of anti-climbing device.	/	=x	
TRLWS-611-03	Installation of warning / danger plate (i.e. conformance to the size and dimension, orientation).	/	x	
TRLWS-611-04	Installation and correct location of patrol numbers (i.e. conformance to the size and dimension, orientation).	/	=x	
TRLWS-611-05	Installation and correct location of seclusion fence (i.e. conformance to the size and dimension).	/	=x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date:/_/_	_	Rate = (a) / (b)	
			= Rate	1
			=	J

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: <u>Transmission Line</u> ITEM: <u>Submarine Cable</u>

VISIT	LOCATION:		DATE OF VISIT	Γ: <u>//</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 700 Trenci	hing Works (Onshore)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
TRLWS-700-01	Conformance to the depth and width requirement.	/	X	
		/	X	
		/	X	
Item 701 Subm	arine Cable Laying			
Major*				
TRLWS-701-01	Conformance to the required cable protection.	/	X	
TRLWS-701-02	Free from any form of damage.	/	x	
Minor				
TRLWS-701-03	Conformance to the required methodology of laying.	/	X	
		/	x	
		/	X	
Item 702 Install	ation of Accessories			
Minor				
TRLWS-702-01	Installation of buoy markers (i.e. number, distances, type/kind, etc.).	/	X =	
TRLWS-702-02	Installation of cable tablets (i.e. dimensions, number, distances, type/kind, etc.).	/	X	
		/	X	
		1	X	
	illing Works (Going to CTS)			
Major*				
TRLWS-703-01	Conformance to the required density or degree of compaction.	/	X	
Minor				
TRLWS-703-02	Conformance to the required elevation of backfill.	/	=x	
TRLWS-703-03	Ground level / Pavement restoration .	/	=x	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /	_	Rate = (a) / (b) =	
			Rate	

PROJECT ID/NVISIT	O.: PROJECT TYPE: <u>Transmission Line</u> LOCATION:		ITEM: <u>Undergro</u> DATE OF VISIT	<u> </u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 800 Trenci	hing Works / 801 Grounding Hole			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	1	
TRLWS-8001	Conformance to the required depth and width of trench.	/	X	
Minor				
TRLWS-8002	Provision of protective cover.	/	=x	
		/	=X	
		/	X	
		/	x	
		/	x	
Item 802 Under	ground Cable Laying			
Major*				
TRLWS-802-01	Conformance to the required methodology.	/	X	
TRLWS-802-02	Free from any form of damage.	/	x	
Minor				
TRLWS-802-03	Conformance to the required cable protection.	/	X	
TRLWS-802-04	Provision of warning tape and concrete plate.	/	x	
TRLWS-802-05	Installation of marking post at specified distance.	/	X	
TRLWS-802-06	Provision of applicable cable spacer.	/	X	
TRLWS-802-07	Conformance to bedding and backfilling requirements.	/	x	
		/	x	
		/	x	
		/	x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	used: If yes, fiame of company and owner.		No. of Indicators (b)	
Entered by:	Date:/_/_	_	Rate = (a) / (b)	
			= Rate	ł
			=	j

PROJECT ID/NVISIT	O.: PROJECT TYPE: <u>Transmission Line</u> LOCATION:	ITEM: <u>Underground Cab</u> DATE OF VISIT: <u>/</u> /		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 803 Cable	Termination			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	efects	
TRLWS-803-01	Conformance to plans and specifications.	/	=x	
Minor				
TRLWS-803-02	Provision of grounding and bonding.	/	=X	
TRLWS-803-03	Identification of cable pair on terminal blocks.	/	=X	
TRLWS-803-04	Provision of cable rack hooks including bolts, plates and cable supporters.	/	=x	
		/	=x	
Item 804 Splice	Joint			
Major*				
TRLWS-804-01	Conformance to plans and specifications.	/	=x	
Minor				
TRLWS-804-02	Provision of grounding and bonding.	/	=x	
		/	=x	
Item 805 Splicir	ng of Cable			
Major*				
TRLWS-805-01	Conformance with the required position.	/	=x	
TRLWS-805-02	Enclosure properly sealed and water tight.	/	=x	
TRLWS-805-03	Splicing done with proper equipment/tools.	/	=X	
Minor				
TRLWS-805-03	Splicing done with proper equipment/tools.	/	=x	
TRLWS-805-04	Conformance with the required bonding and grounding.	/	=x	
TRLWS-805-05	Provision of protective device.	/	=x	
		/	=x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	<u> </u>		No. of Indicators (b) =	
Entered by:	Date: _ / _ /_	_	Rate = (a) / (b)	
			Rate	1
			L	_

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: <u>Transmission Line</u> ITEM: <u>Pre-Commissioning</u>

VISIT	LOCATION:		DATE OF VISIT	Γ:/
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 900 Pre-C	Commissioning			
Minor				
TRLWS-900-01	Conformance to the required line clearances.	/	=X	
TRLWS-900-02	No tripping of line during testing.	/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	X	
		/	=X	
		/	= x	
		,	= Total Score (a)	CAR Total
	or used? If yes, name of company and owner:  & &		= No. of Indicators (b)	
			=	
Entered by:	Date:/_	<u>/</u>	Rate = (a) / (b) =	
			Rate =	

# ANNEX 2-G

# **CHECKLIST FOR SUBSTATION**

Site Develop	ment	
Item 100	Boundary Establishment	2G-1
Item 101	Clearing and Grabbing	2G-1
Item 102	Removal of Structure and Obstruction	2G-1
Item 103	Grading Excavation	2G-1
Item 104	Structure Excavation	2G-1
Item 105	Embankment	2G-2
Item 106	Subgrade Preparation	2G-2
Item 107	Grading Fill	2G-2
Item 108	Backfill	2G-2
Item 109	Selected Fill	2G-2
Item 110	Aggregate Sub-base Course	2G-3
Item 111	Aggregate Base Course	2G-3
Item 112	Portland Cement Concrete Pavement	2G-4
Item 113	Pipe Culvert and Storm Drains	2G-5
Item 114	Manholes, Inlets, and Catch Basins	2G-5
Item 115	Riprap and Grouted Riprap	2G-6
Item 116	Gabion	2G-6
Item 117	Topsoil	2G-7
Item 118	Sprigging	2G-7
Item 119	Sodding	2G-7
Item 120	Ornament Plant/Tree Planting	2G-7
Item 121	Perimeter Fence	2G-7
Item 122	Gate	2G-8
Item 123	Outdoor, Roadway and Perimeter Lighting System	2G-8
Item 124	Deepwell Drilling and Development	2G-9
Item 125	Deepwell Submersible Pump	2G-9
Item 126	Elevated Steel Water Tank	2G-1
Item 127	Domestic Water Supply Piping System	2G-1
Building		
Item 200	Excavation	2G-1
Item 201	Fill and Backfill, Selected Fill	2G-1
Item 202	Soil Poisoning	2G-1
Item 203	CHB Wall	2G-1
Item 204	Brick Wall	2G-1
Item 205	Tiled Finish	2G-1
Item 206	Carpet	2G-1
Item 207	Wood Parquet	2G-1
Item 208	Trowelled Floor Finish	2G-1
Item 209	Pebble Wash-Out	2G-1
Item 210	Waterproofing	2G-1
Item 211	Wall Paper	2G-1
Item 212	Wall Plaster Finish	2G-1
Item 213	Wall Cladding	2G-1
Item 214	Wall Painting	2G-1
Item 215	Ceiling Suspension	2G-1
Item 216	Ceiling Board	2G-1
Item 217	Ceiling Moulding Roofing Frames	2G-1
Item 218 Item 219	•	2G-1 <sup>-</sup> 2G-1
	Roofing Sheets	
Item 220 Item 221	Doors Windows	2G-18 2G-18
Item 222		2G-1
Item 223	Railings Plumbing	2G-18
Item 223	· · · · · · · · · · · · · · · · · · ·	2G-19
Item 225	Sanitary Structural Steel Works	2G-19
Item 226	Electrical Works	2G-2
Item 227	Air Conditioning System	2G-2
110111 221	7 iii Conditioning Cystom	20-2

Item 228	Ventilation System	2G-22
Equipment Fo	undations	
Item 300	Excavation	2G-23
Item 301	Fill and Backfill	2G-23
Item 302	Anchor Bolt Setting	2G-23
Item 303	Cable Trench Cover and Supports	2G-24
Item 304	Gravel Surfacing	2G-24
Common Items		
Item 400	Formworks	2G-25
Item 401	Reinforcing Steel Bars (including tendons for	
	Pre/Post-Stressed Concrete)	2G-25
Item 402	Concrete	2G-26
S/S Equipmen		
Item 500	Gantries, Steel Structures and Supports	2G-27
Item 501	Bus Conductors and Hardwares	2G-27
Item 502	Grounding System	2G-28
Item 503	Power Transformer	2G-29
Item 504	Power Circuit Breaker	2G-29
Item 505	Disconnect/Earthing Switch	2G-30
Item 506	Current Transformer	2G-30
Item 507	Voltage Transformer	2G-30
Item 508	Surge Arrester	2G-31
Item 509	Metal Clad Switch Gear	2G-31
Item 510	Station Service Transformer	2G-31
Item 511	AC and DC Station Auxiliary Switchboard	2G-32
Item 512	Battery Charger	2G-32
Item 513	Storage Battery	2G-33
Item 514	Power/Control Instrumentation Cables	2G-33
Item 515	Uninterruptible Power Supply	2G-34
Item 516 Item 517	Insulating Oil Treatment Plant	2G-35 2G-35
Item 518	Emergency Diesel Generator Set	2G-36
Item 519	Lighting System Conduits and Cable Tray System	2G-37
	· · · · · · · · · · · · · · · · · · ·	20-31
Telecom Syste		2G-38
Item 601	Microwave Equipment Fiber Optic Terminal Equipment	2G-39
Item 602	Power Line Carrier Equipment	2G-39 2G-39
Item 603	Telephone Equipment	2G-40
Item 604	UHF/VHF Radio Equipment	2G-40 2G-40
Item 605	Antenna Tower	2G-41
Item 606	Fiber Optic Cable (Linking the Station)	2G-42
Control Syster	, , ,	20 12
Item 700	Microprocessor Based Control System	2G-43
Item 701	Closed Circuit Television System	2G-43
Item 702	Access Control and Alarm Monitoring System	2G-44
Protection Sys	<u> </u>	20 11
Item 800	Line Protection System	2G-45
Item 801	Substation Protection	2G-45
Item 802	Network Disturbance Monitoring System	2G-46
Item 803	Protection Signaling Equipment	2G-46
Fire Protection		20 .0
Item 900	Fire Pumping System	2G-47
Item 901	Fire Protection Piping System	2G-47
Item 902	Outdoor Hydrant	2G-47 2G-48
Item 903	Hydrant for Transformer Area	2G-48
Item 904	Portable Fire Extinguisher	2G-48
Item 905	Portable Foam Equipment with Foam Concentrate	2G-48
Item 906	Transformer Deluge Water Sprinkler System	2G-48
Item 907	Total Gas Flooding Fire Suppression System	20 10
	(For Control Relay Room and Auxiliary Room)	2G-49
Item 908	Fire Detection and Alarm System	2G-49

PROJECT ID/N	O.: PROJECT TYPE: Substation	ITEM: S	Site Development	
VISIT	LOCATION:	DATE C	OF VISIT: <u>/ /</u>	_
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 100 Bound	ary Establishment			
SSWS-100-01	Boundary of site/area for development accurately established.	/	x	
		/	X	
		/	=x	
101 Clearing an	d Grubbing / 102 Removal of Structure and Obstruction			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	fects	
SSWS-1001	Proper removal of undisputed stumps roots and non- perishable solid objects/structures, vegetation, debris, trees and other obstruction.	/	x	
Minor				
SSWS-1002	Conformance to proper disposal.	/	=X	
		/	=X	
		/	=X	
Item 103 Gradin	g Excavation / 104 Structure Excavation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	fects	
SSWS-1001	Adherence to proper construction methodology.	/	=X	
SSWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
Minor				
SSWS-1001	Adherence to proper construction methodology.	/	=X	
SSWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	x =	
SSWS-1003	Conformance to proper disposal.	/	=X	
		/	X	
		/	X	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date: <u>/ /</u>	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N	O.: PROJECT TYPE: Substation	ITEM: S	Site Development	
VISIT	LOCATION:	DATE C	OF VISIT: <u>/ /</u>	_
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 105 Emban	kment / 106 Subgrade Preparation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
SSWS-1001	Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 105 not undertaken).	/	X	
SSWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
SSWS-1003	Adherence to compaction procedure and required equipment (if no longer correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid).	/	x	
Minor				
SSWS-1001	Adherence to proper construction methodology.	/	X =	
SSWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	x	
SSWS-1003	Adherence to compaction procedure and required equipment (correctible).	/	x =	
		/	X	
		/	x	
		/	x	
Item 107 Gradin	g Fill / 108 Backfill / 109 Selected Fill			
Major				
SSWS-1001	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-1002	Conformance to the required density or degree of compaction.	/	X	
Minor				
SSWS-1003	Conformance to the required thickness of fill or backfill per layer.	/	=X	
		/	X	
		/	x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate =	

PROJECT ID/N	O.: PROJECT TYPE: Substation	ITEM: S	Site Development	
VISIT	LOCATION:	DATE C	OF VISIT: <u>/ /</u>	_
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 110 Aggre	gate Sub-Base Course / 111 Aggregate Base Course			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
SSWS-1101	Conformance of in-placed materials to plans and specifications.	/	=X	
SSWS-1102	Adherence to proper construction methodology. (if no longer correctible, e.g., layer)	/	=x	
SSWS-1103	Conformance w/ approved/specified tolerances on lines, grades, cross-section, thickness, elevation, dimensions & plans. (if no longer correctible, e.g., not extended to shoulder and other succeeding items are already in-placed).	/	x	
SSWS-1104	Conformance to the required compaction.	/	=X	
Minor				
SSWS-1101	Conformance of in-placed materials to plans and specifications.	/	=X	
SSWS-1102	Adherence to proper construction methodology. (correctible)	/	=X	
SSWS-1103	Conformance w/ approved/specified tolerances on lines, grades, cross-section, thickness, elevation, dimensions & plans. (correctible)	/	x =	
SSWS-1104	Conformance to the required compaction.	/	X	
SSWS-1105	Sub-base/Base extended to shoulders.	/	X	
SSWS-1106	Non-occurrence of subbase settlement/upheaval.	/	X	
SSWS-1107	Provision of required stakes.	/	X	
		/	=x	
		/	=x	
		/	=x	
		/	X =	
		/	X	
		/	=X	
		/	=x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date: _ / /	_	Rate = (a) / (b)	
			Rate	

PROJ. ID/NO.:VISIT	PROJECT TYPE: <u>Substation</u> ITEM: <u>Site Development</u> LOCATION/LOT: DATE OF VISIT: _ / _ /			
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 113 Pipe C	culvert and Storm Drains			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	fects	
SSWS-113-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions.	/	X =	
Minor				
SSWS-113-02	No cracks, honeycombs, chipping of edges.	1	X =	
SSWS-113-03	Compliance to joint mortar mixing proportions.	/	X	
SSWS-113-04	Sufficient collaring and flushing.	/	X	
SSWS-113-05	Compliance to the required thickness, compaction & materials requirement of gravel bedding.	/	X	
SSWS-113-06	Compliance to the required thickness & compaction of backfill.	/	X	
SSWS-113-07	Conformance to trenching requirements.	/	X	
SSWS-113-08	Free from debris, siltation, etc.	/	x =	
		/	X	
Item 114 Manho	eles, Inlets, and Catch Basins			
Major				
SSWS-114-01	Conformance to connection requirements between pipes & inlet wall.	/	X	
SSWS-114-02	Conformance with plans and design specifications.	/	X	
Minor				
SSWS-114-03	No damage on manhole, inlets & catch basins.	/	=x	
SSWS-114-04	No cracks.	/	X	
SSWS-114-05	No honeycomb.	/	x	
SSWS-114-06	Free from debris, siltation, etc.	/	X	
SSWS-114-07	Covers and gratings are well fitted and can easily be opened during maintenance work.	/	X	
		/	X	
Was subcontractor	(s) used? If yes, name of company(ies) and sub-item:		Total Score (a)	CAR Total
	<u> </u>		No. of Indicators (b)	
Entered by:	Date: _ / /		Rate = (a) / (b)	
			Rate	

PROJ. ID/NO.:	PROJECT TYPE: Substation	ITEM: Site Development
VISIT	LOCATION/LOT:	DATE OF VISIT: / /

Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action A
Item 112 Portla	nd Cement Concrete Pavement			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	Defects		
SSWS-112-01	No longitudinal cracks.	/	X	
SSWS-112-02	Conformance to vibration requirement.	/	X	
SSWS-112-03	Conformance to quality of concrete mix.	/	X	
SSWS-112-04	Conformance to requirements of construction joints (outside middle thirds).	/	X	
SSWS-112-05	No through cracks (all types of cracks).	/	X	
SSWS-112-06	No scaling (severe, needs Removal and Replacement).	/	X	
SSWS-112-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section. (>10% deficient)	/	X	
Minor	No cracks e.g. transverse, diagonal, temperature, corner,		×	
SSWS-112-05	restraint.	/	=	
SSWS-112-06	No scaling.	/	X	
SSWS-112-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (≤10% deficient).	/	=X	
SSWS-112-08	No honeycomb.	/	X	
SSWS-112-09	No spalling.	/	=X	
SSWS-112-10	No chipped-off edges.	/	X	
SSWS-112-11	Conformance to required size, location & spacing of tie bars and dowel bars as per specifications.	/	X	
SSWS-112-12	Conformance to proper curing procedures.	/	=X	
SSWS-112-13	Utilization of templates prior to pouring.	/	X	
SSWS-112-14	Conformance to placing requirement which will not result to segregation of aggregates, cold joints, misalignment.	/	=X	
SSWS-112-15	Conformance to required amount of asphalt sealant on weakened plane joints. (insufficient and excessive application)	/	=X	
SSWS-112-16	Conformance to requirement of pavement blockings (include depths and widths of weakened plane joints)	/	=X	
SSWS-112-17	No hardened/spilled concrete on pavement.	/	=X	
SSWS-112-18	No pokemarks/tire marks/animal foot marks/skid marks, etc.	/	=X	
SSWS-112-19	Conformance to proper finishing of concrete (brooming)	/	X	
SSWS-112-20	Conformance to formwork requirements (wooden, defective steel and not applied with oil/grease)	/	X	
	r(s) used? If yes, name of company(ies) and sub-item:		Total Score (a)  No. of Indicators (b)	CAR Total
			Rate = (a) / (b)	

PROJECT ID/NVISIT	O.: PROJECT TYPE: <u>Substation</u> LOCATION:		Site Development DF VISIT:/_/	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 117 Topso Planting	il / 118 Sprigging / 119 Sodding / 120 Ornament Plant/Tree			
SSWS-101	Conformance to appropriate type, thickness and density of soil.	/	X	
SSWS-102	Conformance to approved slope.	/	X	
SSWS-103	Conformance to the required type of grass/planting materials.	/	X	
SSWS-104	Healthy, dense and well rooted.	/	=x	
SSWS-105	Free from weeds or undesirable grasses.	/	X	
		/	=X	
		/	X	
Item 121 Perime	eter Fence			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major D	efects	
SSWS-121-01	Conformance to the approved/specified tolerance for alignment, dimension, plumbness and elevation.	/	X	
SSWS-121-02	Conformance to required quality of CHB	/	X	
SSWS-121-03	Conformance to required quality of mortar mix	/	X	
Minor				
SSWS-121-04	Proper spacing of horizontal and vertical bars.	/	X	
SSWS-121-05	Rebars used free from corrosion.	/	X	
SSWS-121-06	Installed according to plans and specifications.	/	X	
SSWS-121-07	Conformance to the specified/designed depth of fence footings.	/	X	
SSWS-121-08	Conformance to the specified/designed length of fence per bay.	/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date:/_/	_	Rate = (a) / (b)	
			Rate =	

PROJECT ID/N	NO.: PROJECT TYPE: Substation LOCATION:	ITEM: S	Site Development DF VISIT:/_/	<u>t</u> -
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 115 Ripra	o and Grouted Riprap			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	fects	
SSWS-115-01	No through cracks.	/	X	
SSWS-115-02	Conformance to specifications (size, type, weight, etc. of boulders).	/	x =	
SSWS-115-03	Sufficient grout/mortar.	/	x =	
SSWS-115-04	Observance to proper placing of stones/boulders.	/	X	
SSWS-115-05	Conformance to the approved/required tolerance for slope and thickness.	/	X	
SSWS-115-06	Compliance to the specified compaction and preparation of bedding.	/	X	
SSWS-115-07	Compliance to design mix of mortar.	/	X	
SSWS-115-08	Provision of weepholes.	/	x	
Minor				
SSWS-115-01	No cracks.	/	X	
SSWS-115-08	Adequate and proper spacing of weepholes.	/	x	
		/	x	
Item 116 Gabio	n			
Major				
SSWS-116-01	Conformance to the required/approved tolerances for lines, grades, dimensions and arrangements as shown on the plans and designated locations.	/	=X	
SSWS-116-02	Observance to proper placing of stones/boulders.	/	x =	
SSWS-116-03	Conformance to specifications (size, type, weight, etc. of boulders, rocks).	/	X	
Minor				
SSWS-116-04	No misalignment, bulging.	/	X	
SSWS-116-05	Conformance to the required wire mesh cage fabrication requirement.	/	x	
		/	X	
Was subcontracto	or used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	1

PROJECT ID/N VISIT	O.: PROJECT TYPE: Substation LOCATION:	·	Site Developmen DF VISIT:/_/	='
		DATE	)F VISIT. <u>7-7</u>	_
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS			
Sub-item Code	"Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 122 Gate				
SSWS-122-01	Conformance to the approved/specified tolerance for alignment, dimension, and plumbness	/	X	
SSWS-122-02	Installed according to plans and specifications.	/	x	
		/	x	
		/	x	
		/	X	
		/	X	
		/	X	
Item 123 Outdo	or, Roadway and Perimeter Lighting System			
SSWS-123-01	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-123-02	Provision of waterproofed structure implement for outdoor illumination.	/	X	
SSWS-123-03	Conformance to the required dimension of lighting poles (height, diameter)	/	x	
SSWS-123-04	Proper installation of lighting poles and fixtures (bulbs, switches, wires, cables, load break switch, power fuse, lightning arrester).	/	=x	
SSWS-123-05	Proper installation of electrical wiring resulting to non-peeling-off of insulation.	/	=x	
SSWS-123-06	Proper installation of conduit pipes.	/	=X	
SSWS-123-07	Provision of concrete encasement for pipes and conduits.	/	=X	
		/	=X	
		/	X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	& &		No. of Indicators (b) =	
Entered by:	Date: _ / _ /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N			Site Developmen	
VISIT	LOCATION:	DATE	OF VISIT:/_/	_
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 124 Deepv	well Drilling and Development			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
SSWS-124-01	Drilled and developed according to plans and specifications.	/	=x	
SSWS-124-02	Complied and passed draw down tests.	/	=x	
SSWS-124-03	Water quality complied and passed test requirements.	/	X	
Minor	Drillian grathed with day and thing of days well			
SSWS-124-04	Drilling method suited to condition of deep well site to be drilled.	/	X	
SSWS-125-05	Method of placing the formation stabilizer/gravel pack in the annulus are done in such a way that separation of gravel and bridging are avoided.	/	=x	
SSWS-124-06	Well is cleaned in accordance with the specified method.	/	=x	
		/	=x	
		/	=x	
		/	=x	
Item 125 Deepv	vell Submersible Pump			
Major				
SSWS-125-01	Complied and passed required test.	/	X	
Minor				
SSWS-125-02	Installed according to plans and specifications complete with controls and accessories.	/	=X	
SSWS-125-03	Provision of steel guard on power cable along the well casing.	/	=X	
SSWS-125-04	Pump is operated in conjunction with the level controller installed at the water tank.	/	=X	
SSWS-125-05	Provision of uPVC conduits for underground power cables.	/	=X	
		/	X	
		/	X	
		/	=x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /		Rate = (a) / (b)	
			Rate =	

PROJECT ID/NVISIT	O.: PROJECT TYPE: <u>Substation</u> LOCATION:		Site Development DF VISIT:/_/	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 126 Elevat	ed Steel Water Tank			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major D	efects	
SSWS-126-01	Elevated water storage tank and support structure are installed in accordance with plans and specifications.	/	=X	
SSWS-126-02	Complied and passed required leak tests.	/	=X	
SSWS-126-03	Free from corrosion and any form of damages.	/	=X	
Minor				
SSWS-126-03	Free from rust and any form of damages.	/	X	
SSWS-126-04	Installed according to plan complete with control and accessories (i.e., balcony with handrail, access caged ladder, air vent, water level indicator, overflow pipe, inlet-outlet piping, drain valves and fittings, level switch attachment, access hatch, beacon red warning light).	/	=x	
SSWS-126-05	Structural members free of twist, bends and deformations.	/	=X	
		/	X	
		/	x	
Item 127 Domes	stic Water Supply Piping System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major D	efects	
SSWS-127-01	Installed pipes, fittings and valves conformed to plans and specifications.	/	=x	
SSWS-127-02	Water line laid not less than 1.0 meter from sewer lines.	/	X	
SSWS-127-03	Complied and passed hydraulic and leak tests.	/	X	
Minor				
SSWS-127-04	Pipes laid free from dirt or other foreign materials.	/	=X	
SSWS-127-05	Provision of pipe sleeves for pipes crossing roadways.	/	=X	
SSWS-127-06	Provision of temporary pipe blind flange/caps at both ends during installation.	/	=X	
SSWS-127-07	Potable water lines are disinfected prior to use.	/	=X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date:/_/	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N	O.: PROJECT TYPE: Substation	ITEM: B	<u>uilding</u>	
VISIT	LOCATION:	DATE C	OF VISIT:/_/	_
Factor : "During O	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 200 Excava	ation			
SSWS-200-01	Conformance to the approved/specified tolerances for extent for lines, grades, dimensions, elevations	/	x	
SSWS-200-02	Conformance to the excavation support system, e.g. angle of repose, bracing, shoring, sheet piling)	/	=x	
		/	X	
		/	x	
		/	x	
		/	x	
Item 201 Fill and	d Backfill, Selected Fill			
SSWS-201-01	Conformance of in-placed materials to plans and specifications.	/	x	
SSWS-201-02	Conformance to the required thickness of fill or backfill per layer.	/	=x	
SSWS-201-03	Conformance to the required density or degree of compaction	/	X	
		/	x	
		/	=X	
		/	=X	
		/	X =	
Item 202 Soil Po	pisoning			
SSWS-202-01	Conformance to the specified concentration of soil poisoning solution.	/	x	
SSWS-202-02	Conformance to the specified rate of application.	/	=x	
		/	x	
		/	x	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date:/_/_	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.: PROJECT TYPE: Substation ITEM: Building

VISIT	LOCATION:	DATE O	)F VISIT: <u>/ /</u>	-
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 203 CHB V	Vall			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major [	Defects	
SSWS-203-01	Conformance to required qualtiy of CHB.	/	X	
SSWS-203-02	Conformance to required quality of mortar mix. (i.e. shoring, bracing, sheet piling)	/	X	
Minor				
SSWS-203-03	Conformance to specified tolerances for dimension, location, plumbness and alignment.	/	X	
SSWS-203-04	Proper spacing of horizontal and vertical bars.	/	X =	
SSWS-203-05	Rebars used free from corrosion.	/	x	
		/	x	
		/	X	
		/	x	
		/	x	
Item 204 Brick	Wall			
Major				
SSWS-204-01	Conformance to required qualtiy of mortar mix.	/	=x	
Minor				
SSWS-204-02	Conformance to specified tolerances for dimension, location, plumbness and alignment.	/	X =	
SSWS-204-03	Proper spacing of horizontal and vertical bars.	/	X =	
SSWS-204-04	Rebars used free from corrosion.	/	=X	
		/	X	
		/	=x	
		/	x	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date:/_/_	-	Rate = (a) / (b)	
			Rate	

PROJECT ID/NC	D.: PROJECT TYPE: Substation LOCATION:	ITEM: B DATE O	uilding F VISIT: <u>/ /</u>	-
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 205 Tiled F	inish			
SSWS-205-01	Installed tiles free from chipping, cracks or any form of damages.	/	X	
SSWS-205-02	Mortar/Grout consistency and color conform to specification.	/	X	
SSWS-205-03	Joints are perfectly aligned and consistent with skirting and wall tiles.	/	X	
SSWS-205-04	Tiles are evenly placed/laid.	/	X	
SSWS-205-05	Tiles in wet areas sloped down to drain.	/	X	
SSWS-205-06	Tiles are properly bonded to floor.	/	X	
		/	x	
Item 206 Carpe	t			
SSWS-206-01	Evenly stretched and of even surface.	/	X	
SSWS-206-02	Properly anchored at all edges.	/	X	
SSWS-206-03	Provided with underlining.	/	X	
SSWS-206-04	Free from any form of damages.	/	X	
SSWS-206-05	Materials conform to specification as per plan.	/	=X	
		/	=x	
Item 207 Wood	Parquet			
SSWS-207-01	Conforms to designed layout.	/	X	
SSWS-207-02	Even surfaces.	/	X	
SSWS-207-03	Free from any form of damage.	/	X	
SSWS-207-04	Adhesive conforms to specifications.	/	=X	
SSWS-207-05	Parquet properly bonded to floor.	/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /	-	Rate = (a) / (b) =	
			Pate	

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: Substation ITEM: Building

VISIT	LOCATION:	DATE O	F VISIT: <u>/ /</u>	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 208 Trowe	lled Floor Finish			
SSWS-208-01	Smooth and even floor finish.	/	X	
SSWS-208-02	No temperature cracks.	/	X	
SSWS-208-03	No sign of deflection/settlement.	/	x	
		/	x	
		/	x	
		/	X	
Item 209 Pebble	e Washout			
SSWS-209-01	Installed pebbles are evenly distributed.	/	X	
SSWS-209-02	No temperature cracks.	/	X	
SSWS-209-03	Installed pebbles surface are thoroughly clean from cement.	/	x	
		/	X	
		/	X	
		/	X	
Item 210 Water	proofing			
SSWS-210-01	Conforms to specified method of application.	/	X	
SSWS-210-02	Conforms to number of coats/layers required.	/	x	
SSWS-210-03	Passed required leak test.	/	X	
SSWS-210-04	Conformance to the required materials specifications as per plan.	/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /	-	Rate = (a) / (b)	
			Rate	

PROJECT ID/NO VISIT	D.: PROJECT TYPE: <u>Substation</u> LOCATION:	ITEM: B	<u>uilding</u> )F VISIT: //	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			_
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 211 Wall F	Paper			
SSWS-211-01	Smooth and evenly pasted.	/	X	
SSWS-211-02	Free from scratches, stains, etc.	/	X	
		/	x	
		/	x	
		/	x	
lem 212 Wall P	Plaster Finish			
SSWS-212-01	Conformance to designed mixture of plastering materials.	/	x	
SSWS-212-02	Conformance to specified method of application and thickness of plastering.	/	x	
SSWS-212-03	True to alignment.	/	x	
SSWS-212-04	Free from any form of damages, e.g. cracks, peeled-off plaster finish	/	x	
	,	/	x	
		/	x	
		/	X	
Item 213 Wall	Cladding			
SSWS-213-01	Panels properly anchored.	/	X	
SSWS-213-02	True to alignment, plumbness.	/	X	
SSWS-213-03	Free from any form of damages.	/	x	
SSWS-213-04	Panels conform to construction procedure.	/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date:/_/_	-	Rate = (a) / (b)	
			Rate	1

PROJECT ID/NC	D.: PROJECT TYPE: <u>Substation</u> LOCATION:	ITEM: <u>B</u> DATE O	<u>uilding</u> F VISIT: <u>/ /</u>	_
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 214 Wall P	ainting			
SSWS-214-01	Surface prepared according to specification.	/	x	
SSWS-214-02	Required neutralizers, etc. applied.	/	x	
SSWS-214-03	Applied paint appropriate to the surface.	/	X	
SSWS-214-04	Specified number of coats applied.	/	X	
SSWS-214-05	Surfaces evenly painted, proper opacity.	/	x	
SSWS-214-06	No discoloration and peeling-off of paint.	/	x	
SSWS-214-07	Paints conform to specification/requirements.	/	x	
SSWS-214-08	Surfaces are properly applied with putty/patching compound.	/	x	
		/	x	
		/	x	
		/	x	
		/	x	
Item 215 Ceilin	g Suspension			
SSWS-215-01	Conformance to the specified spacing and length of hangers, clips and joists.	/	x	
SSWS-215-02	Installed hangers are properly anchored and firm.	/	x	
SSWS-215-03	True to alignment and elevation in conformance to the approved specified tolerance.	/	x	
SSWS-215-04	Free from any form of damage.	/	x	
		/	x	
		/	x	
		/	x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
		_	No. of Indicators (b)	
Entered by:	Date://_	-	Rate = (a) / (b)	

PROJECT NO.: _ VISIT	PROJECT TYPE: <u>Substation</u> LOCATION:	ITEM: <u>Building</u> DATE OF VISIT: <u>/ /</u>		
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 216 Ceiling	g Board			
SSWS-216-01	Materials free from any form of damage.	/	X	
SSWS-216-02	Smooth surface and true to elevation and alignment.	/	X	
SSWS-216-03	Location of holes for utilities conforms to plans.	/	X	
SSWS-216-04	Ceiling boards are properly fastened.	/	X	
		/	X	
Item 217 Ceilin	g Moulding			
SSWS-217-01	True to elevation and alignment.	/	X	
SSWS-217-02	Installed materials are free from any form of damages.	/	X	
		/	X	
Item 218 Roofii	ng Frames			
SSWS-218-01	Conformance to the required size, spacing, slope, anchorage, etc.	/	X	
SSWS-218-02	Free from any form of damage.	/	X	
SSWS-218-03	Cleats are properly provided.	/	X	
SSWS-218-04	Application of paint primer prior to installation	/	X	
		/	X	
Item 219 Roofin	g Sheets			
SSWS-219-01	Conformance to the specified gauge, length, etc.	/	X	
SSWS-219-02	Conformance to the specified overlapping, sealing of joints, fastening.	/	X	
SSWS-219-03	Installation of flashing, gutters, ridge rolls, downspouts, etc., according to plans.	/	x	
SSWS-219-04	Non-occurrence of leaks.	/	x	
SSWS-219-05	Free from any form of damage.	/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
		_	No. of Indicators (b)	
Entered by:	Date:/_/_	-	Rate = (a) / (b)	
			Rate	

PROJECT NO.: _ VISIT	PROJECT TYPE: Substation LOCATION:	ITEM: <u>B</u>	<u>uilding</u> DF VISIT: //	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			-
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 220 Doors				
SSWS-220-01	True to alignment, plumbness in conformance to the approved/specified tolerance.	/	X	
SSWS-220-02	Doors are well fitted to the door frames.	/	X	
SSWS-220-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers.	/	X	
SSWS-220-04	Free from any form of damage.	/	X	
SSWS-220-05	Doors conform to specification requirements, e.g. panel door, flush door polyvinyl, steel doors, etc.	/	=x	
		/	=x	
		/	x	
Item 221 Windo	ows			
SSWS-221-01	True to alignment and elevation in conformance to the approved/specified tolerance.	/	x	
SSWS-221-02	Windows are well fitted to the window frames.	/	X	
SSWS-221-03	Window accessories installed according to plans, e.g. handles, seals, glazing for glass window, etc.	/	=x	
SSWS-221-04	Free from any form of damage.	/	X	
SSWS-221-05	Windows conform to specification requirements, e.g. sliding, jalousies (glass and wooden) steel casement windows.	/	x	
		/	X	
		/	X	
Item 222 Railin	gs			
SSWS-222-01	Installed according to plans.	/	x	
SSWS-222-02	Free from dents, scratches or any form of damage.	/	X	
SSWS-222-03	Bends and curves are smooth.	/	X	
SSWS-222-04	Conforms to approved tolerance size, dimension, height and type, e.g. concrete, steel, stainless, aluminum, etc.	/	X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date: _ / _/	_	Rate = (a) / (b)	
			– Rate	1

PROJECT ID/NO.: PROJECT TYPE: Substation ITEM: Building				
VISIT	LOCATION: DAT	E OF VI	SIT: / /	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 225 Struct	ural Steel Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major D	efects	
SSWS-225-01	Conformance of in-placed materials to plans and specifications.	/	=x	
SSWS-225-02	Conformance to required fasteners, anchor bolts, bolts/nuts and washers (not provided).	/	x	
SSWS-225-03	Free from corrosion and any other form of damages.	/	x	
SSWS-225-04	Conformance to splicing requirements.	1	x	
Minor				
SSWS-225-03	Free from rust and any other form of damages.	/	=X	
SSWS-225-05	Conformance to the specified type of welding.	/	=x	
SSWS-225-06	Fasteners, anchor bolts, bolts/nuts & washers conforms to specified size, strength, etc.	/	=x	
SSWS-225-07	Installed according to plans.	/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	=x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date:/_/		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.: PROJECT TYPE: Substation ITEM: Building

VISIT	LOCATION: DATE OF VISIT: _ / _ /_			
Factor · "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots less than fifty percent (50%) of the total number of spots, the rating for the specific item of work is zero (0).	s Results	Score x factor	Action / Monitor
Item 223 Plumb	ing			
SSWS-223-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports.	/	X	
SSWS-223-02	Conducted and passed the required leak test.	/	x	
SSWS-223-03	Pipes not clogged.	/	x	
SSWS-223-04	Free from any form of damages.	/	x	
SSWS-223-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location.	/	x	
SSWS-223-06	Adhesive conform to specification.	/	x	
SSWS-223-07	Water closet, lavatory conform to specification.	/	x	
		/	X	
		/	x	
		/	x	
Item 224 Sanita	ary			
SSWS-224-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports.	/	x	
SSWS-224-02	Conducted and passed the required pressure/leak test.	/	x	
SSWS-224-03	Pipes not clogged.	/	x	
SSWS-224-04	Free from any form of damages.	/	x	
SSWS-224-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location.	/	X	
SSWS-224-06	Adhesives conform to specifications.	/	=x	
		/	X	
		/	X	
		/	=x	
Was subcontractor used? If yes, name of company and owner:			Total Score (a)	CAR Total
&			No. of Indicators (b) =	
Entered by: Dat			Rate = (a) / (b)	
			Rate =	

PROJECT ID/NVISIT	O.: PROJECT TYPE: <u>Substation</u> LOCATION:	ITEM: <u>B</u>	<u>uilding</u> PF VISIT: <u>/ /</u>	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 226 Electr	ical Works			
SSWS-226-01	Pipes installed according to plans and laid out according to approved construction drawings.	/	X	
SSWS-226-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed.	/	X	
SSWS-226-03	Pipes properly bended.	/	X	
SSWS-226-04	Allowable number of wires in a pipe properly observed.	/	X	
SSWS-226-05	Splicing and connection provided with adequate rubber and pvc tapes.	/	X	
SSWS-226-06	Adequate length of wire provided for termination and splicing.	/	X	
SSWS-226-07	Wire color coding complied and observed.	/	X	
SSWS-226-08	Wire insulation not damaged during pulling.	/	X	
SSWS-226-09	Adequate number, correct size and gauge of pull boxes installed and properly covered.	/	X	
SSWS-226-10	Boxes and enclosures provided according to intended purpose.	/	X	
SSWS-226-11	Fittings and accessories provided and properly installed.	/	X	
SSWS-226-12	Block-outs and sleeves provided and properly secured.	/	X	
SSWS-226-13	Cable ties provided.	/	X	
SSWS-226-14	Blank covers provided for outlets and switches that are not utilized.	/	X	
SSWS-226-15	Use of tools and equipment properly observed.	/	X	
SSWS-226-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages.	/	X	
SSWS-226-17	Meager, clamp, phase sequence tests and load test conducted.	/	X	
SSWS-226-18	Shop drawings, as-built plan maintained.	/	X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date:/_/_	_	Rate = (a) / (b)	
			Rate =	
			_	

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: Building
VISIT	LOCATION:	DATE OF VISIT: //

	INDICATORS			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
tem 227 Air Co	onditioning System			
SSWS-227-01	Air-conditioning units, transfer fans, pipes, ducts, condensers are installed according to plans.	/	X	
SSWS-227-02	Jointing of pipes and ducts conform to specified jointing system.	/	X	
SSWS-227-03	Pipes and ducts free from leaks.	/	=X	
SSWS-227-04	Pipes and ducts sufficiently braced/supported.	/	=x	
SSWS-227-05	Installed materials free from any form of damage.	/	X	
SSWS-227-06	Conducted and passed the required tests.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
tem 228 Ventil	ation System			
SSWS-228-01	Conformance to the design specifications / drawings.	/	X	
SSWS-228-02	Casing free from dent.	/	X	
SSWS-228-03	Conducted and passed the required tests.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
as subcontracto	or used? If yes, name of company and owner:		Total Score (a)	CAR Total
	& &		No. of Indicators (b)	
tered by:	Date:/_/		Rate = (a) / (b)	
			= Rate	1

PROJECT ID/NVISIT	O.: PROJECT TYPE: <u>Substation</u> ITEN LOCATION: DAT		ment Foundation SIT://_	<u>s</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 300 Excav	ation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major D	efects	
SSWS-300-01	Conformance to the approved foundation plans for lines, grades, dimensions, elevations	/	=X	
SSWS-300-02	Conformance to the excavation support system (i.e. shoring, bracing, sheet piling)	/	=x	
SSWS-300-03	Adherence to proper construction methodology.	/	=X	
Minor				
SSWS-300-01	Conformance to the approved foundation plans for lines, grades, dimensions, elevations	/	=X	
SSWS-300-03	Adherence to proper construction methodology.	/	=X	
SSWS-300-04	Conformance to proper disposal of excavated materials.	/	=X	
		/	=X	
Item 301 Fill an	d Backfill			
Major				
SSWS-301-01	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-301-02	Conformance to the required thickness of fill or backfill per layer	/	X	
SSWS-301-03	Conformance to the required density or degree of compaction	/	X	
Minor				
SSWS-301-04	Conformance to ground level restoration.	/	=X	
		/	=X	
Item 302 Ancho	r Bolt Setting			
Major				
SSWS-302-01	Conformance to the anchor bolt setting dimensions.	/	=X	
SSWS-302-02	Precise setting of template.	/	=X	
Minor				
SSWS-302-03	Anchor bolts and templates fix with supporter.	/	=X	
		/	X =	CAR Total
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR 10lal
Entered by:		_	Rate = (a) / (b)	
			Rate = (a) 7 (b)	
			_	

PROJECT ID/NO.: PROJECT TYPE: Substation ITEM: Equipment Foundation		<u>ıs</u>		
VISIT	LOCATION:DAT	E OF VI	SIT: <u>/ /</u>	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 303 Cable	Trench Cover and Supports			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
SSWS-303-01	Provision of block-outs for installation of metal works.	/	=x	
SSWS-303-02	Metal works and materials installed in accordance to the details shown in the drawing (alignment, position).	/	X	
SSWS-303-03	Block-outs were grouted after installation of metal works.	/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Item 304 Grave	l Surfacing			
Major				
SSWS-304-01	Conformance to required lines, grades and thickness.	/	=X	
Minor			V	
SSWS-304-02	Compliance to the specified construction methodology.	/	=x	
SSWS-304-03	No oversize/undersize of in-placed materials.	/	=x	
		/	=X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date:/ /_		Rate = (a) / (b) =	
			Rate =	

VISIT			on items of vvoi SIT:/_/_	<u>"K</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 400 Formy	vorks			
Minor				
SSWS-400-01	Conformance to the required type of formworks in accordance with approved shop/working drawings.	/	x	
SSWS-400-02	Forms coated with mould oil as required.	/	x	
SSWS-400-03	Sufficient bracing / support.	/	x	
SSWS-400-04	No loose knots, splits, cracks, etc.	/	x	
SSWS-400-05	Provision of required concrete or steel spacer.	/	x	
SSWS-400-06	Conformance to specified tolerances for dimensions, locations, plumbness and alignment.	/	=x	
SSWS-400-07	No use of dilapidated/salvage forms (use more than 3x)	/	=X	
		/	x	
Item 401 Reinfo Concrete)	orcing Steel Bars (including tendons for Pre/Post-Stressed			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-401-01	Conformance of in-placed materials to plans and specifications.	/	x	
SSWS-401-02	Non-appearance of corrosion on steel reinforcement.	/	=x	
Minor				
SSWS-401-02	Non-appearance of rust on steel reinforcement.	/	=x	
SSWS-401-03	Conformance to approved bar cutting schedule, proper spacing, anchorage and adequate reinforcements.	/	x =	
SSWS-401-04	No sign of oil, paint and other deleterious materials on reinforcements.	/	x =	
SSWS-401-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X	
SSWS-401-06	Conformance to proper bending of stirrups	/	x =	
		1	x	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate= (a) / (b)	
			Rate	

PROJECT ID/N	DJECT ID/NO.: PROJECT TYPE: Substation ITEM: Common Items of Work LOCATION/LOT: DATE OF VISIT: _/ /_			<u>·k</u>
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 402 Concre	ete			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I	Defects	
SSWS-402-01	No through cracks.	/	=X	
SSWS-402-02	No honeycomb (no exposed rebars/aggregates).	/	=x	
SSWS-402-03	No sagging or bulging.	/	=X	
SSWS-402-04	Conformance to required quality of concrete mix	/	=X	
SSWS-402-05	Conformance to the required concrete cover for rebars.	/	X	
SSWS-402-06	Conformance to the jointing requirement.	/	X	
SSWS-402-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
Minor				
SSWS-402-01	No cracks.	/	=X	
SSWS-402-02	No honeycomb.	/	X	
SSWS-402-03	No sagging or bulging.	/	=X	
SSWS-402-05	Conformance to the required concrete cover for rebars.	/	=X	
SSWS-402-06	Conformance to the jointing requirement.	/	X	
SSWS-402-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
SSWS-402-08	Proper and adequate vibration.	/	X	
SSWS-402-09	Conformance to finishing/plastering requirement.	/	=x	
SSWS-402-10	No chipping off of concrete cover.	/	X	
SSWS-402-11	Conformance to the batching, mixing, transporting and discharge time requirements.	/	X	
SSWS-402-12	Proper curing.	/	X	
SSWS-402-13	Conformance to required dimensions, lines. grades/ elevation, location.	/	X	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date:/_/_	_	Rate= (a) / (b)	
			– Rate	1

PROJECT NO.: \_\_\_\_ PROJECT TYPE: <u>Substation</u> ITEM: <u>S/S Equipment Installation</u>

VISIT	LOCATION: DAT	E OF VIS	SIT: <u>/ /</u>	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 500 Gantri	es, Steel Structures and Supports			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major [	Defects	
SSWS-500-01	Conformance with the approved Erection Drawings and installation methodologies.	/	=X	
SSWS-500-02	Templates are used for setting anchor bolt system.	/	x	
Minor				
SSWS-500-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	=X	
SSWS-500-04	Stitch bolts are used in connecting double angle members. members.	/	=X	
SSWS-500-05	Correct direction and bolt position of bolt insertion.	/	=X	
SSWS-500-06	Conformance with specified tolerances for plumbness and alignment.	/	=X	
SSWS-500-07	No damage/defective structural members.	/	=X	
		/	=X	
Item 501 Bus Co	nductors and Hardwares			
Major				
SSWS-501-01	Installed according to approved plans and specifications.	/	X	
SSWS-501-02	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-501-03	Conductors are free from copper dust and particles.	/	=X	
SSWS-501-04	No damage/defective members.	/	=X	
SSWS-501-05	Connectors/Terminal pad are equipped with approved type of bolts, nuts, flat washer and bevelled washers.	/	=X	
SSWS-501-06	Terminal connectors are free from burrs, edges, fillet, damage and cracks.	/	=X	
SSWS-501-07	Approved as-built drawings maintained.	/	=X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	
				-

PROJECT NO.:			uipment Installat	tion
VISIT	LOCATION: DAT	E OF VIS	SIT: <u>/ /</u>	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 502 Groun	ding System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-502-01	Installed according to approved plans and specifications.	/	X	
SSWS-502-02	Grounding connections are properly welded through exothermic process.	/	x	
SSWS-502-03	Overhead ground wire are properly strung according to specified tension and sag.	/	X	
SSWS-502-04	Conducted and passed all required ground resistance tests.	/	X	
Minor				
SSWS-502-03	Overhead ground wire are properly strung according to specified tension and sag.	/	=X	
SSWS-502-04	Conducted and passed all required ground resistance tests.	/	X	
SSWS-502-05	Ground rods installed according to approved plans.	/	=X	
SSWS-502-06	Grounding trenches are excavated according to specified depth and width.	/	X	
SSWS-502-07	Provision of bedding materials for ground wire.	/	X	
SSWS-502-08	Ground leads are properly supported by clamps at specified intervals.	/	x	
SSWS-502-09	Shield wires and accessories are protected by specified corrosion inhibitor.	/	X	
SSWS-502-10	Steel structures with insulators or apparatus are properly connected to the ground mat.	/	X	
SSWS-502-11	Structures with more than one leg are properly connected to the ground mat with risers at minimum of 2 different points.	/	x	
SSWS-502-12	Substation equipment are properly grounded to two different points of the ground mat.	/	x	
SSWS-502-13	Lighting poles and other metal structures are properly connected to ground mat.	/	X	
SSWS-502-14	Cable trays, ladder, fence and gates are properly connected to ground mat.	/	x	
SSWS-502-15	Approved as-built drawings maintained.	/	=x	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
		_	No. of Indicators (b)	
Entered by:	Date: <u>//</u>		Rate = (a) / (b) =	
			Rate =	1
			P	•

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: Substation ITEM: S/S Equipment Installation

VISIT	LOCATION: DATE OF VISIT: _ / _ /			
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item	*Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action /
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	x factor	Monitor
	specific item of work is zero (0).			
Item 503 Power	Transformer			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major I	Defects	
SSWS-503-01	Installed according to approved plans and specifications.	/	=X	
SSWS-503-02	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-503-03	Properly aligned and leveled.	/	=X	
SSWS-503-04	Appurtenants are clean and free from damages.	/	=X	
SSWS-503-05	Tanks, conservator, radiators coolers and fittings are free from oil leaks.	/	=X	
SSWS-503-06	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	=X	
		/	X	
Item 504 Power	Circuit Breaker			
Major				
SSWS-504-01	Installed according to approved plans and specifications.	/	=X	
SSWS-504-02	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-504-03	Mounting bases are properly aligned and leveled.	/	=X	
SSWS-504-04	Installed materials are free from damages.	/	=X	
SSWS-504-05	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: _ / /_		Rate = (a) / (b)	
			= D-t-	4
			Rate =	<b>]</b>

PROJECT ID/NO	NO.: PROJECT TYPE: <u>Substation</u> ITEM: <u>S/S Equipment Installation</u>			tion	
VISIT	LOCATION: DAT	LOCATION: DATE OF VISIT://			
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50				
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor	
Item 505 Discon	nect / Earthing Switch				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major D	Defects		
SSWS-505-01	Installed according to approved plans and specifications.	/	=x		
SSWS-505-02	Conducted and passed the required tests.	/	=x		
Minor					
SSWS-505-03	Moving parts are properly aligned and leveled.	/	=x =		
SSWS-505-04	Installed materials are free from damages.	/	X =		
SSWS-505-05	Approved as-built drawings maintained.	/	X =		
		/	=x		
		/	x		
		/	=x		
		/	X		
Item 506 Curren	t Transformer / 507 Voltage Transformer				
Major					
SSWS-5001	Installed according to approved plans and specifications.	/	X =		
SSWS-5002	Conducted and passed the required tests.	/	X		
Minor					
SSWS-5003	Installed materials are free from damages.	/	X =		
SSWS-5004	Approved as-built drawings maintained.	/	=x		
		/	=x =		
		/	X =		
		/	X =		
		/	=x		
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total	
	&		No. of Indicators (b) =		
Entered by:	Date: <u>//</u>		Rate = (a) / (b)		
			= Rate		
			=		

PROJECT ID/NOVISIT			quipment Installat T: <u>/</u> _	tion_
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 508 Surge	Arrester			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-508-01	Installed according to approved plans and specifications.	/	X	
SSWS-508-02	Conducted and passed the required tests.	/	x	
Minor				
SSWS-508-03	Installed materials are free from damage.	/	X	
SSWS-508-04	Discharge counter and cable are properly braced and connected to ground mat.	/	X	
SSWS-508-05	Approved as-built drawings maintained.	/	X	
Item 509 Metal (	Clad Switchgear			
Major				
SSWS-509-01	Installed according to approved plans and specifications.	/	=x	
SSWS-509-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-509-03	Stationary and moving assembly are properly aligned.	/	X	
SSWS-509-04	Installed materials are free from damage.	/	X	
SSWS-509-05	Approved as-built drawings maintained.	/	X	
Item 510 Station	Service Transformer			
Major				
SSWS-510-01	Installed according to approved plans and specifications.	/	X	
SSWS-510-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-510-03	Provision of proper ventilaton from the base of the finish ground level for cooling purposes.	/	X	
SSWS-510-04	Properly aligned and leveled.	/	=X	
SSWS-510-05	Radiators and coolers are free from oil leaks.	/	x	
SSWS-510-06	Approved as-built drawings maintained.	/	x	
	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date:/_/	_	= Rate = (a) / (b)	
· ,			= Rate	
				Ī

PROJECT ID/N VISIT			<u>quipment Installat</u> SIT: <u>/</u> _/_	<u>tion</u>
	Construction" = 0.40; "Upon Completion" = 0.50		<u> </u>	
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 511 AC an	d DC Station Auxillary Switchboard			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-511-01	Installed according to approved plans and specifications.	/	X	
SSWS-511-02	Conducted and passed the required tests.	/	x	
Minor				
SSWS-511-03	Terminal lugs are grip insulated.	/	=X	
SSWS-511-04	Conformance to proper wirings, markings, tags and ties.	/	=X	
SSWS-511-05	Installed materials are free from damage.	/	X	
SSWS-511-06	Approved as-built drawings maintained.	/	x	
		/	=x	
		/	X	
Item 512 Batter	y Charger			
Major				
SSWS-512-01	Installed according to approved plans and specifications.	/	=X	
SSWS-512-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-512-03	Conformance of wiring to required bending radius.	/	=X	
SSWS-512-04	Cable clamps are uniformly spaced.	/	X =	
SSWS-512-05	Terminal lugs are grip insulated.	/	X	
SSWS-512-06	Installed materials are free from damage.	/	X	
SSWS-512-07	Approved as-built drawings maintained.	/	X	
		/	=X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: <u>//</u>		Rate = (a) / (b)	
			Rate	1
				J

PROJECT ID/NVISIT			<u>uipment Instal</u> SIT: <u>/</u>	lation
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 513 Storag	e Battery			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	efects	
SSWS-513-01	Installed according to approved plans and specifications.	/	=X	
SSWS-513-02	Conducted and passed the required tests.	/	x	
Minor				
SSWS-513-03	Battery racks are free from rust/corrosion.	/	x =	
SSWS-513-04	Current carrying parts are properly insulated.	/	x	
SSWS-513-05	No damage/defect in any material.	/	X	
SSWS-513-06	Battery rooms are properly ventilated with exhaust fan and sealed to prevent entry of dust.	/	X	
SSWS-513-07	Approved as-built drawings maintained.	/	x	
		/	X	
Item 514 Power	/ Control / Instrumentation Cables			
Major				
SSWS-514-01	Installed according to approved cable schedule.	/	X	
SSWS-514-02	Conducted and passed required tests.	/	X	
Minor				
SSWS-514-03	Cables are properly installed and placed in conduits, cable trays and trenches.	/	X	
SSWS-514-04	Cables not yet terminated are properly sealed to prevent moisture into the cable.	/	x	
SSWS-514-05	Conformance to proper wirings, markings, tags and ties.	/	x	
SSWS-514-06	No splicing along trays and trench.	/	x	
SSWS-514-07	Termination of conductors to terminal blocks are provided with terminal lugs, insulated and gripped.	/	x	
SSWS-514-08	Approved as-built drawings maintained.	/	x =	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date:/_/_		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N VISIT	ECT ID/NO.:       PROJECT TYPE:       Substation       ITEM:       S/S Equipment Installation         LOCATION:       DATE OF VISIT:       /			<u>tion</u>
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 515 Uninte	rruptible Power Supply			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-515-01	Installed according to approved plans and specifications.	/	=X	
SSWS-515-02	Conducted and passed the required tests.	/	=x	
Minor				
SSWS-515-03	Seismic anchor and clamping device are fixed to foundation.	/	=X	
SSWS-515-04	Termination of conductors to terminal blocks are provided with terminal lugs, insulated and gripped.	/	X =	
SSWS-514-05	Conformance to proper wirings, markings, tags and ties.	/	X	
SSWS-515-06	No splicing of wires.	/	X	
SSWS-515-07	Maximum of two lines are connected to one terminal block point.	/	X	
SSWS-515-08	Approved as-built drawings maintained.	/	=x	
		/	=X	
		/	X	
		/	=x	
		/	=x	
		/	X	
		/	=x	
		/	=x	
		/	=x	
		/	x	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:	-	Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date://_		Rate = (a) / (b)	
			Rate	1
			_	J

PROJECT ID/N VISIT		/I: <u>S/S Equipment Installation</u> E OF VISIT: <u>/</u>		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 516 Insula	I ting Oil Treatment Plant			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-516-01	Installed according to approved plans and specifications.	/	=x	
SSWS-516-02	Conducted and passed required tests.	/	X	
Minor				
SSWS-516-03	Installed plant and accessories are free from any form of damage.	/	=x	
		/	X	
Item 517 Emerg	ency Diesel Generator Set			
Major				
SSWS-516-01	Installed according to approved plans and specifications.	/	=x	
SSWS-517-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-517-03	Exhaust system is properly fastened, supported with expansion materials, and insulated.	/	=X	
SSWS-517-04	Fuel tanks and piping system are leak-free.	/	=X	
SSWS-517-05	Generator set and accessories are free from damages.	/	=X	
		/	=X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date:/_/_		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NVISIT			<u>uipment Installat</u> SIT: <u>//</u>	<u>ion</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 518 Lightii	ng System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major I	Defects	
SSWS-518-01	Installed according to approved plans and specifications.	/	=X	
SSWS-518-02	Conducted and passed required tests.	/	=X	
Minor				
SSWS-518-03	Pull boxes are properly installed and covered.	/	=X	
SSWS-518-04	Outlet boxes are firmly anchored in-placed with fixture supports.	/	=X	
SSWS-518-05	No exposed pulling boxes in areas normally occupied by working personnel.	/	=X	
SSWS-518-06	Lighting panels are surface/recess-mounted with proper identifications/labeling on all branch circuits.	/	=X	
SSWS-518-07	Conformance to allowable number of wires in conduit pipe.	/	X	
SSWS-518-08	Adequate rubber and PVC tapes are provided in splicing and connections.	/	X	
SSWS-518-09	Boxes and enclosures are provided according to intended purpose.	/	X	
SSWS-518-10	Wire insulation not damaged during pulling.	/	X	
SSWS-518-11	Provision of covers for blank utility boxes.	/	X	
SSWS-518-12	Conformance to proper wirings, markings, tags and ties.	/	=X	
SSWS-518-13	Lighting fixtures are free of warps, dents, and other damages.	/	=X	
SSWS-518-14	Hanger cable supports, channels, frames and brackets are provided in the lighting fixtures (as necessary).	/	=X	
SSWS-518-15	Flood lights, perimeter lighting, structure mounted luminous are installed with appropriate supports and brackets.	/	=X	
SSWS-518-16	Outdoor lighting fixtures are provided with sealing gaskets.	/	=X	
SSWS-518-17	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:	-	Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: <u>//</u>	_	Rate = (a) / (b)	
			Rate	1
				4

PROJECT ID/N			quipment Installa SIT: <u>/</u>	<u>tion</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 519 Condu	uits and Cable Tray System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-519-01	Installed according to approved plans and specifications.	/	=X	
SSWS-519-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-519-03	Conduit ends are reamed and smoothened before jointing.	/	=X	
SSWS-519-04	Provision of plug and fillers.	/	X	
SSWS-519-05	Provision of coupling and bends.	/	=X	
SSWS-519-06	Provision of spacers, inserts and ties for conduits.	/	=X	
SSWS-519-07	Provision of stow enamel coating inside conduits.	/	=X	
SSWS-519-08	Provision of rigid metal expansion joints where required.	/	=X	
SSWS-519-09	Cable trays, accessories and fittings are smooth, free from defects and sharp edges.	/	=X	
SSWS-519-10	Trays are properly installed and supported as per plan.	/	=X	
SSWS-519-11	Provision of adequate support on vertical cable runs.	/	=X	
SSWS-519-12	Multi core cables are clamped to the racks.	/	=x	
SSWS-519-13	Conformance to required leveling and alignment of all installed materials	/	=X	
SSWS-519-14	Conformance to grounding connections.	/	=X	
SSWS-519-15	Cables are adequately supported by racks and clamps, if it is not feasible to support cables by means of tray.	/	=X	
SSWS-519-16	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	=X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date: _/_/		Rate = (a) / (b)	
			Rate	1
			<b></b>	

PROJECT ID/NVISIT	O.: PROJECT TYPE: <u>Substation</u> LOCATION:		<u>elecom System</u> PF VISIT: <u>/</u>	<u> </u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 600 Microv	wave Equipment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-600-01	Completeness of installation according to approved plans and specifications.	/	X	
SSWS-600-02	Cable trays, racks and conduit system installed according to approved plans and specifications.	/	=x	
SSWS-600-03	Link terminal; i.e transmitters and receiver installed at specified room conditions and temperature.	/	=X	
SSWS-600-04	Antenna rigidly mounted in accordance with approved plans and specifications.	/	=x	
SSWS-600-05	Conformance to specified antenna directions.	/	=X	
SSWS-600-06	Grounding rods and arresters installed and connected according to approved plans and specifications.	/	=X	
SSWS-600-07	Conducted and passed the required tests.	/	=X	
SSWS-600-08	Equipment is free from any damage.	/	X	
Minor				
SSWS-600-02	Cable trays, racks and conduit system installed according to approved plans and specifications.	/	=x	
SSWS-600-08	Equipment is free from any damage.	/	x =	
SSWS-600-09	Antenna coarse and fine adjustments provided.	/	X	
SSWS-600-10	Complied with the minimum bending radius for wave guide.	/	X	
SSWS-600-11	Order wire circuit contained in rack mounted not integrated within the other units of the radio equipment rack conformed with specified height.	/	X	
SSWS-600-12	Wave guide installed complete with mounting hardwares wall fed through, grounding straps, connectors and pressurizing equipment.	/	= X	
		/	X	
		/	=X	
		/	=X	
		/	=X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: <u>//</u>		Rate = (a) / (b)	
			Rate	1
			-	

PROJECT ID/N			om System SIT: <u>/</u> /_	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 601 Fiber	Optic Terminal Equipment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-601-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-601-02	Free from any form of damage.	/	=X	
SSWS-601-03	Clean from inside and outside.	/	=X	
SSWS-601-04	Proper identifications/markings are provided on the cable.	/	=X	
SSWS-601-05	Fiber optic cables are terminated in connectors accessible through jumper cables (pigtails).	/	=X	
SSWS-601-06	Ends of the fiber optic cable are provided with caps to prevent moisture ingress into the cables.	/	=X	
SSWS-601-07	Each end of the cables are securely fastened to the reel to prevent the cable from becoming loose during placing operations.	/	X	
SSWS-601-08	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-601-02	Free from any form of damage.	/	X	
SSWS-601-03	Clean from inside and outside.	/	=X	
SSWS-601-07	Each end of the cables are securely fastened to the reel to prevent the cable from becoming loose during placing operations.	/	X	
Item 602 Power	Line Carrier Equipment			
Major				
SSWS-602-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-602-02	Apurtenants of PLC equipment are free from damages (i.e, PLC cubicles, transmitter/reciever sets, line tuners, line traps, protection signalling equipment, etc.)	/	X	
SSWS-602-03	Conformance to the ambient temperature in which the cubicles are located.	/	=X	
SSWS-602-04	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-602-02	Apurtenants of PLC equipment are free from damages (i.e, PLC cubicles, transmitter/reciever sets, line tuners, line traps, protection signalling equipment, etc.)	/	X	
SSWS-602-05	Co-axial cables are properly laid with cable support and cable ties.	/	X	
	r used? If yes, name of company and owner:  & &		Total Score (a)  No. of Indicators (b)	CAR Total
	Date: _ / /		Rate = (a) / (b)	
			– Rate	1

PROJECT ID/NC	D.: PROJECT TYPE: <u>Substation</u> LOCATION:		<u>elecom System</u> DF VISIT: <u>/</u>	<u>/</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 603 Teleph	none Equipment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major I	Defects	
SSWS-603-01	Completeness of installation according to approved plans and specifications.	/	X	
SSWS-603-02	Circuit boards and components are sealed / treated to provide protection against moisture.	/	=x	
SSWS-603-03	Main Distribution Panel/frame is equipped with earthing accessories for connection to station ground mat.	/	=x =	
SSWS-603-04	Conducted and passed the required tests.	/	X =	
Minor				
SSWS-603-02	Circuit boards and components are sealed / treated to provide protection against moisture.	/	=x =	
SSWS-603-05	Lines are plugged-in type to the Distribution Frame. No soldering.	/	X	
		/	=X	
		/	X	
Item 604 UHF /	VHF Radio Equipment			
Major				
SSWS-604-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-604-02	UHF / VHF Radio Equipment are free from damages (i.e, base station, repeater sets, portable sets, mobile radio sets, co-axial cables, antenna system, etc.).	/	=x	
SSWS-604-03	Conducted and passed the required tests.	/	X	
Minor				
SSWS-604-02	UHF / VHF Radio Equipment are free from damages (i.e, base station, repeater sets, portable sets, mobile radio sets, co-axial cables, antenna system, etc.).	/	=x	
SSWS-604-04	Co-axial cables are laid with mounting hardwares or roof fed through to avoid sag. Provisions for grounding as required.	/	x	
SSWS-604-05	Base antenna are installed / mounted rigidly on its support structure with lightning protection.	/	x	
		/	X =	
		/	X =	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: <u>//</u>	_	Rate = (a) / (b)	
			Rate =	

PROJECT NO.: \_\_\_\_\_ PROJECT TYPE: <u>Substation</u> ITEM: <u>Telecom System</u>

VISIT	LOCATION:	DATE (	OF VISIT: <u>/</u>	<u>/</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 605 Anten	na Tower			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major I	Defects	
SSWS-605-01	Conformance to foundation requirements (i.e, correct orientation, finished elevations, embedded items).	/	X	
SSWS-605-02	Conformance to approved erection drawings.	/	X	
SSWS-605-03	Tower parts and accessories are free from damages (i.e, structural steel works, anchor materials, bolts and nuts, washers, guy, etc.).	/	X	
SSWS-605-04	Connectors of tower members are secured by bolts and nuts and washers.	/	X	
SSWS-605-05	Tower parts completely installed.	/	=X	
SSWS-605-06	Lightning rod completely installed as per plans and specifications.	/	X	
Minor				
SSWS-605-03	Tower parts and accessories are free from damages (i.e, structural steel works, anchor materials, bolts and nuts, washers, guy, etc.).	/	X	
SSWS-605-04	Connectors of tower members are secured by bolts and nuts and washers.	/	=X	
SSWS-605-07	Provision of setting templates for setting anchor bolts or stub angles for each type of tower.	/	X	
SSWS-605-08	No appearance of white rust on all galvanized members and accessories	/	X	
SSWS-605-09	Bolts, nuts and washers conformed to the required number, sizes and strength.	/	X	
SSWS-605-10	Galvanized bolts and nuts are assembled with finger fit pressure only and interchangeable without shakes.	/	X	
SSWS-605-11	Conformance to bolt positions and insertion requirements.	/	X	
SSWS-605-12	Bolts fastened with specified torque.	/	=X	
SSWS-605-13	Approved as-built drawings maintained.	/	=x	
		/	=X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
			=	
Entered by:	Date: <u>//</u>		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/N VISIT	O.: PROJECT TYPE: Substation LOCATION:		<u>elecom System</u> DF VISIT: <u>/</u>	/
	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 606 Fiber (	Optic Cable (Linking the Substation)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major I	Defects	
SSWS-606-01	Cable pulling in boxes conforms with plans and specifications.	/	=X	
SSWS-606-02	Proper backfilling and compaction prior to cable pipe laying.	/	x =	
SSWS-606-03	Trench slopes conform to plans and specifcations.	/	X =	
SSWS-606-04	Conformance to laying/pulling operation procedure.	/	X	
SSWS-606-05	Conducted and passed the required tests.	/	X	
Minor				
SSWS-606-01	Cable pulling in boxes conforms with plans and specifications.	1	X	
SSWS-606-02	Proper backfilling and compaction prior to cable pipe laying.	/	X	
SSWS-606-03	Trench slopes conform to plans and specifications.	/	X	
SSWS-606-06	Required markings are provided.	/	=x	
SSWS-606-07	Backfilling of trenches conform to plans and specifications.	/	=X	
SSWS-606-08	Equipment arrangement and accessories (i.e, pulling ropes, hooks, rollers, etc. for the pipe and cable pulling operations) conform to approved procedure	/	= X	
SSWS-606-09	Conformance to repair preparedness procedure.	/	X	
SSWS-606-10	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
			No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b)	
			Rate	

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: <u>Substation</u> ITEM: <u>Control System</u>

VISIT	LOCATION:	DATE OF	VISIT: <u>//</u>	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 700 Micro	processor Based Control System (MBSC)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
SSWS-700-01	Installation and arrangement conforms to approved plans and specifications.	/	=x	
SSWS-700-02	Installed materials are free from damages.	/	=x	
SSWS-700-03	Conducted and passed required tests (i.e., routine and quality conformance tests).	/	=x	
Minor				
SSWS-700-02	Installed materials are free from damages.	/	X	
SSWS-700-04	Power supplies system are properly arranged.	/	=x	
SSWS-700-05	Earthing terminal are provided for grounding connection.	/	=x	
SSWS-700-06	Cabling layout conforms to plan.	/	=X	
SSWS-700-07	Provision of raceways for wiring connection of MBSC to various equipment.	/	=x	
SSWS-700-08	Approved as-built drawings maintained.	/	X	
Item 701 Closed	d Circuit Television System			
Major				
SSWS-701-01	Installed according to approved plans complete with required furnitures.	/	X	
SSWS-701-02	Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans.	/	X	
SSWS-701-03	Cabling layout conforms to plan.	/	=x	
SSWS-701-04	Conducted and passed required tests.	/	=x	
Minor				
SSWS-701-05	Provision for equipment grounding to ground mat.	/	=X	
SSWS-701-06	Wirings/video cable passed through approved and properly supported raceways.	/	=x	
SSWS-701-07	Approved as-built drawings maintained.	/	=x	
	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date:/_/	-	= Rate = (a) / (b)	
			Rate	1
				_

PROJECT ID/NO VISIT	PROJECT TYPE: Substation LOCATION:		<u>/S Control</u> = VISIT: <u>/</u> /_	
	LOCATION.	DATE OF	- VISIT. <u>//</u>	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			•
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 702 Access	s Control and Alarm Monitoring System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	fects	
SSWS-702-01	Installed according to approved equipment arrangement and layout.	/	=x	
SSWS-702-02	Cable layout conforms to plans.	/	=x	
SSWS-702-03	Conducted and passed the required tests.	/	X	
Minor				
SSWS-702-02	Cable layout conforms to plans.	/	X	
SSWS-702-04	Accessories for signal transmission are properly installed (i.e., mounting hardwares, connectors, etc.).	/	=X	
SSWS-702-05	Installation of field wirings in conduit is in accordance with applicable codes and standards.	/	x	
SSWS-702-06	Conformance to required sizes of conduits and conductors in the drawings.	/	=x	
SSWS-702-07	Provision for grounding connection to ground mat.	/	=X	
SSWS-702-08	Approved as-built drawings maintained.	/	=X	
		/	=x x	
		/	=	
		/	=x =x	
		/	=^_ =X	
		/	=	
	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: <u>//</u>	-	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO			rotection System	<u>l</u>
VISIT	LOCATION:	DATE OF VISIT: / /		
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 800 Line P	rotection System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-800-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-800-02	Installed materials are free from any form of damage.	/	=x	
SSWS-800-03	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-800-02	Installed materials are free from any form of damage.	/	=X	
SSWS-800-04	Relay panels are complete with grounding connections.	/	=X	
SSWS-800-05	Conformance of control and power cable entrance openings to plans and specs.	/	=X	
SSWS-800-06	Approved as-built drawings maintained.	/	X	
		/	=x	
Item 801 Substa	ntion Protection			
Major				
SSWS-801-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-801-02	Conformance of control and power cable entrance openings to plans and specs.	/	X	
SSWS-801-03	Cables entering the relay cubicle are properly installed and placed.	/	=x	
SSWS-801-04	Grounding terminal pads are provided for connection to ground mat.	/	=x	
SSWS-801-05	Conducted and passed the required tests.	/	=X	
SSWS-801-06	Installed materials are free from any form of damage.	/	=X	
Minor				
SSWS-801-06	Installed materials are free from any form of damage.	/	=X	
SSWS-801-07	Wirings are properly identified with markings.	/	=X	
SSWS-801-08	Cable rack hooks and supports are provided.	/	=X	
SSWS-801-09	Approved as-built drawings maintained.	/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	& Date://_		Rate = (a) / (b)	
			= Rate	
			=	

PROJECT ID/NO			rotection System		
VISIT	LOCATION:	DATE O	DATE OF VISIT: / /		
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50				
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor	
Item 802 Netwo	ork Disturbance Monitoring System				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects		
SSWS-802-01	Completeness of installation according to approved plans and specifications.	/	x		
SSWS-802-02	Conducted and passed the required tests.	/	x =		
SSWS-802-03	Installed materials are free from any form of damage.	/	X		
Minor					
SSWS-802-03	Installed materials are free from any form of damage.	/	=X		
SSWS-802-04	Approved as-built drawings maintained.	/	x =		
		/	x		
		/	x		
Item 803 Protec	ction Signalling Equipment				
Major					
SSWS-803-01	Completeness of installation according to approved plans and specifications.	/	x		
SSWS-803-02	Parts are free from damages.	/	x		
SSWS-803-03	Conducted and passed functional and other required tests.	/	x		
Minor					
SSWS-803-02	Parts are free from damages.	/	X =		
SSWS-803-04	Provision of terminal pad for grounding connections.	/	x =		
SSWS-803-05	Conformance to proper arrangements of terminal blocks inside the panel.	/	x		
SSWS-803-06	Approved as-built drawings maintained.	/	x		
		/	x		
		/	x		
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total	
	&		No. of Indicators (b)		
Entered by:	Date: <u>//</u>		Rate = (a) / (b)		
			Rate	1	
			=		

PROJECT ID/NC			otection System	
VISIT	LOCATION: DATE	= OF VISI	T: <u>/ /</u>	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS		1	
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 900 Fire P	umping System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-900-01	Installed pumps, accessories and appurtenances conformed to the required capacity and approved plans and specifications.	/	X	
SSWS-900-02	Piping connections sufficiently braced/supported and free from leaks.	/	X	
SSWS-900-03	Installed system free from any form of damage.	/	X	
SSWS-900-04	Conducted and passed the required tests.	/	X =	
Minor				
SSWS-900-02	Piping connections sufficiently braced/supported and free from leaks.	/	=X =	
SSWS-900-03	Installed system free from any form of damage.	/	=X	
SSWS-900-05	Conformance to foundation, anchorage, housing/casing requirements.	/	X =	
SSWS-900-06	Conformance to pipings and control panel technical specifications.	/	=X	
SSWS-900-07	Conformance to alignment, balancing and vibration limitations.	/	X	
SSWS-900-08	Approved as-built drawings maintained.	/	x	
Item 901 Fire Pi	rotection Piping System			
Major				
SSWS-901-01	Installed pipes conform to plans, e.g. slope, alignment, location, bracings, supports.	/	=x	
SSWS-901-02	Pipes not clogged.	/	=x	
SSWS-901-03	Installed materials are free from any form of damage.	/	=X	
SSWS-901-04	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-901-03	Installed materials are free from any form of damage.	/	X =	
SSWS-901-05	Installed fixtures and accessories conform to plans, e.g. height, alignment, location.	/	=x	
SSWS-901-06	Approved as-built drawings maintained.	/	X	
	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	& Date:/_/_		Rate = (a) / (b)	
Littorou by			=	
			Rate	

PROJECT ID/NO	.: PROJECT TYPE: Substation IT	EM: Fire Pr	otection System	
VISIT	LOCATION: DA	ATE OF VISI	Γ: <u>/</u>	
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the res the indicators in the said spot. Further, if the number of complying spot less than fifty percent (50%) of the total number of spots, the rating for a specific item of work is zero (0).	s is Results	Score x factor	Action / Monitor
	or Hydrant / 903 Hydrant for Transformer Area / 904 ktinguisher / 905 Portable Foam Equipment with Foam			
SSWS-9001	Conformance to the design specifications, drawings and applicable codes.	/	x	
SSWS-9002	Conducted and passed the required tests.	/	x	
		/	x	
		/	X	
		/	x	
	ormer Deluge Water Sprinkler System			
Major				
SSWS-906-01	Completeness of installation according to approved plans and specifications.	/	X	
SSWS-906-02	Conducted and passed the required tests.	/	X	
SSWS-906-03	Installed materials are free from any form of damage.	/	=X	
Minor				
SSWS-906-03	Installed materials are free from any form of damage.	/	X	
SSWS-906-04	Installed complete with appurtenances and its control, e.g. fixed piping and supports, spray nozzles, deluge valve system, detection and signaling equipment.	/	x	
SSWS-906-05	Provision of strainers in the supply lines of fixed water pipe spray system.	/	x	
SSWS-906-06	Detection equipment requiring weather protection are provided with canopy, hood or other suitable features.	/	x	
SSWS-906-07	System pipings are adequately supported.	/	X	
SSWS-906-08	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
		/	X	
	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date:/		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: <u>Substation</u> ITEM: <u>Fire Protection System</u>

VISIT	LOCATION: DAT	E OF VIS	SIT: <u>//</u>	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
	Gas Flooding Fire Suppression System (For Control			
Room, Relay Ro Major	oom, and Auxillary Room)			
	Conformance to the design specifications, drawings	,	Х	
SSWS-907-01	and applicable codes.	/	=	
SSWS-907-02	Conducted and passed the required tests.	/	X	
		/	X	
		/	x	
Item 908 Fire De	etection and Alarm System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-908-01	Installed according to approved plans and specifications.	/	X	
SSWS-908-02	Wirings are in accordance with the requirements of the applicable codes.	/	X =	
SSWS-908-03	No T-wiring or pigtail connections.	/	=X	
SSWS-908-04	Conducted and passed the required tests.	/	X =	
SSWS-908-05	Installed materials are free from any form of damage.	/	x =	
Minor				
SSWS-908-05	Installed materials are free from any form of damage.	/	X	
SSWS-908-06	Wirings are color coded in conduit or electrical metallic tubing.	/	X =	
SSWS-908-07	Circuit conductors are identified within each enclosure where a tap, splice or termination is made.	/	=X	
SSWS-908-08	Markers properly in-placed.	/	=X	
SSWS-908-09	Control circuit terminations are properly identified.	/	=X	
SSWS-908-10	Terminals requiring grounding connectors are properly connected to grounding system.	/	X =	
SSWS-908-11	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	
			a	

# ANNEX 2-H

## **CHECKLIST FOR DIESEL POWER PLANT**

Site Development		
Item 100	Boundary Establishment	2H-1
Item 101	Clearing and Grabbing	2H-1
Item 102	Removal of Structure and Obstruction	2H-1
Item 103	Grading Excavation	2H-1
Item 104	Structure Excavation	2H-1
Item 105	Embankment	2H-2
Item 106	Subgrade Preparation	2H-2
Item 107	Grading Fill	2H-3
Item 108	Selected Fill/Engineered fill	2H-3
Item 109	Aggregate Sub-base Course/Aggregate Base Course	2H-4
Item 110	Portland Cement Concrete Pavement	2H-5
Item 111	Pipe Culvert and Storm Drains	2H-6
Item 112	Manholes, Inlets, and Catch Basins	2H-6
Item 113	Riprap and Grouted Riprap	2H-7
Item 114	Gabion /Mattresses	2H-7
Item 115	Topsoil	2H-8
Item 116	Sprigging/Sodding	2H-8
Item 117	Ornament Plant/Tree Planting	2H-8
Item 118	Perimeter/Seclusion Fence	2H-9
Item 119	Gate / Guardhouse	2H-10
Item 120	Outdoor, Roadway and Perimeter Lighting System	2H-10
Item 121	Deepwell Drilling and Development	2H-10
Item 122	Deepwell Submersible Pump	2H-11
Item 123	Elevated Steel Water Tank	2H-11
Item 124	Domestic Water Supply Piping System	2H-12
Item 125	Gravel Surfacing	2H-12
Item 126	Concrete Drainage Canal	2H-13
Item 127	Oil-Water Separator	2H-13
Item 128	Rockwall/Retaining Wall	2H-13
Powerhouse Buildin	ια	
Item 200	Fill and Selected Fill	2H-14
Item 201	Soil Poisoning	2H-14
Item 202	CHB Wall	2H-14
Item 203	Brick Wall	2H-15
Item 204	Tiled Finish	2H-15
Item 205	Trowelled Floor Finish	2H-15
Item 206	Pebble Wash-Out	2H-16
Item 207	Waterproofing	2H-16
Item 208	Wall Paper	2H-16
Item 209	Wall Plaster Finish	2H-16
Item 210	Wall Cladding	2H-17
Item 211	Wall/Roof Painting	2H-17
Item 212	Ceiling Suspension	2H-17
Item 213	Ceiling Board	2H-18
Item 214	Ceiling Moulding	2H-18
Item 215	Roofing Frames	2H-18
Item 216	Roofing Sheets	2H-18
Item 217	Doors	2H-19
Item 218	Windows	2H-19
Item 219	Railings	2H-19
Item 220	Plumbing	2H- 20
Item 221	Sanitary	2H- 20
Item 222	Structural Steel Works	2H- 2′
Item 223	Electrical Works	2H- 22
Item 224	Air Conditioning System	2H- 23

Item 225	Ventilation System	2H- 23
Item 226	Septic Vaults	2H- 23
Equipment Founda	tions	
Item 300	Fill / Sand and Gravel Bedding	2H-24
Item 301	Lean Concrete	2H-24
Item 302	Anchor Bolt Setting	2H-24
Item 303	Epoxy and Non-Cementitous Grouting	2H-24
Item 304	Cable Trench Cover and Supports	2H-25
Item 305	Gravel Surfacing	2H-25
Common Items of \	Marke	
Item 400	Excavation	2H-26
Item 401	Backfill	2H-26
Item 402	Formworks	2H-26
Item 403		2H-27
item 403	Reinforcing Steel Bars (including tendons for Pre/Post-Stressed Concrete)	2⊓-21
	,	
Item 404	Concrete	2H-28
Equipment Installa	tion	
Item 500	Diesel Generator Set and its Appurtenances	2H-29
Item 501	Fuel Oil System	2H-29
Item 502	Cooling System	2H-30
Item 503	Cooling Water Supply System	2H-30
Item 504	Lubrication Oil System	2H-31
Item 505	Compressed Air System	2H-31
Item 506	Exhaust System	2H-32
Item 507	Domestic Water Supply System	2H-32
Item 508	Power Transformer	2H-33
Item 509	Power Circuit Breaker	2H-34
Item 510	Station Service Transformer	2H-34
Item 511	Kilowatt Hour Billing Meter	2H-35
Item 512	Current Transformer	2H-35
Item 513	Potential/Voltage Transformer	2H-35
Item 514	Metal Clad Switch Gear	2H-36
Item 515	Disconnect/Earthing Switch	2H-36
Item 516	Power/Control and Protection Panel	2H-37
Item 517	Surge/Lightning Arrester	2H-37
Item 518	Uninterruptible Power Supply	2H-38
Item 519	Storage Battery	2H-38
Item 520	Battery Charger	2H-39
Item 521	Grounding System	2H-40
Item 522	Bus Conductors and Hardwares	2H-41
Item 523	Gantries, Steel Structures and Supports	2H-41
Item 524	Power/Control/ Instrumentation Cables	2H-42
Item 525	Conduits and Cable Tray System	2H-43

PROJECT ID/NO	.: PROJECT TYPE: <b>DIESEL POWER PLANT</b>	ITEM: §	Site Developme	<u>ent</u>
VISIT	LOCATION:	DATE O	F VISIT://	_
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 100 Boun	dary Establishment			
DPWS-100-01	Boundary of site/area for development accurately established.	/	x	
101 Clearing a	nd Grubbing			
DPWS-10101	Proper removal of undisputed stumps roots and non- perishable solid objects/structures, vegetation, debris, trees and other obstruction.		x	
DPWS-101-02	Conformance to proper disposal.	/	X	
102 Removal o	of Structure and Obstruction			
DPWS-102-01	Proper removal of undisputed stumps roots and non- perishable solid objects/structures, vegetation, debris, trees and other obstruction.		x	
DPWS-102-02	Conformance to proper disposal.	/	x =	
Item 103 Grad	ing Excavation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	or Defects		
DPWS-103-01	Adherence to proper construction methodology.	/	X	
DPWS-103-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
Minor	,			
DPWS-103-03	Conformance to proper disposal.	/	X	
104 Structure	Excavation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	or Defects		
DPWS-104-01	Adherence to proper construction methodology.			
DPWS-104-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
Minor				
DPWS-104-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	x =	
DPWS-104-03	Conformance to proper disposal.	/	X =	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO	.: PROJECT TYPE: <b>DIESEL POWER PLANT</b>	ITEM:	Site Develop	ment
VISIT	LOCATION:	DATE (	OF VISIT:/_	/
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 105 Emba	nkment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	Defects		
DPWS-105-01	Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 106 not undertaken).	/	X	
DPWS-105-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
DPWS-105-03	Adherence to compaction procedure and the required equipment (if no longer correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid)	/	x =	
Minor	compaction and citiconoding layer was laid			
DPWS-105-01	Adherence to proper construction methodology.	/	X	
DPWS-105-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X	
DPWS-105-03	Adherence to compaction procedure and the required equipment(correctible).	/	X	
106 Subgrade	Preparation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	Defects		
DPWS-106-01	Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 105 not undertaken).	/	X	
DPWS-106-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
DPWS-106-03	Adherence to compaction procedure and the required equipment (if no longer correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid).	/	X	
Minor				
DPWS-106-01	Adherence to proper construction methodology.			
DPWS-106-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X =	
DPWS-106-03	Adherence to compaction procedure and the required equipment(correctible).	/	x =	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b	p)
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
				•

PROJECT ID/NO	D.: PROJECT TYPE: <b>DIESEL POWER PLANT</b>	ITEM:	Site Develop	<u>ment</u>
VISIT	LOCATION:	DATE (	OF VISIT:/	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 107 Grad	ling Fill			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	Defects		
DPWS-107-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-107-02	Conformance to the required density or degree of compaction.	/	x	
Minor				
DPWS-107-03	Conformance to the proper placement and to the required thickness per layer of fill/backfill	/	X	
DPWS-107-04	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X	
DPWS-107-05	Adherence to compaction procedure and the required equipment(correctible).	/	x	
Item 108 Sele	cted Fill/ Engineered Fill			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	Defects		
DPWS-108-01	Conformance of in-placed materials to plans and specifications.	/	x	
DPWS-108-02	Conformance to the required density or degree of compaction.	/	X	
Minor				
DPWS-108-03	Adherence to proper construction methodology	/	X =	
DPWS-108-04	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X	
DPWS-108-05	Adherence to compaction procedure and the required equipment(correctible).	/	x =	
		/	x	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (	b)
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	
			I .	1

	PROJECT ID/NO	.: PROJECT TYPE: <b>DIESEL POWER PLA</b> I	NT	ITEM:Site Devel	opment
Sub-item   Note: Spots with a single amptic object shall be considered and points for the rest of the indicators in the said spape, further, if the number of compying spots is less than fithly percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).    Item 109 Aggregate Sub-Base Course / Aggregate Base Course   Action / Monitor item of work is zero (0).    Item 109 Aggregate Sub-Base Course / Aggregate Base Course   Action / Monitor item of work is zero (0).    Item 109 Aggregate Sub-Base Course / Aggregate Base Course   Action / Monitor item of work is zero (0).    Item 109 Aggregate Sub-Base Course / Aggregate Base Course   Action / Monitor item of work is zero (0).    Item 109 Aggregate Sub-Base Course / Aggregate Base Course   Action / Monitor item of work is zero (0).    Item 109 Aggregate Sub-Base Course / Aggregate Base Course   Action / Monitor   Action / Moni	VISIT	LOCATION:		DATE OF VISIT	: <u>/ /</u>
Sub-item Code  New Spots with a single major defect shall forfiel all points for the rest of the indicators in the said spot. Fruther, if the number of complying spots is less than fifty percent (20%) of the lotal number of spots, the rating for that specific item of work is zero (0).  Item 109 Aggregate Sub-Base Course / Aggregate Base Course  Major*  Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects  DPWS-109-01  DPWS-109-02  DPWS-109-02  DPWS-109-03  DPWS-109-04  Conformance of in-placed materials according to plans and specifications.  DPWS-109-04  Conformance w/ approved/specified lines, grades, cross-section, thickness, elevation as per plans and specifications.  DPWS-109-04  Conformance to the required compaction.  DPWS-109-05  Adherence to proper construction methodology. (correctible)  DPWS-109-06  Conformance w/ approved/specified tolerances on lines, grades, cross-section, thickness, elevation, & plans, and proved/specified tolerances on lines. (correctible) dimensions  DPWS-109-04  Conformance to the required compaction.  DPWS-109-05  Sub-base/Base extended to shoulders.  DPWS-109-06  Non-occurrence of subbase settlement/upheaval.  DPWS-109-07  Provision of required stakes.  Feature of the compaction of the compaction of required stakes.  DPWS-109-07  Provision of required stakes.  DPWS-109-07  DPWS-109-07  DPWS-109-07  DPWS-109-08  DPWS-109-09  Conformance to the required compaction.  Conformance to the required compaction.  Conformance to the required compaction.  Conformance to the required t	Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Major'  *Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects  DPWS-109-01  DPWS-109-02  Conformance of in-placed materials according to plans and yespecifications.  Adherence to proper construction methodology. (if no longer correctible, e.g., layer)  DPWS-109-03  Conformance w/ approved/specified lines, grades, cross-section, thickness, elevation as per plans and specifications.  DPWS-109-04  Conformance to the required compaction.  Minor  DPWS-109-05  Conformance of in-placed materialsaccording to plans and specifications.  DPWS-109-00  Adherence to proper construction methodology. (correctible)  DPWS-109-03  grades, cross-section, thickness, elevation, & plans. (correctible) dimensions.  DPWS-109-04  Conformance to the required compaction.  DPWS-109-05  Sub-base/Base extended to shoulders.  DPWS-109-06  Non-occurrence of subbase settlement/upheaval.  DPWS-109-07  Provision of required stakes.  /		*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific	Results		
DPWS-109-01  DPWS-109-02  DPWS-109-02  DPWS-109-03  Adherence to proper construction methodology. (if no longer correctible, e.g., layer)  DPWS-109-04  Conformance w/ approved/specified lines, grades, cross-section, thickness, elevation as per plans and specifications.  DPWS-109-04  Conformance to the required compaction.  Minor  DPWS-109-01  Conformance of in-placed materialsaccording to plans and specifications.  DPWS-109-02  Adherence to proper construction methodology. (correctible)  DPWS-109-03  grades, cross-section, thickness, elevation, & plans. (correctible)  DPWS-109-04  Conformance w/ approved/specified tolerances on lines, grades, cross-section, thickness, elevation, & plans. (correctible) dimensions.  DPWS-109-05  Sub-base/Base extended to shoulders.  DPWS-109-06  Non-occurrence of subbase settlement/upheaval.  DPWS-109-07  Provision of required stakes.  /	Item 109 Aggr	egate Sub-Base Course / Aggregate Base Course			
Specifications.   Specificat	Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
DPWS-109-03   Conformance w/ approved/specified lines, grades, cross-section, thickness, elevation as per plans and specifications.	DPWS-109-01	specifications.	/	x	
DPWS-109-04   Conformance to the required compaction.	DPWS-109-02	correctible, e.g., layer)	/	X	
DPWS-109-01   Conformance to the required compaction.	DPWS-109-03		/	=	
DPWS-109-01         Conformance of in-placed materials according to plans and specifications.         / =x	DPWS-109-04	Conformance to the required compaction.	/	X =	
DPWS-109-02   Adherence to proper construction methodology. (correctible)   /	Minor				
DPWS-109-02   Adherence to proper construction methodology. (correctible)	DPWS-109-01	• · · · · · · · · · · · · · · · · · · ·	/	x =	
DPWS-109-03 grades, cross-section, thickness, elevation, & plans. (correctible) dimensions  DPWS-109-04 Conformance to the required compaction.  DPWS-109-05 Sub-base/Base extended to shoulders.  DPWS-109-06 Non-occurrence of subbase settlement/upheaval.  DPWS-109-07 Provision of required stakes.	DPWS-109-02		/	x =	
DPWS-109-05 Sub-base/Base extended to shoulders.  DPWS-109-06 Non-occurrence of subbase settlement/upheaval.  DPWS-109-07 Provision of required stakes.	DPWS-109-03	grades, cross-section, thickness, elevation, & plans.	/	x =	
DPWS-109-06   Non-occurrence of subbase settlement/upheaval.	DPWS-109-04	Conformance to the required compaction.	/	X =	
DPWS-109-06   Non-occurrence of subbase settlement/upheaval.	DPWS-109-05	Sub-base/Base extended to shoulders.	/	X =	
DPWS-109-07 Provision of required stakes.	DPWS-109-06	Non-occurrence of subbase settlement/upheaval.	/	X =	
	DPWS-109-07	Provision of required stakes.	/	X =	
			/	x =	
=x			/	x	
=x				=	
=			/	X =	
Was subcontractor used? If yes, name of company and owner:  &   Total Score (a)			/	X	
Was subcontractor used? If yes, name of company and owner:  &   Buttered by: Date: _ / /   Rate = (a) / (b)     Rate = (a) / (b)			/	X	
Entered by: Date:/ / _ = Rate = (a) / (b) =				Total Score (a)	CAR Total
=		&		No. of Indicators (b) =	
Rate =	Entered by:	Date: _ / /_	_	Rate = (a) / (b)	
				Rate	

PROJECT ID/NO	PROJECT TYPE: <b>DIESEL POWER PLANT</b> LOCATION:		ITEM: Site Development DATE OF VISIT:	lopment / /
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 110 Portland Cement Concrete Pavement				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major	Defects		
DPWS-110-01	No longitudinal cracks.	/	X	
DPWS-110-02	Conformance to vibration requirement.	/	X	
DPWS-110-03	Conformance to quality of concrete mix.	/	=x	
DPWS-110-04	Conformance to requirements of construction joints (outside middle thirds).	/	X	
DPWS-110-05	No through cracks (all types of cracks).	/	X	
DPWS-110-06	No scaling (severe, needs Removal and Replacement).	/	X	
DPWS-110-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section. (>10% deficient)	/	X	
Minor				
DPWS-110-05	No cracks e.g. transverse, diagonal, temperature, corner, restraint.	/	X	
DPWS-110-06	No scaling.	/	X	
DPWS-110-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (<10% deficient).	/	X	
DPWS-110-08	No honeycomb.	/	X	
DPWS-110-09	No spalling.	/	X	
DPWS-110-10	No chipped-off edges.	/	X	
DPWS-110-11	Conformance to required size, location & spacing of tie bars and dowel bars as per specifications.	/		
DPWS-110-12	Conformance to proper curing procedures.	/	X	
DPWS-110-13	Utilization of templates prior to pouring.	/	x	
DPWS-110-14	Conformance to placing requirement which will not result to segregation of aggregates, cold joints, misalignment.	/	X	
DPWS-110-15	Conformance to required amount of asphalt sealant on weakened plane joints. (insufficient and excessive application)	/	X	
DPWS-110-16	Conformance to requirement of pavement blockings (include depths and widths of weakened plane joints)	/	X	
DPWS-110-17	No hardened/spilled concrete on pavement.	/	X	
DPWS-110-18	No pokemarks/tire marks/animal foot marks/skid marks, etc.	/	X	
DPWS-110-19	Conformance to proper finishing of concrete (brooming)	/	X	
DPWS-110-20	Conformance to formwork requirements (wooden, defective steel and not applied with oil/grease)	/	X	
Was subcontractor(s) used? If yes, name of company(ies) and sub-item:			Total Score (a)	CAR Total
	&		No. of Indicators (b)	
			Rate	

PROJECT ID/NC	D.: PROJECT TYPE: <b>DIESEL POWER PLA</b> LOCATION:	ANT	ITEM: Site Dev DATE OF VISIT:	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 111 Pipe	Culvert and Storm Drains			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De		
DPWS-111-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions.	/	X	
Minor				
DPWS-111-02	No cracks, honeycombs, chipping of edges.	/	=X	
DPWS-111-03	Compliance to joint mortar mixing proportions.	/	=X	
DPWS-111-04	Sufficient collaring and flushing.	/	X	
DPWS-111-05	Compliance to the required thickness, compaction & materials requirement of gravel bedding.	/	X	
DPWS-111-06	Compliance to the required thickness & compaction of backfill.	/	X	
DPWS-111-07	Conformance to trenching requirements.	/	=x	
DPWS-111-08	Free from debris, siltation, etc.	/	X	
		/	X	
Item 112 Manho	les, Inlets, and Catch Basins			
Major				
DPWS-112-01	Conformance to connection requirements between pipes & inlet wall.	/	X	
DPWS-112-02	Conformance with plans and design specifications.	/	X	
Minor				
DPWS-112-03	No damage on manhole, inlets & catch basins.	/		
DPWS-112-04	No cracks.	/	X	
DPWS-112-05	No honeycomb.	/	X	
DPWS-112-06	Free from debris, siltation, etc.	/	X =	
		/	X	
Was subcontractor	r(s) used? If yes, name of company(ies) and sub-item:		Total Score (a)  No. of Indicators (b)	CAR Total
Fatana 21			=	
Entered by:	Date: _ / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.: PROJECT TYPE: **DIESEL POWER PLANT** ITEM:**Site Development** 

VISIT	LOCATION:		DATE OF VISIT	: / /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 113 Ripra	ap and Grouted Riprap			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Det	fects	
DPWS-113-01	No through cracks	/	X	
DPWS-113-02	Conformance to specifications (size, type, weight, etc. of boulders).	/	X	
DPWS-113-03	Sufficient grout/mortar.	/	x	
DPWS-113-04	Observance to proper placing of stones/boulders.	/	X	
DPWS-113-05	Conformance to the approved/required tolerance for slope and thickness.	/	X	
DPWS-113-06	Compliance to the specified compaction and preparation of bedding.	/	X	
DPWS-113-07	Compliance to design mix of mortar.	/	X	
DPWS-113-08	Provision of weepholes.	/	X	
Minor				
DPWS-113-01	No cracks.	/	X	
DPWS-113-08	Adequate and proper spacing of weepholes.	/	X	
		/	X	
Item 114 Gabior	n/Mattresses			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Det	fects	
DPWS-114-01	Conformance to the required/approved tolerances for lines, grades, dimensions and arrangements as shown on the plans and designated locations	/	x	
DPWS-114-02	Observance to proper placing of stones/boulders.	/	X	
DPWS-114-03	Conformance to specifications (size, type, weight, etc. of boulders, rocks).	/	X	
Minor				
DPWS-114-04	No misalignment, bulging	/	X	
DPWS-114-05	Conformance to the required wire mesh cage fabrication requirement	/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NC	D.: PROJECT TYPE: <b>DIESEL POWER PLA</b> LOCATION:	ITEM: Site Development DATE OF VISIT: / /		
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 115 Tops	oil			
DPWS-115-01	Conformance to the scope of work.	/	X	
DPWS-115-02	Properly tilled.	/	=X	
DPWS-115-03	Free from weeds or undesirable grasses.	/	=X	
		/	=	
Item 116 Sprig	ging / Sodding			
DPWS-116-01	Conformance to the scope of work.	/	=X	
DPWS-116-02	Healthy, dense and well rooted.	/	X	
DPWS-116-03	Free from weeds or undesirable grasses.	/	X	
		/	=x	
Item 117 Orna	ament Plant/Tree Planting			
DPWS-117-01	Conformance to the scope of work.	/	X	
DPWS-117-02	Healthy, dense and well rooted.	/	X	
DPWS-117-03	Free from weeds or undesirable grasses.	1	=X	
		/	x	
		/	=X	
		/	=X	
		/	=X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date:/_/	_	Rate = (a) / (b)	
			= Poto	
			Rate =	

PROJECT ID/NOVISIT	.: PROJECT TYPE: <b>DIESEL POWER PLA</b> LOCATION:	NT	ITEM: <u>Site Deve</u> DATE OF VISIT:	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 118 Perim	neter /Seclusion Fence			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of		fects	
DPWS-118-01	Conformance to the approved/specified tolerance for alignment, dimension, plumbness and elevation.	/	X	
DPWS-118-02	Conformance to required quality of CHB	/	X =	
DPWS-118-03	Conformance to required quality of mortar mix	/	x	
Minor				
DPWS-118-04	Proper spacing of horizontal and vertical bars.	/	X	
DPWS-118-05	Rebars used free from corrosion.	/	X	
DPWS-118-06	Installed according to plans and specifications.	/	X	
DPWS-118-07	Conformance to the specified/designed depth of fence footings.	/	X	
DPWS-118-08	Conformance to the specified/designed length of fence per bay.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	x	
		/		
		/	x	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date:/_/	_	Rate = (a) / (b)	
			Rate	
			l	

PROJECT ID/NO	O.: PROJECT TYPE: <b>DIESEL POWER PLANT</b>		ITEM: Site Development	
VISIT	LOCATION:		DATE OF VISIT:	/ /
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 119 Gate/	/GuardHouse			
DPWS-119-01	Conformance to the approved/specified tolerance for alignment, dimension, and plumbness	/	X	
DPWS-119-02	Installed according to plans and specifications.	/	X	
Item 120 Outd	oor, Roadway and Perimeter Lighting System			
DPWS-120-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-120-02	Provision of waterproofed structure implement for outdoor illumination.	/	X	
DPWS-120-03	Conformance to the required dimension of lighting poles (height, diameter)	/	x	
DPWS-120-04	Proper installation of lighting poles and fixtures (bulbs, switches, wires, cables, load break switch, power fuse, lightning arrester).	/	=x	
DPWS-120-05	Proper installation of electrical wiring resulting to non-peeling-off of insulation.	/	X	
DPWS-120-06	Proper installation of conduit pipes.	/	x	
DPWS-120-07	Provision of concrete encasement for pipes and conduits.	/	X	
		/	x	
Item 121 Deep	well Drilling and Development			
Major				
DPWS-121-01	Drilled and developed according to plans and specifications.	/	=x	
DPWS-121-02	Complied and passed draw down tests.	/		
DPWS-121-03	Water quality complied and passed test requirements.	/	X	
Minor				
DPWS-121-04	Drilling method suited to condition of deep well site to be drilled.	/	=X	
DPWS-121-05	Method of placing the formation stabilizer/gravel pack in the annulus are done in such a way that separation of gravel and bridging are avoided.	/	=x	
DPWS-121-06	Well is cleaned in accordance with the specified method.	1	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO	OJECT ID/NO.: PROJECT TYPE: <b>DIESEL POWER PLANT</b> LOCATION:		ITEM: Site Development DATE OF VISIT: / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 122 Deep	well Submersible Pump			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
DPWS-122-01	Complied and passed required test.	/	x	
		/	X	
Minor				
DPWS-122-02	Installed according to plans and specifications complete with controls and accessories.	/	X	
DPWS-122-03	Provision of steel guard on power cable along the well casing.	/	x	
DPWS-122-04	Pump is operated in conjunction with the level controller installed at the water tank.	/	X	
DPWS-122-05	Provision of uPVC conduits for underground power cables.	/	x	
		/	x	
		/	X	
Item 123 Eleva	ated Steel Water Tank			
Major				
DPWS-123-01	Tank parts and support structure are installed in accordance with plans and specifications.	/	X	
DPWS-123-02	Complied and passed required leak tests.	/	X	
DPWS-123-03	Free from corrosion and any form of damages.	/	X	
		/	x	
Minor				
DPWS-123-03	Free from rust and any form of damages.	/	X	
DPWS-123-04	Installed according to plan complete with control and accessories (i.e., balcony with handrail, access caged ladder, air vent, water level indicator, overflow pipe, inlet-outlet piping, drain valves and fittings, level switch attachment, access hatch, beacon red warning light).	/	x	
DPWS-123-05	Structural members free of twist, bends and deformations.	/	X	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _ / /		Rate = (a) / (b)	
			Rate =	

PROJECT ID/NOVISIT	.: PROJECT TYPE: <b>DIESEL POWER PLA</b> LOCATION:	NT	ITEM: Site Deve	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 124 Dome	estic Water Supply Piping System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
DPWS-124-01	Installed pipes, fittings and valves conformed to plans and specifications.	/	X	
DPWS-124-02	Water line laid not less than 1.0 meter from sewer lines.	/	X	
DPWS-124-03	Complied and passed hydraulic and leak tests.	/	X	
Minor				
DPWS-124-04	Pipes laid free from dirt or other foreign materials.	/	x	
DPWS-124-05	Provision of pipe sleeves for pipes crossing roadways.	/	X	
DPWS-124-06	Provision of temporary pipe blind flange/caps at both ends during installation.	/	X	
DPWS-124-07	Potable water lines are disinfected prior to use.	/	X	
		/	X	
Item 125 Grave	_			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	fects	
DPWS-125-01	Complied to the required thickness of gravel surfacing as indicated in the drawings and specifications.	/	X	
DPWS-125-02	Complied to the appropriate placement workmanship in placing, spreading, compacting of gravel as specified in the drawings or specifications		x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date:/_/	_	Rate = (a) / (b) =	
			Rate =	
			B	

PROJECT ID/NOVISIT	D.: PROJECT TYPE: <b>DIESEL POWER PL</b> A	ANT	ITEM: <u>Site Deve</u> DATE OF VISIT	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 126 Concre	ete Drainage Canals			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-126-01	Adherence to proper construction methodology.	/	X	
DPWS-126-02	Conformance with approved/specified tolerances for lines, grades, cross-sections, elevations & dimensions as specified in the drawings and specifications.	/	x =	
DPWS-126-03	Non-displacement of in-placed concrete canal linings	/	x	
Minor				
DPWS-126-04	Conformance to the location of construction joints as shown in the drawing or indicated in the specifications	/	X	
DPWS-126-05	Conformance to the jointing requirements.	/	X	
		/	X	
Item 127 Oil-W	/ater Separator			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-127-01	Adherence to proper construction methodology.	/	X	
DPWS-127-02	Conformance with approved/specified cross-sections, elevations & dimensions as indicated in the drawings and specifications.	/	x	
DPWS-127-03	Adherence to proper connection of the outlet pipe to main sewer system	/	x	
DPWS-127-04	Compliance to the environmental requirement	/	=x	
		/	=x	
Item 128 Rocl	kwall/Retaining Wall			
DPWS-128-01	Conformance with approved/required tolerances for slopes, thickness, alignment, elevations and dimensions as indicated in the drawings and specifications.	/	x	
DPWS-128-02	Conformance to the required size, type, weight and quality of rock and boulder materials to be used as indicated in plans and specifications.	/	x	
DPWS-128-03	Observance to the proper placing and laying of stones and boulders.	/	X	
DPWS-128-04	Conformance with the provision of weepholes and the required spacing.	/	x	
DPWS-128-05	Compliance to the design mix of mortar and the sufficiency of grout.	/	=x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:		-	=	
Linered by	Date:/_/	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO	.: PROJECT TYPE: <b>DIESEL POWER PLA</b>	NT	ITEM: Powerhou	ıse
VISIT	LOCATION:		DATE OF VISIT:	/ /
Factor · "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 200 Fill a	nd Selected Fill			
DPWS-200-01	Conformance of in-placed materials according to plans and specifications	/	x	
DPWS-200-02	Conformance to the required thickness of fill or backfill per layer.	/	x	
DPWS-200-03	Conformance to the required density or degree of compaction	/	X	
		/	x	
Item 201 Soil F	Poisoning			
DPWS-201-01	Conformance to the specified concentration of soil poisoning solution.	/	x	
DPWS-201-02	Conformance to the specified rate of application.	/	X	
		/	X	
Item 202 CHB Wall				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of		fects	
DPWS-202-01	Conformance to required dimensions, location, plumbness and alignment.	/	x	
DPWS-202-02	Conformance to required quality of CHB as stipulated in the specifications	/	X	
DPWS-202-03	Conformance to required quality of mortar mix.	/	x	
		/	x	
Minor				
DPWS-202-01	Conformance to specified tolerances for dimension, location, plumbness and alignment.	/	X	
DPWS-202-04	Proper spacing of horizontal and vertical bars.	/	X	
DPWS-202-05	Rebars used free from corrosion.	/	X	
		/	x	
		/	X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date: _ / /_	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: **DIESEL POWER PLANT** ITEM: **Powerhouse** 

VISIT	LOCATION:		DATE OF VISIT:	/ /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 203 Brick	t Wall			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
DPWS-203-01	Conformance to required dimensions, location, plumbness and alignment.	/	X	
DPWS-203-02	Conformance to required quality of bricks as stipulated in the specifications	/	=X	
DPWS-203-03	Conformance to required quality of mortar mix.	/	x	
Minor				
DPWS-203-01	Conformance to specified tolerances for dimension, location, plumbness and alignment.	/	X	
DPWS-203-04	Proper spacing of horizontal and vertical bars.	/	=x	
DPWS-203-05	Rebars used free from corrosion.	/	X	
		/	=x	
Item 204 Tiled	Finish			
DPWS-204-01	Installed tiles free from chipping, cracks or any form of damage	/	x	
DPWS-204-02	Mortar/Grout consistency and color conformed to specification	/	x	
DPWS-204-03	Tiles are evenly placed or laid on.	/	=X	
DPWS-204-04	Tiles in wet areas are sloped toward the drain.	/	X	
DPWS-204-05	Tiles are properly bonded to the floor or walls.	1	X	
		/	=X	
Item 205 Trow	relled Floor Finish			
DPWS-205-01	Smooth and even floor finish.	/	=X	
DPWS-205-02	No temperature cracks.	/	=x	
DPWS-205-03	No sign of deflection/settlement.	/	x	
		/	x	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date:/_/_	-	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.: PROJECT TYPE: **DIESEL POWER PLANT** ITEM: **Powerhouse** 

VISIT	LOCATION:		DATE OF VISIT:	/ /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 206 Pebb	le Washout			
DPWS-206-01	Installed pebbles are evenly distributed.	1	x	
DPWS-206-02	No temperature cracks.	/	x	
DPWS-206-03	Installed pebbles surface are thoroughly clean from cement.	/	X	
		/	x	
Item 207 Wate	rproofing			
DPWS-207-01	Conforms to specified method of application.	/	X	
DPWS-207-02	Conforms to number of coats/layers required.	/	x	
DPWS-207-03	Passed required leak test.	/	x	
DPWS-207-04	Conformance to the required materials specifications as per plan.	/	x	
		/	X	
Item 208 Wall	Paper			
DPWS-208-01	Smooth and evenly pasted.	/	x	
DPWS-208-02	Free from scratches, stains, etc.	/	X	
		/	X	
Item 209 Wall	Plaster Finish			
DPWS-209-01	Conformance to designed mixture of plastering materials.	/	x	
DPWS-209-02	Conformance to specified method of application and thickness of plastering.	/	X	
DPWS-209-03	True to alignment.	/	x	
DPWS-209-04	Free from any form of damages, e.g. cracks, peeled-off plaster finish	1	x	
		/	x	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	
				4

PROJECT ID/NO.: PROJECT TYPE: **DIESEL POWER PLANT** ITEM: **Powerhouse** 

VISIT	LOCATION:		DATE OF VISIT:	/ /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 210 Wall	Cladding			
DPWS-210-01	Panels properly anchored.	/	X	
DPWS-210-02	True to alignment, plumbness.	/	X	
DPWS-210-03	Free from any form of damages.	/	X	
DPWS-210-04	Panels conform to construction procedure.	/	X	
		/	x	
Item 211 Wall/	Roof Painting			
DPWS-211-01	Surface prepared according to specification.	/	X	
DPWS-211-02	Required neutralizers, etc. applied.	/	X	
DPWS-211-03	Applied paint appropriate to the surface.	/	X	
DPWS-211-04	Specified number of coats applied.	/	X	
DPWS-211-05	Surfaces evenly painted, proper opacity.	/	X	
DPWS-211-06	No discoloration and peeling-off of paint.	/	X	
DPWS-211-07	Paints conform to specification/requirements.	/	X	
DPWS-211-08	Surfaces are properly applied with putty/patching compound.	/	x	
		/	x	
Item 212 Ceili	ing Suspension			
DPWS-212-01	Conformance to the specified spacing and length of hangers, clips and joists.	/	x	
DPWS-212-02	Installed hangers are properly anchored and firm.	/	X	
DPWS-212-03	True to alignment and elevation in conformance to the approved specified tolerance.	/	X	
DPWS-212-04	Free from any form of damage.	/	x	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:	•	Total Score (a) =	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: _ / _/_		Rate = (a) / (b)	
			Rate	
			_	1

PROJECT ID/NO.: PROJECT TYPE: DIESEL POWER PLANT LOCATION:  Factor: "During Construction" = 0.40; "Upon Completion" = 0.50		ITEM: <b>Powerhouse</b> DATE OF VISIT: / /		
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 213 Ceili	ng Board			
DPWS-213-01	Materials free from any form of damage.	/	X	
DPWS-213-02	Smooth surface and true to elevation and alignment.	/	x =	
DPWS-213-03	Location of holes for utilities conforms to plans.	/	x =	
DPWS-213-04	Ceiling boards are properly fastened.	/	X	
		/	X	
Item 214 Ceili	ng Moulding			
DPWS-214-01	True to elevation and alignment.	/	x	
DPWS-214-02	Installed materials are free from any form of damages.	/	X	
		/	x	
Item 215 Roof	ing Frames			
DPWS-215-01	Conformance to the required size, spacing, slope, anchorage, etc.	/	X	
DPWS-215-02	Free from any form of damage.	/	x	
DPWS-215-03	Cleats are properly provided.	/	X	
DPWS-215-04	Application of paint primer prior to installation	/	x	
		/	X	
Item 216 Roof	ing Sheets			
DPWS-216-01	Conformance to the specified gauge, length, etc.	/	x	
DPWS-216-02	Conformance to the specified overlapping, sealing of joints,	/	x	
DPWS-216-03	fastening. Installation of flashing, gutters, ridge rolls, downspouts, etc.,	/	x	
DPWS-216-04	according to plans.  Non-occurrence of leaks.	/	x	
DPWS-216-05	Free from any form of damage.	/	= x	
Was subsenting!	rupod2 If you name of company and ourse.		Total Score (a)	CAR Total
	r used? If yes, name of company and owner: &	_	No. of Indicators (b)	
Entered by:	Date:/_/_	-	Rate = (a) / (b)	

Rate

	Cres Checklist For Workiman.	эпіг		
PROJECT ID/NO	NO.: PROJECT TYPE: <b>DIESEL POWER PLANT</b> LOCATION:		ITEM: <b>Powerho</b> l DATE OF VISIT:	
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	Score x factor	Action / Monitor
Harra 047, Dan	specific item of work is zero (0).			
Item 217 Doo				
DPWS-217-01	True to alignment, plumbness in conformance to the approved/specified tolerance.	/	X	
DPWS-217-02	Doors are well fitted to the door frames.	/	X	
DPWS-217-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers.	/	X	
DPWS-217-04	Free from any form of damage.	/	x	
DPWS-217-05	Doors conform to specification requirements, e.g. panel door, flush door polyvinyl, steel doors, etc.	/	x	
	acci, naci acci poly my, cico accio, cici	/	x	
		/	x	
Item 218 Win	dows			
DPWS-218-01	True to alignment and elevation in conformance to the approved/specified tolerance.	/	X	
DPWS-218-02	Windows are well fitted to the window frames.	/	X	
DPWS-218-03	Window accessories installed according to plans, e.g. handles, seals, glazing for glass window, etc.	/	X	
DPWS-218-04	Free from any form of damage.	/	X	
DPWS-218-05	Windows conform to specification requirements, e.g.sliding, jalousies (glass and wooden) steel casement windows	/	x	
		/	X	
		/	X	
Item 219 Rail	ings			
DPWS-219-01	Installed according to plans.	/	X	
DPWS-219-02	Free from dents, scratches or any form of damage.	/	X	
DPWS-219-03	Bends and curves are smooth.	/	X	
DPWS-219-04	Conforms to approved tolerance size, dimension, height and type, e.g. concrete, steel, stainless, aluminum, etc.	/	X	
		/	X	
Was subcontracto	or used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date: _ / /_	_	Rate = (a) / (b)	

Rate

PROJECT ID/NC	PROJECT TYPE: <b>DIESEL POWER PLANT</b>		ITEM: Powerhouse	
VISIT	LOCATION:		DATE OF VISIT:	/ /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 220 Plum	bing			
DPWS-220-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports.	/	X	
DPWS-220-02	Conducted and passed the required leak test.	/	X =	
DPWS-220-03	Pipes not clogged.	/	x	
DPWS-220-04	Free from any form of damages.	/	X	
DPWS-220-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location.	/	X	
DPWS-220-06	Adhesive conform to specification.	/	=x	
DPWS-220-07	Water closet, lavatory conform to specification.	/	X	
		/	x	
		/	X	
		/	X	
Item 221 Sani	tary			
DPWS-221-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports.	/	x	
DPWS-221-02	Conducted and passed the required pressure/leak test.	/	X	
DPWS-221-03	Pipes not clogged.	/	X	
DPWS-221-04	Free from any form of damages.	/	X	
DPWS-221-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location.	/	X	
DPWS-221-06	Adhesives conform to specifications.	/	=x	
		/	x	
		/	x	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/NC	O.: PROJECT TYPE: <b>DIESEL POWER PLANT</b>		ITEM: Powerhouse	
VISIT	LOCATION:		DATE OF VISIT:	/ /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 222 Struc	ctural Steel Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
DPWS-222-01	Conformance of in-placed materials to plans and specifications.	/	x	
DPWS-222-02	Conformance to required fasteners, anchor bolts,bolts/nuts and washers (not provided).	/	x	
DPWS-222-03	Free from corrosion and any other form of damages.	/	x	
DPWS-222-04	Conformance to splicing requirements.	/	x	
Minor				
DPWS-222-03	Free from rust and any other form of damages.	/	X	
DPWS-222-06	Conformance to the specified type of welding.	/	x	
DPWS-222-07	Fasteners, anchor bolts, bolts/nuts & washers conforms to specified size, strength, etc.	/	X	
DPWS-222-08	Installed according to plans.	/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
		/	x	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date:/_/		Rate = (a) / (b)	
			Rate =	

PROJECT ID/NO	D.: PROJECT TYPE: <b>DIESEL POWER PLA</b> LOCATION:	MT	ITEM: <b>Powerho</b> DATE OF VISIT:	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 223 Elec	trical Works			
DPWS-223-01	Pipes installed according to plans and laid out according to approved construction drawings.	/	X	
DPWS-223-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed.	/	X	
DPWS-223-03	Pipes properly bended.	/	X	
DPWS-223-04	Allowable number of wires in a pipe properly observed.	/	X	
DPWS-223-05	Splicing and connection provided with adequate rubber and pvc tapes.	/	X	
DPWS-223-06	Adequate length of wire provided for termination and splicing.	/	X	
DPWS-223-07	Wire color coding complied and observed.	/	x	
DPWS-223-08	Wire insulation not damaged during pulling.	/	x	
DPWS-223-09	Adequate number, correct size and gauge of pull boxes installed and properly covered.	/	X	
DPWS-223-10	Boxes and enclosures provided according to intended purpose.	/	x	
DPWS-223-11	Fittings and accessories provided and properly installed.	/	X	
DPWS-223-12	Block-outs and sleeves provided and properly secured.	/	x	
DPWS-223-13	Cable ties provided.	/	X	
DPWS-223-14	Blank covers provided for outlets and switches that are not utilized.	/	X	
DPWS-223-15	Use of tools and equipment properly observed.	/	x	
DPWS-223-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages.	/	x	
DPWS-223-17	Meager, clamp, phase sequence tests and load test conducted.	/	X	
DPWS-223-18	Shop drawings, as-built plan maintained.	/	X	
		/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date:/_/_	_	Rate = (a) / (b)	
			Rate	1
			<u> </u>	4

PROJECT ID/NO.: \_\_\_\_\_ PROJECT TYPE: **DIESEL POWER PLANT** ITEM: **Powerhouse** 

VISIT	LOCATION:		DATE OF VISIT:	/ /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 224 Air C	onditioning System			
DPWS-224-01	Air-conditioning units, transfer fans, pipes, ducts, condensers are installed according to plans.	/	X	
DPWS-224-02	Jointing of pipes and ducts conform to specified jointing system.	/	X	
DPWS-224-03	Pipes and ducts free from leaks.	/	x	
DPWS-224-04	Pipes and ducts sufficiently braced/supported.	/	x	
DPWS-224-05	Installed materials free from any form of damage.	/	X	
DPWS-224-06	Conducted and passed the required tests.	/	X	
		/	X	
Item 225 Venti	lation System			
DPWS-225-01	Conformance to the design specifications and drawings.	/	X	
DPWS-225-02	Casing free from dent.	/	X	
DPWS-225-03	Conducted and passed the required tests.	/	X	
		/	x	
Item 226 Sept	ic Vaults			
DPWS-226-01	Adherence to proper construction methodology	/	X	
DPWS-226-02	Conformance with approved/specified for lines, grades, cross-section, elevation, & dimensions as indicated in drawing.	/	X	
DPWS-226-03	Adherence to proper connection of the outlet pipe to main sewer.	/	X	
		/	X	
		/	X	
		/	X	
		/	x	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date:/_/_	_	Rate = (a) / (b)	
			Rate =	

PROJECT ID/NOVISIT	LOCATION:	ANT	ITEM: <b>Equipmen Foundatio</b> DATE OF VISIT:	ns
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50 INDICATORS		1	
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 300 Fill /	Sand and Gravel Bedding			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
DPWS-300-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-300-02	Conformance to the required thickness of bedding and of fill per layer	/	=x	
DPWS-300-03	Conformance to the required density or degree of compaction	/	=X	
Minor				
DPWS-300-04	Conformance to ground level restoration.	/	=x =x	
		/	=	
Item 301 Lean	Concrete			
DPWS-301-01	Adherence to proper construction methodology.	/	X	
DPWS-301-02	Conformance to the required thickness and strength	/	X	
		/	=X	
Item 302 Anch	or Bolt Setting			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De		
DPWS-302-01	Conformance to the anchor bolt setting dimensions.	/	X	
DPWS-302-02	Precise setting of template.	/	=X	
Minor				
DPWS-302-03	Anchor bolts and templates fix with supporter.	/	=x	
		/	=X	
Item 303 Epox	y and Non-cementitous Grouting			
DPWS-303-01	Conformance to the required workmanship in mixing, placing, spreading, compacting, curing and surface finishing as showing on drawing or indicated in the specifications.	/	X	
		/	=x	
		/	X	
	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date:/_/	<u> </u>	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO	ID/NO.: PROJECT TYPE: <b>DIESEL POWER PLANT</b>		ITEM: Equipment	
VISIT	LOCATION:		Foundatio	ns
			DATE OF VISIT:	/ /
Factor : "During C	construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 304 Cable	Trench Cover and Supports			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
DPWS-304-01	Provision of block-outs for installation of metal works.	/	X	
DPWS-304-02	Metal works and materials installed in accordance to the details shown in the drawing (alignment, position).	/	x	
DPWS-304-03	Block-outs were grouted after installation of metal works.	/	X	
		/	=x	
Item 305 Grave	el Surfacing			
Major				
DPWS-305-01	Conformance to required lines, grades and thickness.	/	=x	
Minor				
DPWS-305-02	Compliance to the specified construction methodology.	/	x	
DPWS-305-03	No oversize/undersize of in-placed materials.	/	x	
		/	x	
		/	x	
		/	X	
		/	x	
		/	x	
		/	x	
		/	x	
		/	=x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	-	No. of Indicators (b) =	
Entered by:	Date:/ /	_	Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NC	O.: PROJECT TYPE: <b>DIESEL POWER PLANT</b>		ITEM: Common Items	
VISIT	LOCATION:		of Works	
			DATE OF VISIT:	/ /
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 400 Exca	vation			
DPWS-400-01	Conformance to the approved/specified tolerance for lines, grades, dimensions and elevations.	/	x	
DPWS-400-02	Conformance to the excavation support system, (e.g. angle of repose, bracing, shoring, sheet piling)	1	x	
		/	X	
Item 401 Back	fill			
DPWS-401-01	Conformance of in-placed materials to plans and specifications.	/	x	
DPWS-401-02	Conformance to the required thickness of backfill per layer	/	X	
DPWS-401-03	Conformance to the required density or degree of compaction	1	=x	
		/	=X	
Item 402 Form	works			
DPWS-402-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	=X	
DPWS-402-02	Forms coated with mould oil as required	/	X	
DPWS-402-03	Sufficient bracing/support provided	/	X	
DPWS-402-04	No loose knots, splits, cracks, etc.	/	X	
DPWS-402-05	Provision of required concrete or steel spacer	/	X	
DPWS-402-06	Conformance to dimensions, location, plumbness and alignment	/	X	
DPWS-402-07	No use of dilapidated/salvage forms (use more than 3x)	/	X	
		/	X	
		1	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date:/_/_		Rate= (a) / (b) =	
			Rate =	

PROJECT ID/NO	DESEL POWER PLA	NN I	ITEM: Common	items
VISIT	LOCATION:		of Work	s
			DATE OF VISIT:	/ /
Factor: "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	Score x factor	Action / Monitor
	specific item of work is zero (0).			
Item 403 Reinforcing Steel Bars (including tendons for Pre/Post- Stressed Concrete)				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	efects	
DPWS-403-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-403-02	No appearance of corrosion on steel reinforcement.	/	=X	
Minor				
DPWS-403-02	No appearance of corrosion on steel reinforcement.	/	X	
DPWS-403-03	Conformance to approved bar cutting schedule, proper spacing, anchorage and adequate reinforcements.	/	X	
DPWS-403-04	No sign of oil, paint and other deleterious materials on reinforcements.	/	x	
DPWS-403-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X	
DPWS-403-06	Conformance to proper bending of stirrups	/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date:/_/_		Rate= (a) / (b) =	
			Rate =	

	CPES CHECKLIST FOR WORKMANS	SHIP		
VISIT	PROJECT ID/NO.: PROJECT TYPE: <b>DIESEL POWER PLANT</b> LOCATION:  Factor: "During Construction" = 0.40; "Upon Completion" = 0.50		ITEM: Common Items of Works DATE OF VISIT: / /	
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 404 Con	crete			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
DPWS-404-01	No through cracks.	/	X	
DPWS-404-02	No honeycomb (no exposed rebars/aggregates)	/	X	
DPWS-404-03	No evidence of sagging or bulging.	/	X	
DPWS-404-04	Conformance to required quality of concrete mix	/	X	
DPWS-404-05	Conformance to the required concrete cover for rebars.	/	X	
DPWS-404-06	Conformance to the jointing requirement.	/	X	
DPWS-404-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	x	
Minor				
DPWS-404-01	No cracks.	/	=X	
DPWS-404-02	No honeycomb.	/	X	
DPWS-404-03	No sagging or bulging.	/	=X	
DPWS-404-05	Conformance to the required concrete cover for rebars.	/	X	
DPWS-404-06	Conformance to the jointing requirement.	/	=X	
DPWS-404-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	

			_	
DPWS-404-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
DPWS-404-08	Proper and adequate vibration.	/	=X	
DPWS-404-09	Conformance to finishing/plastering requirement.	/	X	
DPWS-404-10	No chipping off of concrete cover.	/	=X	
DPWS-404-11	Conformance to the batching, mixing, transporting and discharge time requirements.	/	X	
DPWS-404-12	Proper curing.	/	=X	
DPWS-404-13	Conformance to required dimensions, lines. grades/elevation, location.	/	X	
		/	x	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date:/_/_		= Rate= (a) / (b) =	
			Rate =	

PROJECT NO.: _	PROJECT TYPE: <u>Diesel Power Plant</u>	TEM: <b>Eq</b> u	<u>iipment Installati</u>	<u>on</u>
VISIT	LOCATION:	DATE	OF VISIT:/_	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	Score x factor	Action / Monitor
	specific item of work is zero (0).			
Item 500 Diese	el Generator Set and its appurtenances			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
DPWS-500-01	Installed according to approved plans and specifications.	/	X	
DPWS-500-02	Conducted and passed all required pre commissioning and commissioning tests.	/	x	
		/	x	
Minor				
DPWS-500-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-500-04	Conformance with specified tolerances for plumbness and alignment.	/	X	
DPWS-500-05	No damage/defective component parts.	/	X =	
		1	X	
Item 501 Fuel (	Dil System			
Major				
DPWS-501-01	Fuel Oil Storage Tanks, Pumps, piping and other equipment and components are installed according to approved plans and specifications.		x	
SSWS-501-02	Conducted and passed the required tests.	/	X	
		/	x	
Minor				
DPWS-501-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	x	
DPWS-501-04	Conformance with specified tolerances for plumbness and alignment.	/	x	
DPWS-501-05	No damage/defective component parts.	/	x	
		/	X	
		/	X	
		/	X =	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b)	
			Rate =	1

PROJECT NO.:	PROJECT TYPE: <u>Diesel Power Plant</u>	TEM: <b>Eq</b>	uipment Installat	<u>ion</u>
VISIT	LOCATION:	DATE	OF VISIT: /	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50	1	ı	1
Sub-item	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action /
Code	the indicators in the said spot. Further, if the number of complying spots is	Results	x factor	Monitor
	less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
<b>500 0</b> I	in a Constant			
Item 502 Cool				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
DPWS-502-01	Cooling Water Storage Tanks, Pumps, piping and other equipment and components are installed according to	/	x	
J <b>G</b> 332 3.	approved plans and specifications.	,	=	
DPWS-502-02	Conducted and passed the required tests.	/	x	
		,	X	
		/	=	
		/	x	
Minor				
DPWS-502-03	Connections are properly secured by bolts, nuts, locknuts	/	x	
	and washers. Conformance with specified tolerances for plumbness and		= X	
DPWS-502-04	alignment.	/	=	
DPWS-502-05	No damage/defective parts and materials.	/	X	
		/	x	
Item 503 Cool	ing Water Supply System			
	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major C	) of octo	
Major	Water Storage Tanks, Pumps, piping and other equipment	oi iviajoi L	Defects	
DPWS-503-01	and components are installed according to approved plans	/	x	
	and specifications.		=	
DPWS-503-02	Conducted and passed the required tests.	/	X	
		/	x	
Minor				
DPWS-503-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-503-04	Conformance with specified tolerances for plumbnessb and alignment.	/	X	
DPWS-503-05	No damage/defective component parts.	/	x	
		/	= X	
		,	=	
		/	X	
Was subcontractor	r used? If yes, name of company and owner :		Total Score (a)	CAR Total
			No. of Indicators (b)	
Entered by:	Date:/_/_		Rate = (a) / (b)	
Entered by	Date	_	= (a) / (b)	
			Rate	1
			=	

PROJECT NO .: _	PROJECT TYPE: <u>Diesel Power Plant</u>	TEM: <u>Equ</u>	<u>ıipment Installati</u>	<u>on</u>
VISIT	LOCATION:	DATE	OF VISIT:/_	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 504 Lubr	ication Oil System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition		Defects	
DPWS-504-01	Lube Oil Tanks, Pumps, Filtering equipment and piping and other equipment and components are installed according to approved plans and specifications.		x	
DPWS-504-02	Conducted and passed the required tests.	/	X	
		/	x	
Minor				
DPWS-504-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-504-04	Conformance with specified tolerances for plumbness and alignment.	/	X	
DPWS-504-05	No damage/defective component parts.	/	X	
		/	X	
Item 505 Com	pressed Air System			
Major				
DPWS-505-01	Air Compressors, Receivers and piping and other equipment and components are installed according to approved plans and specifications.	/	x	
DPWS-505-02	Conducted and passed the required tests.	/	x	
		/	x	
Minor				
DPWS-505-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X =	
DPWS-505-04	Conformance with specified tolerances for plumbnes sand alignment.	/	X =	
DPWS-505-05	No damage/defective component parts.	/	X	
		/	X	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	1

PROJECT NO.:			uipment Installat	
VISIT	LOCATION:	DATE	OF VISIT:/_	<u>/</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 506 Exha	ust System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	-	efects	
DPWS-506-01	Exhaust Pipe and its support assembly are installed according to approved plans and specifications.	/	x =	
		1	X	
Minor				
DPWS-506-02	Connections are properly secured by bolts, nuts, locknuts and washers.	/	=X	
DPWS-506-03	Conformance with specified tolerances for plumbness and alignment.	/	X =	
DPWS-506-04	No damage/defective parts and materials.	/	X =	
		/	=x	
Item 507 Dom	estic Water Supply System			
Major				
DPWS-507-01	Water Storage Tanks, Pumps, piping and other equipment and components are installed according to approved plans and specifications.	/	x	
DPWS-507-02	Conducted and passed the required tests.	/	X	
		/	=X	
Minor				
DPWS-507-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X =	
DPWS-507-04	Conformance with specified tolerances for plumbness and alignment.	/	X	
DPWS-507-05	No damage/defective component parts.	/	x =	
		/	X =	
		/	X	
		/	=x	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date:/_/_		Rate = (a) / (b)	
			Rate =	

PROJECT NO.:VISIT	PROJECT TYPE: <u>Diesel Power Plant</u> IT LOCATION:		pment Installation	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 508 Power	Transformer			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Defe	ects	
DPWS-508-01	Installed according to approved plans and specifications.	/	X	
DPWS-508-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-508-03	Properly aligned and leveled.	/	X	
DPWS-508-04	Appurtenants are clean and free from damages.	/	X	
DPWS-508-05	Tanks, conservator, radiators coolers and fittings are free from oil leaks.	/	X	
DPWS-508-06	Approved as-built drawings maintained.	/	X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b)	
			= Rate	
			=	

PROJECT NO.: _ VISIT	PROJECT TYPE: <u>Diesel Power Plant</u> IT LOCATION:		<mark>ipment Installati</mark> OF VISIT:/	
	<del></del> -			
ractor: During C	Construction" = 0.40; "Upon Completion" = 0.50	1		
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 509 Power	Circuit Breaker			
Major				
DPWS-509-01	Installed according to approved plans and specifications.	/	=X	
DPWS-509-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-509-03	Mounting bases are properly aligned and leveled.	/	X	
DPWS-509-04	Installed materials are free from damages.	1	X =	
DPWS-509-05	Approved as-built drawings maintained.	/	X	
		/	=X	
Item 510 Station	n Service Transformer			
Major				
DPWS-510-01	Installed according to approved plans and specifications.	/	X	
DPWS-510-02	Conducted and passed the required tests.	1	=X	
Minor				
DPWS-510-03	Provision of proper ventilaton from the base of the finish ground level for cooling purposes.	/	=X	
DPWS-510-04	Properly aligned and leveled.	/	=X	
DPWS-510-05	Radiators and coolers are free from oil leaks.	/	=X	
DPWS-510-06	Approved as-built drawings maintained.	/	=X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	

PROJECT NO.:VISIT	PROJECT TYPE: <u>Diesel Power Plant</u> IT LOCATION:		<mark>ipment Installati</mark> OF VISIT: <u>/</u>	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 511 Kilowa	tt Hour Billing Meter			
Major				
DPWS-511-01	Installed according to approved plans and specifications.	/	X	
DPWS-511-02	Properly calibrated prior to installation.	/	X	
DPWS-511-03	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-511-04	Installed materials are free from damages.	/	X	
DPWS-511-05	Approved as-built drawings maintained.	/	X	
Item 512 Currer	nt Transformer			
Major				
DPWS-512-01	Installed according to approved plans and specifications.	/	=X	
DPWS-512-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-512-03	Installed materials are free from damages.	/	=X	
DPWS-512-04	Approved as-built drawings maintained.	/	X	
		/	X	
Item 513 Potent	ial/Voltage Transformer			
Major				
DPWS-513-01	Installed according to approved plans and specifications.	/	X	
DPWS-513-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-513-03	Installed materials are free from damages.	/	X	
DPWS-513-04	Approved as-built drawings maintained.	/	X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b)	
			Rate	
			I	

PROJECT NO.:	PROJECT TYPE: <u>Diesel Power Plant</u> IT		<u>ipment Installati</u>	
VISIT	LOCATION:	DATE	OF VISIT:/_	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 514 Metal	Clad Switchgear			
Major				
DPWS-514-01	Installed according to approved plans and specifications.	/	X	
DPWS-514-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-514-02	Stationary and moving assembly are properly aligned.	/	=X	
DPWS-514-03	Installed materials are free from damage.	/	X	
DPWS-514-04	Approved as-built drawings maintained.	/	=X	
		/	=X	
Item 515 Disco	nnect / Earthing Switch			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-515-01	Installed according to approved plans and specifications.	/	X	
DPWS-515-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-515-03	Moving parts are properly aligned and leveled.	/	=X	
DPWS-515-04	Installed materials are free from damages.	/	X	
DPWS-515-05	Approved as-built drawings maintained.	/	=X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate =	

PROJECT NO.: _			<mark>ipment Installati</mark> OF VISIT:/	
VISIT	LOCATION:	DATE	OF VISIT	<u>/</u>
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 516 Power	, Control & Protection Panel			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-516-01	Installed according to approved plans and specifications.	/	X	
DPWS-516-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-516-03	Terminal lugs are grip insulated.	/	X	
DPWS-516-04	Conformance to proper wirings, markings, tags and ties.	/	X	
DPWS-516-05	Installed materials are free from damage.	/	=X	
DPWS-516-06	Approved as-built drawings maintained.	/	X	
		/	=X	
Item 517 Surge/	Lightning Arrester			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-517-01	Installed according to approved plans and specifications.	/	X	
DPWS-517-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-517-03	Installed materials are free from damage.	/	=X	
DPWS-517-04	Discharge counter and cable are properly braced and connected to ground mat.	/	X	
DPWS-517-05	Approved as-built drawings maintained.	/	X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	

PROJECT NO.:	PROJECT TYPE: <u>Diesel Power Plant</u> IT	EM: <b>Equ</b> i	ipment Installati	<u>on</u>
VISIT	LOCATION:	DATE	OF VISIT:/_	/_
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 518 Uninte	rruptible Power Supply			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-518-01	Installed according to approved plans and specifications.	/	=X	
DPWS-518-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-518-03	Seismic anchor and clamping device are fixed to foundation.	/	=X	
DPWS-518-04	Termination of conductors to terminal blocks are provided with terminal lugs, insulated and gripped.	/	=X	
DPWS-518-05	Conformance to proper wirings, markings, tags and ties.	/	=X	
DPWS-518-06	No splicing of wires.	/	=X	
DPWS-518-07	Maximum of two lines are connected to one terminal block point.	/	=X	
DPWS-518-08	Approved as-built drawings maintained.	/	=X	
Item 519 Storag	e Battery			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-519-01	Installed according to approved plans and specifications.	/	=X	
DPWS-519-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-519-03	Battery racks are free from rust/corrosion.	/	=X	
DPWS-519-04	Current carrying parts are properly insulated.	/	X	
DPWS-519-05	No damage/defect in any material.	/	=X	
DPWS-519-06	Battery rooms are properly ventilated with exhaust fan and sealed to prevent entry of dust.	/	=X	
DPWS-519-07	Approved as-built drawings maintained.	/	X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	
			-	-

PROJECT NO.: VISIT	PROJECT TYPE: <u>Diesel Power Plant</u> IT LOCATION:		i <mark>pment Installati</mark> OF VISIT:/	
	Construction" = 0.40; "Upon Completion" = 0.50			<del></del> -
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 520 Batter	y Charger			
Major				
DPWS-520-01	Installed according to approved plans and specifications.	/	X	
DPWS-520-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-520-03	Conformance of wiring to required bending radius.	/	=X	
DPWS-520-04	Cable clamps are uniformly spaced.	/	X	
DPWS-520-05	Terminal lugs are grip insulated.	/	X	
DPWS-520-06	Installed materials are free from damage.	/	X	
DPWS-520-07	Approved as-built drawings maintained.	/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	_	No. of Indicators (b)	
Entered by:	Date:/ /		Rate = (a) / (b)	
			– Rate	
			=	

PROJECT NO.:	PROJECT TYPE: <u>Diesel Power Plant</u> IT	EM: <b>Equ</b>	ipment Installati	<u>on</u>
VISIT	LOCATION:	DATE	OF VISIT:/_	/_
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 521 Groun	ding System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	<b>l</b> ects	
DPWS-521-01	Installed according to approved plans and specifications.	/	x	
DFW3-321-01		,	=	
DPWS-521-02	Grounding connections are properly welded through exothermic process.	/	x	
DPWS-521-03	Overhead ground wire are properly strung according to specified tension and sag.	/	=X	
DPWS-521-04	Conducted and passed all required ground resistance tests.	/	X	
Minor				
DPWS-521-03	Overhead ground wire are properly strung according to specified tension and sag.	/	X	
DPWS-521-04	Conducted and passed all required ground resistance tests.	/	X	
DPWS-521-05	Ground rods installed according to approved plans.	/	X	
DPWS-521-06	Grounding trenches are excavated according to specified depth and width.	/	X	
DPWS-521-07	Provision of bedding materials for ground wire.	/	X	
DPWS-521-08	Ground leads are properly supported by clamps at specified intervals.	/	x	
DPWS-521-09	Shield wires and accessories are protected by specified corrosion inhibitor.	/	X	
DPWS-521-10	Steel structures with insulators or apparatus are properly connected to the ground mat.	/	=X	
DPWS-521-11	Structures with more than one leg are properly connected to the ground mat with risers at minimum of 2 different points.	/	X	
DPWS-521-12	Switchyard equipment are properly grounded to two different points of the ground mat.	/	X	
DPWS-521-13	Lighting poles and other metal structures are properly connected to ground mat.	/	=X	
DPWS-521-14	Cable trays, ladder, fence and gates are properly connected to ground mat.	/	=X	
DPWS-521-15	Test boxes are installed properly and connected to ground mat.	/	X	
DPWS-521-16	Approved as-built drawings maintained.	/	=X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b)	
			Rate	1
			=	J

PROJECT NO.:	PROJECT TYPE: <u>Diesel Power Plant</u> IT	ITEM: Equipment Installation		
VISIT	LOCATION: DATE OF VISIT:/ /_			
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 522 Bus Co	nductors and Hardwares			
Major				
DPWS-522-01	Installed according to approved plans and specifications.	/	=X	
DPWS-522-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-522-03	Conductors are free from copper dust and particles.	/	=X	
DPWS-522-04	No damage/defective members.	/	=X	
DPWS-522-05	Connectors/Terminal pad are equipped with approved type of bolts, nuts, flat washer and bevelled washers.	/	=X	
DPWS-522-06	Terminal connectors are free from burrs, edges, fillet, damage and cracks.	/	=X	
DPWS-522-07	Approved as-built drawings maintained.	/	=X	
		/	X	
Item 523 Gantri	es, Steel Structures and Supports			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-523-01	Conformance with the approved Erection Drawings and installation methodologies.	/	=X	
DPWS-523-02	Templates are used for setting anchor bolt system.	/	x	
Minor				
DPWS-523-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	=X	
DPWS-523-04	Stitch bolts are used in connecting double angle members.	/	=X	
DPWS-523-05	Correct direction and bolt position of bolt insertion.	/	=X	
DPWS-523-06	Conformance with specified tolerances for plumbness and alignment.	/	=X	
DPWS-523-07	No damage/defective structural members.	/	=X	
		/	=X	
Was subcontractor used? If yes, name of company and owner:			Total Score (a)	CAR Total
&		-	No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	

VISIT LOCATION: DATE OF VISIT:/  Factor: "During Construction" = 0.40; "Upon Completion" = 0.50	
Factor: "During Construction" = 0.40: "Upon Completion" = 0.50	A ation /
ractor i Barring Contestaction - 01-0, Open Completion - 0100	A ations /
Sub-item  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).  Score  Results  x factor	Action / Monitor
Item 524 Power / Control / Instrumentation Cables	
Major	
DPWS-524-01 Installed according to approved cable schedule. / =X	
DPWS-524-02 Conducted and passed required tests.  / =X	
Minor	
DPWS-524-03 Cables are properly installed and placed in conduits,x =x	
DPWS-524-04 Cables not yet terminated are properly sealed to prevent moisture entering into the cable.	
DPWS-524-05 Conformance to proper wirings, markings, tags and ties.  / =X	
DPWS-524-06 No splicing along trays and trench.	
DPWS-524-07 Termination of conductors to terminal blocks are provided / with terminal lugs, insulated and gripped.	
DPWS-524-08 Approved as-built drawings maintained. / =x	
/ =x	
Total Score (a) Was subcontractor used? If yes, name of company and owner:	CAR Total
No. of Indicators (b)	
Entered by: Date:/ / Rate = (a) / (b)	
Rate	
=	

PROJECT NO.:	<u> </u>		ipment Installati	
VISIT	LOCATION:	DATE	OF VISIT: /	<u>/</u>
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 525 Condu	its and Cable Tray System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	ects	
DPWS-525-01	Installed according to approved plans and specifications.	1	=X	
DPWS-525-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-525-03	Conduit ends are reamed and smoothened before jointing.	/	X	
DPWS-525-04	Provision of plug and fillers.	/	X	
DPWS-525-05	Provision of coupling and bends.	/	X	
DPWS-525-06	Provision of spacers, inserts and ties for conduits.	/	X	
DPWS-525-07	Provision of stow enamel coating inside conduits.	/	X	
DPWS-525-08	Provision of rigid metal expansion joints where required.	/	X	
DPWS-525-09	Cable trays, accessories and fittings are smooth, free from defects and sharp edges.	/	=X	
DPWS-525-10	Trays are properly installed and supported as per plan.	/	=X	
DPWS-525-11	Provision of adequate support on vertical cable runs.	/	=X	
DPWS-525-12	Multi core cables are clamped to the racks.	/	=X	
DPWS-525-13	Conformance to required leveling and alignment of all installed materials	/	=X	
DPWS-525-14	Conformance to grounding connections.	/	=X	
DPWS-525-15	Cables are adequately supported by racks and clamps, if it is not feasible to support cables by means of tray.	/	=X	
DPWS-525-16	Approved as-built drawings maintained.	/	=X	
		/	=X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&	-	No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
				_

### ANNEX 2-1

#### **CHECKLIST FOR MOORING FACILITIES FOR POWER BARGES**

Item 100	Site Development	2I -1
Item 101	Breakwater, Bulkhead, Causeway, Jetty Groin, Shore	2I -1
	Protection Works, i.e, Slope Protection (Riprap, Rubble,	
	Stone Masonry)	
Item 102	Gabions/Mattresses	21 -2
Item 103	Reinforced Concrete Piles	21 -3
Item 104	Timber/Wooden Piles	21 -4
Item 105	Steel Piles	21 -5
Item 106	Breasting and Mooring Dolphins	21 -6
Item 107	Bitts/Cleats/Bollards	21 -6
Item 108	Take-Off Structures	21 -7
Item 109	Rubber Fender	21 -7
Item 110	Reclamation Works	21 -8
Item 111	Dredging Works	21 -8
Item 112	Formworks	21 -8
Item 113	Reinforcing Steel Bars (Including Tendons for Pre/	21 -9
	Post-stressed Concrete	
Item 114	Concrete Works	21 -9
Item 115	Catwalk/Stair Landing/Ladder	21 -10
Item 116	Piping Works	21 -10
Item 117	Painting Works	21 -10
Item 118	Electrical Works	2I -11
Item 119	Grounding System	21 -12

PROJECT ID/N	- <u></u>	ITEM:	Site Developr	nent and
VICIT	for Power Barges	DATEC	Rockworks  OF VISIT: / /	
VISIT	LOCATION:	DATEC	)F VISIT: //	
Factor : "During C	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 100 Site D	evelopment			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Maj	ior Defects	3	
MFWS-100-01	Accurate establishment of Boundary of Site and Area of Development	/	=x	
MFWS-100-02	Precise establishment of benchmark and geodetic controls	/	=X	
MFWS-100-03	Conformance to the exact location of required mooring structures as shown in the drawings.	/	x	
MFWS-100-04	Proper removal of structures, rocks, boulders, non-perisable solid objects and other obstructions.(If there are any.)	/	X	
Item 101 Break	water, Bulkhead, Causeway, Jetty Groin, Shore, Protection			
Works, i.e., slop	e protection (riprap, rubble, stone masonry)			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ior Defects	6	
MFWS-101-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=x	
MFWS-101-02	Conformance to the design elevations	/	x	
MFWS-101-03	Conformance to the side slopes or berm as per design and specifications	/	X	
MFWS-101-04	Conformance to the location as per design and specifications	/	X	
MFWS-101-05	Conformance to the alignment as per design and specifications	/	X	
MFWS-101-06	Conformance to the rock placement methodology and/or construction methodology	/	X	
MFWS-101-07	Compliance/conformance to the designed foundation, e.g. toe	/	X	
Minor				
MFWS-101-01	Conformance within approved/specified tolerance for cross-section	/	=x	
MFWS-101-02	Conformance within approved/specified tolerance for elevation	/	x	
MFWS-101-08	Conformance within approved/specified tolerance for alignment	/	=x	
MFWS-101-09	Provision of adequate bedding as required	/	x	
MFWS-101-10	Non-occurrence of displaced/sucked-out rocks	/	X	
MFWS-101-11	Conformance within approved/specified tolerance of in-between gaps for rocks in-place	/	X	
MFWS-101-12	Provision of settlement plates/blocks	/	x	
		/	x	
	used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/N	IO.: PROJECT TYPE: Mooring Facilities	ITEM:	Gabion/Roo	kworks
	for Power Barges			
VISIT	LOCATION:	DATE C	OF VISIT: / /	,
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50	-		
VISIT	LOCATION:	DATE O	F VISIT: //	
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 102 Gabio	ns/Mattresses			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defects	3	
MFWS-102-01	Conformance to the cross-sectional dimensions as per design and specifications	/	X	
MFWS-102-02	Conformance to the design elevations	/	X	
MFWS-102-03	Conformance to the location as per design and specifications	/	X	
MFWS-102-04	Conformance to the alignment as per design and specifications	/	=X	
MFWS-102-05	Conformance to the wire mesh cage fabrication requirements (alignment, lapping, etc.)	/	X	
MFWS-102-06	Proper construction methodology, e.g., placing of rock fill materials, lapping and twisting of mesh wire	/	= X	
MFWS-102-07	Conformance to minimum density requirements (in kg./cu.m.) for filled gabions	/	=X	
		/	X	
		/	X	
		/	=X	
Minor				
MFWS-102-01	Conformance within the approved/specified tolerance for cross- sectional dimensions	1	X	
MFWS-102-02	Conformance within the approved/specified tolerance for elevations	1	X	
MFWS-102-04	Conformance within the approved/specified tolerance vs. the actual alignment	1	X	
MFWS-102-08	Provision of adequate bedding as required	/	X	
		/	X	
		/	=X	
		/	X	
		/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/N	O.: PROJECT TYPE: Mooring Facilities for Power Barges	ITEM:	Concrete Pile	esworks
VISIT	LOCATION:	DATE C	OF VISIT: / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 103 Reinfo	rced Concrete Piles			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Maj	jor Defects	3	
MFWS-103-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
MFWS-103-02	Conformance to the design length as per design and specifications	/	X	
MFWS-103-03	Conformance to the minimum required embedment of spliced joint	/	=X	
MFWS-103-04	Use of metal collar and/or protective caps during driving	/	X	
MFWS-103-05	Attainment of required pile penetration/bearing capacity	/	X	
MFWS-103-06	Pile shoe is provided for each pile	/	X	
MFWS-103-07	Conformance to required number of piles supplied and driven in- place	/	X	
MFWS-103-08	Lifting of each pile is at designed lifting points	1	X	
MFWS-103-09	Vertical piles are driven plumb	/	=x	
MFWS-103-10	Batter piles are driven in accordance with the designed slope	/	X	
		/	X	
		/	X	
Minor				
MFWS-103-01	Conformance within the approved/specified tolerance for dimension	/	=X	
MFWS-103-02	Conformance within the approved/specified tolerance for pile length	/	X	
MFWS-103-09	Conformance within the approved/specified tolerance for plumbness/verticality	/	X	
MFWS-103-10	Conformance within the approved/specified tolerance for slope of the batter piles	/	X	
MFWS-103-11	Proper graduation/markings	/	X	
MFWS-103-12	Steel lifting hooks are cut-off and applied with approved type of sealant	/	X	
MFWS-103-13	Alignment of the piles driven in-place are within the approved/specified tolerance	/	X	
MFWS-103-14	Pile cut-off elevations are chipped-off properly. Free from excessive chipping below the cut-off elevations	/	X	
		/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	

PROJECT ID/N	<del></del>	ITEM:	Timber Piles	sworks
	for Power Barges			
VISIT	LOCATION:	DATE C	OF VISIT: / /	1
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 104 Timber	/Wooden Piles			
Major	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ior Defects	S	
MFWS-104-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
MFWS-104-02	Conformance to the design length as per design and specifications	/	=X	
MFWS-104-03	Use of metal collar and/or protective caps during driving	/	=X	
MFWS-104-04	Attainment of required pile penetration/bearing capacity	/	X =	
MFWS-104-05	Conformance to the required number of piles supplied and driven in- place	/	X =	
MFWS-104-06	Lifting is at designated lifting points of each pile	/	X	
MFWS-104-07	Vertical piles are driven plumb	/	X	
MFWS-104-08	Batter piles are driven in accordance with the designed slope	/	X	
MFWS-104-09	No massive splitting is visible perpendicular to the pile length	/	X	
		/	X	
		/	X	
Minor				
MFWS-104-01	Conformance within the approved/specified tolerance for dimension	/	X	
MFWS-104-02	Conformance within the approved/specified tolerance for pile length	/	X	
MFWS-104-07	Conformance within the approved/specified tolerance for plumbness/verticality	/	X	
MFWS-104-08	Conformance within the approved/specified tolerance for slope of the batter piles	/	X	
MFWS-104-10	Proper graduation/markings	/	X	
MFWS-104-11	Alignment of the piles driven in-place are within the approved/specified tolerance	/	X	
MFWS-104-12	Pile butt is free from brooming	/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	

PROJECT ID/N	O.: PROJECT TYPE: Mooring Facilities for Power Barges	ITEM:	Steel Pilesw	orks
VISIT	LOCATION:	DATE C	F VISIT: / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 105 Steel P	iles			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma			
MFWS-105-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
MFWS-105-02	Conformance to the design length as per design and specifications	1	=X	
MFWS-105-03	Use of metal collar and/or protective caps during driving	/	=x	
MFWS-105-04	Attainment of required pile penetration/bearing capacity	/	=X	
MFWS-105-05	Conformance to the splicing requirements as per design and specifications	/	X	
MFWS-105-06	Conformance to required number of piles supplied and driven in- place	/	X	
MFWS-105-07	Lifting of each pile is at designed lifting points	/	x	
MFWS-105-08	Vertical piles are driven plumb	/	X	
MFWS-105-09	Batter piles are driven in accordance with the specified slope	/	X	
MFWS-105-10	Driven piles are free from massive dents or damages	/	x	
MFWS-105-11	Each pile is properly applied with protective coating as required	/	x	
		/	x	
		1	X	
Minor				
MFWS-105-01	Conformance within the approved/specified tolerance for dimension	1	=X	
MFWS-105-02	Conformance within the approved/specified tolerance for pile length	/	X	
MFWS-105-08	Conformance within the approved/specified tolerance for plumbness/verticality	/	=X	
MFWS-105-09	Conformance within the approved/specified tolerance for slope of the batter piles	/	X	
MFWS-105-12	Proper graduation/markings	/	X	
MFWS-105-13	Alignment of the piles driven in-place are within the approved/specified tolerance	/	X	
MFWS-105-14	Pile cut-off are properly cut with appropriate cutting outfits at the established pile cut-off elevations	/	X	
		/	X	
		/	x	
		/	x	
Was subcontractor	used? If yes, name of company and owner:	-	Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	

VISIT LOCATION: 0.50 Power Barges DATE OF VISIT: / / Factor: "During Construction" = 0.40; "Upon Completion" = 0.50  Note: Sports with a single major defect shall forefel all points for the rest of the institutions in the seal stage. Further, if the number of complying sports is appealfic liter of work is zero (i).  Note: Sports with a single major defect shall forefel all points for the rest of the institution in the seal stage. Further, if the number of complying sports is reported in the institution of the or Defects of the Complete stage of the complete stage of the stage of the sports of sports. The stage of the stage of the sports of sports for the rest of sports of the sports of sports of the sports of sports. The stage of the sports of sports of the sports of the sports of the sports of sports of sports of the sports of sports of sports of sports of the sports of spor	PROJECT ID/N		ITEM:	•	nd Bitts/
Factor: "During Construction" = 0.40; "Upon Completion" = 0.50  INDICATORS  Sub-item Code	VICIT		DATE		1
Note: Spots with a single regior debet shall farint all priorits for the rest of the indicators in the said spot Further, if the number of complying spots in the side spot file that it is the state of the indicators in the said spot file that it is the state of the indicators in the said spot file that it is shall style precent (50%) of the folial number of spots, the raining for their spots than they expend (50%) of the folial number of spots, the raining for their spots than the spots than the spots of the CPES Guidelines for definition of Mayor Defects  MFWS-106-01 Adherence to proper construction methodology.  MFWS-106-02 Conformance to exact location and relative position with reference on the power barge as shown in the site development plan.  MFWS-106-03 Conformance to the required size and number of piles driven.  MFWS-106-04 Conformance to the correct section, dimensions and elevation of file and pile caps.  MFWS-106-05 Conformance within the approved/specified tolerance for dimension file and piles an		LOCATION:	DATEC	DE VISIT: /	/
Note: Spots with a single major defect shall forfeit all points for the rest of the indicators on the seal spot. Finther, if the number of complying spots is east flat percent (SN) of the total number of spots, the rating for that specific letter of work is zero (I).    Item 106 Breasting and Mooring Dolphins	Factor : "During (				
Item 106 Breasting and Mooring Dolphins  Major   **Fefer to Section 11.4.a of the CPES Guidelines for definition of Major Defects  MFWS-108-01   Conformance to exact location and relative position with reference	Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of	Results		
Mejor Refer to Section 11.4.a of the CPES Guidelines for definition of Major Defects  MFWS-106-01 Adherence to proper construction methodology.  Conformance to exact location and relative position with reference to the power barge as shown in the site development plan.  MFWS-106-03 Conformance to the required size and number of piles driven.  Conformance to the correct section, dimensions and elevation of pile caps.  MFWS-106-04 Conformance within the approved/specified tolerance for dimension of pile caps.  MFWS-106-05 Conformance within the approved/specified tolerance for dimension of pumbness/verticatity.  MFWS-106-06 Conformance within the approved/specified tolerance for pumbness/verticatity.  MFWS-106-07 Conformance within the approved/specified tolerance for slope of pumbness/verticatity.  MFWS-107-00 Tender of the sequired supply and installation of bits, cleats and bollards as per plans and specifications.  MFWS-107-01 Conformance to the required supply and installation of bits, cleats and bollards as per plans and specifications.  MFWS-107-02 Conformance to the development pumber of anchor bolts, nuts and washers in accordance with the plans and specifications.  MFWS-107-03 Conformance to the required number of anchor bolts, nuts and pumble of pumble of anchor bolts and bollards as per plans and specifications.  MFWS-107-06 Conformance to the required number of anchor bolts, cleats of anchor bolts and nuts.  MFWS-107-07 Non-occurrence of corrosion // =					WOTHO
MFWS-106-01 Adherence to proper construction methodology.  MFWS-106-02 Conformance to exact location and relative position with reference to the power barge as shown in the site development plan.  MFWS-106-03 Conformance to the required size and number of piles driven.  MFWS-106-04 Comformance to the correct section, dimensions and elevation of pile caps.  Mfmor  MFWS-106-05 Conformance within the approved/specified tolerance for dimension / = x	Item 106 Breast	ing and Mooring Dolphins			
MFWS-106-02 Conformance to the correct section, dimensions and elevation of pile caps.  MFWS-106-03 Conformance to the correct section, dimensions and elevation of pile caps.  MFWS-106-04 Comformance to the correct section, dimensions and elevation of pile caps.  MINOR  MFWS-106-05 Conformance within the approved/specified tolerance for dimension of pile caps.  MFWS-106-06 Conformance within the approved/specified tolerance for pile bumbness/verticatity  MFWS-106-07 Conformance within the approved/specified tolerance for plumbness/verticatity  MFWS-106-07 Conformance within the approved/specified tolerance for plumbness/verticatity  MFWS-106-07 Conformance within the approved/specified tolerance for spumbness/verticatity  MFWS-107-08 Conformance within the approved/specified tolerance for spumbness/verticatity  MFWS-107-01 Conformance within the approved/specified tolerance for specified tolerance for spumbness/verticatity  MFWS-107-02 Conformance within the approved/specified tolerance for specific tolerance for spumbness/verticatity  MFWS-107-03 Conformance to the required supply and installation of bitts, cleats and bollads as per plans and specifications  MFWS-107-03 Conformance to the required number of anchor bolts, nuts and washers in accordance with the plans and specifications  MFWS-107-06 Conformance to the anchoring/embedment requirements of the packed tolerance to the anchoring-membedment requirements of the packed tolerance to the specifications  MFWS-107-06 Conformance to the the specifications and bollads as per plans and specifications  MFWS-107-07 Non-occurrence of corrosion  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the packed tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the packed tolerances  MFWS-107-07 Non-occurrence of company and owner:	Major	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ior Defects	3	
MFWS-106-03 Conformance to the required size and number of piles driven.  MFWS-106-04 Comformance to the correct section, dimensions and elevation of pile caps.  MFWS-106-05 Conformance within the approved/specified tolerance for dimension  MFWS-106-06 Conformance within the approved/specified tolerance for glumbness/verticality  MFWS-106-07 Conformance within the approved/specified tolerance for slope of the batter piles  MFWS-106-07 Conformance within the approved/specified tolerance for slope of the batter piles  MFWS-107-01 Conformance to the required supply and installation of bits, cleats and bollards as per plans and specifications  MFWS-107-02 Conformance to the required number of anchor bolts, nuts and years with the plans and specifications  MFWS-107-03 Conformance to the anchoring/embedment requirements of the anchoring/embedment requirements of the anchoring/embedment requirements of the anchoring/embedment requirements of the anchoring-mbedment requirements of the a	MFWS-106-01	Adherence to proper construction methodology.	/	X	
MFWS-106-03 Conformance to the required size and number of piles driven.  MFWS-106-04 Comformance to the correct section, dimensions and elevation of pile caps.  MFWS-106-05 Conformance within the approved/specified tolerance for dimension of the batter piles of the piles of	MFWS-106-02	·	/	X	
MFWS-106-05   MFWS-106-05   Conformance within the approved/specified tolerance for dimension   /	MFWS-106-03		/	x	
Minor  MFWS-106-05  MFWS-106-06  MFWS-106-07  MFWS-106-07  MFWS-106-07  MFWS-106-07  MFWS-106-07  MFWS-106-07  MFWS-106-07  MFWS-106-07  MFWS-106-08  MFWS-106-07  MFWS-106-07  MFWS-106-08  MFWS-107-01  MFWS-107-02  MFWS-107-02  MFWS-107-04  MFWS-107-05  MFWS-107-05  MFWS-107-05  MFWS-107-05  MFWS-107-06  MFWS-107-06  MFWS-107-06  MFWS-107-07  MFWS-107-08  MFWS-107-08  MFWS-107-08  MFWS-107-09  MFWS-107-09  MFWS-107-09  MFWS-107-06  MFWS-107-05  MFWS-107-06  MFWS-107-06  MFWS-107-07  MFWS-107-08  MFWS-107-08	MFWS-106-04	· ·	/	x	
MFWS-106-05  MFWS-106-06  MFWS-106-07  Conformance within the approved/specified tolerance for dimension / =x			/	x	
MFWS-106-06   Conformance within the approved/specified tolerance for plumbness/verticality	Minor				
MFWS-106-07   Dlumbness/verticality   Dumbness/verticality   Dumbnes	MFWS-106-05	Conformance within the approved/specified tolerance for dimension	1	x	
Conformance within the approved/specified tolerance for slope of the batter piles	MFWS-106-06		/	x	
Item 107 Bitts/Cleats/Bollards	MFWS-106-07	Conformance within the approved/specified tolerance for slope of	/	x	
Meyor		une batter pries	/	x	
MFWS-107-01  MFWS-107-02  MFWS-107-02  MFWS-107-03  MFWS-107-03  MFWS-107-04  MFWS-107-04  MFWS-107-05  MFWS-107-05  MFWS-107-05  MFWS-107-06  MFWS-107-06  MFWS-107-06  MFWS-107-07  MFWS-107-07  MFWS-107-08  MFWS-107-08  MFWS-107-08  MFWS-107-09  MFWS-107-07  MFWS-107-08  MFWS-107-08  MFWS-107-09  MFWS-	Item 107 Bitts/C	leats/Bollards			
MFWS-107-02 and bollards as per plans and specifications  MFWS-107-03 washers in accordance with the plans and specifications  MFWS-107-03 Conformance to pedestal/foundation requirements in accordance with the plans and specifications  MFWS-107-04 anchor bolts  MFWS-107-05 Conformance to the anchoring/embedment requirements of the anchor bolts and bollards as per plans and specifications  MFWS-107-06 Conformance to the type and installation requirements for sealers of anchor bolts and nuts  MFWS-107-07 Non-occurrence of corrosion  MFWS-107-07 Non-occurrence of corrosion  MFWS-107-08 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-05 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  M	Major	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ior Defects	3	
MFWS-107-02 Conformance to the required number of anchor bolts, nuts and washers in accordance with the plans and specifications  MFWS-107-03 with the plans and specifications  MFWS-107-04 Conformance to the anchoring/embedment requirements of the anchor bolts  MFWS-107-05 And bollards as per plans and specifications  MFWS-107-06 Conformance to the required number and location of bitts, cleats and bollards as per plans and specifications  MFWS-107-07 Non-occurrence of corrosion  MFWS-107-07 Non-occurrence of corrosion  MFWS-107-03 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-07 Non-occurrence of rust  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  Was subcontractor used? If yes, name of company and owner:	MFWS-107-01		/	X	
MFWS-107-03 Conformance to pedestal/foundation requirements in accordance with the plans and specifications  MFWS-107-04 anchor bolts  MFWS-107-05 Conformance to the required number and location of bitts, cleats and bollards as per plans and specifications  MFWS-107-06 of anchor bolts and nuts  MFWS-107-07 Non-occurrence of corrosion  MFWS-107-03 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  Marws-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSWS-107-04 Supplied/installe	MFWS-107-02	Conformance to the required number of anchor bolts, nuts and	/	x	
MFWS-107-04 Conformance to the anchoring/embedment requirements of the anchor bolts  MFWS-107-05 Conformance to the required number and location of bitts, cleats and bollards as per plans and specifications  MFWS-107-06 Conformance to the type and installation requirements for sealers of anchor bolts and nuts  MFWS-107-07 Non-occurrence of corrosion  MFWS-107-03 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-07 Non-occurrence of rust  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-09 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-09 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-09 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-09 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSPWS-107-09 Supplied/installed mooring fixtures and accessories within	MFWS-107-03	Conformance to pedestal/foundation requirements in accordance	/	x	
MFWS-107-05 Conformance to the required number and location of bitts, cleats and bollards as per plans and specifications  MFWS-107-06 Conformance to the type and installation requirements for sealers of anchor bolts and nuts  MFWS-107-07 Non-occurrence of corrosion  MFWS-107-03 MFWS-107-03 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-07 Non-occurrence of rust  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MSUS-107-08 Was subcontractor used? If yes, name of company and owner:  &	MFWS-107-04	Conformance to the anchoring/embedment requirements of the	/	x	
MFWS-107-06 Conformance to the type and installation requirements for sealers of anchor bolts and nuts  MFWS-107-07 Non-occurrence of corrosion  Minor  MFWS-107-03 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-07 Non-occurrence of rust  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  MFWS-107-08 Indicators used? If yes, name of company and owner:  Was subcontractor used? If yes, name of company and owner:  Bentered by:  Date: / /  Rate = (a) / (b) = Rate = (a) / (b) = Carrosian sealers of an anchor of such that the proved/specified tolerance in the proved/specified tolerance in the type and installation requirements for sealers of anchor of such that the proved/specified installation requirements for sealers of anchor of such that the proved/specified installation requirements for sealers of anchor of such that the proved/specified installation requirements for sealers of anchor of such that the proved/specified installation requirements for sealers of anchor of such that the proved/specified installation requirements for sealers of anchor of such that the proved/specified installation requirements for such that the proved/specified inst	MFWS-107-05	Conformance to the required number and location of bitts, cleats	/	x	
MFWS-107-07 Non-occurrence of corrosion  / =X   / =  / =	MFWS-107-06	Conformance to the type and installation requirements for sealers	/	x	
Minor  MFWS-107-03 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-07 Non-occurrence of rust  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  /x =	MFWS-107-07		/	x	
MFWS-107-03 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-07 Non-occurrence of rust  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  /X =			/	= x	
MFWS-107-03 Conformance to pedestal/foundation within the approved/specified tolerances  MFWS-107-07 Non-occurrence of rust  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  /X =	Minor			=	
MFWS-107-07 Non-occurrence of rust  MFWS-107-08 Supplied/installed mooring fixtures and accessories within the approved/specified tolerances  / =x   / =x   / =x   / =x   / =x    Was subcontractor used? If yes, name of company and owner: &   Entered by: Date: / /  Rate = (a) / (b)   = Rate = (a) / (b)   = Rate = (a) / (b)   = Rate = (a) / (b)			/	x	
Was subcontractor used? If yes, name of company and owner:   Entered by:   Date: / /   Rate = (a) / (b)   =	MFWS-107-07		/	x	
Was subcontractor used? If yes, name of company and owner:       Total Score (a)       CAR Total         Bentered by:       Date: / /       Rate = (a) / (b)	MFWS-107-08		/	x	
Was subcontractor used? If yes, name of company and owner:  &   Entered by: Date: / /   Rate = (a) / (b) =   Rate = (a) / (b) =   Entered by:		approved/specified tolerances	/	x	
& No. of Indicators (b) =	Was subsentracted	r upad2 If you name of company and country		Total Score (a)	CAR Total
=				No. of Indicators (b)	
= Rate	Entered by:	Date: / /		Rate = (a) / (b)	
				= Rate	1

PROJECT ID/N	O.: PROJECT TYPE: Mooring Facilities	ITEM:	Take- Off S	Structures
	for Power Barges		and Fenders	
VISIT	LOCATION:	DATE C	F VISIT: /	/
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
ractor. During C	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	Score x factor	Action Monitor
	specific item of work is zero (0).			
Item 108 Take-o				
Major	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ior Defects		
MFWS-108-01	Comformance to the design configuration dimensions and elevations.of the structures.	/	=x	
MFWS-108-02	Comformance to the correct section, dimensions and elevation of pile caps.	/	X	
MFWS-108-03	Conformance to the design plumbness and inclination (batter) of the driven piles shown in the drawings.	/	X	
		/	x	
Minor				
MFWS-108-04	Conformance within the approved/specified tolerance for dimension	/	x	
MFWS-108-05	Conformance within the approved/specified tolerance for plumbness/verticality	/	= x	
MFWS-108-06	Conformance within the approved/specified tolerance for slope and batter.	/	x	
	odio.	/	x	
		/	x	
Item 109 Rubbe	r Fender			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Maj	ior Defects	3	
MFWS-109-01	Conformance with the cross-sectional dimensions per design and specifications	/	X	
MFWS-109-02	Conformance to the required diameter/ length as per design and specifications	/	=x	
MFWS-109-03	Free from damages such as chipped-off edges, etc. during transport and handling	/	X	
MFWS-109-04	Installation in accordance with the locations as per design and specifications	/	=X	
MFWS-109-05	Installation in accordance with the designed elevation	/	X	
MFWS-109-06	Proper alignment of installed fenders	/	X	
MFWS-109-07	Complete installation of fixtures and accessories	/	X	
		/	X	
		/	X	
		/	=x	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	1

PROJECT ID/N	O.: PROJECT TYPE: Mooring Facilities for Power Barges	ITEM:	Reclamation/I	Dredging
VISIT	LOCATION:	DATE C	OF VISIT: / /	,
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
ractor. During C	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 110 Reclan	nation Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Majo	r Defects		
MFWS-110-01	Excavation/displacement of unsuitable materials to required depth	/	X	
MFWS-110-02	Conformance to lines and grades as per plans and specifications	/	X	
MFWS-110-03	Use of suitable filling materials	/	X	
MFWS-110-04	Conformance to the required compaction as per specifications	/	X	
MFWS-110-05	Unsuitable materials are properly disposed to the approved disposal sites	/	x	
MFWS-110-06	Installed approved surcharge materials, drain materials	/	X	
MFWS-110-07	Provision of drainage for surface run-off	/	X	
		/	X	
Item 111 Dredgi	ng Works		-	
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Majo	r Defects		
MFWS-111-01	Conformance to the dredging limits or areas to be dredged	/	x	
MFWS-111-02	Conformance to the dredged depth as per plans and specifications	/	= X	
MFWS-111-03	Conformance to the appropriate dredging and support equipments as	,	=X	
MFWS-111-04	per specifications  Proper disposal of dredged materials to the designated disposal	,	=X	
Minor	area/site	,	=	
MFWS-111-02	Conformance to the allowable or approved tolerance for dredged depth	/	x	
MFWS-111-05	Marking buoys evident on designated areas to be dredged	/	X	
Item 112 Form V	Vorks			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of I	Major Def	ects	
MFWS-112-01	Conformance to the required type of formworks in accordance with		X	
MFWS-112-02	approved shop/working drawings  Forms coated with mould oil as required	/	X	
MFWS-112-03	Sufficient bracing/support provided	/	x	
MFWS-112-04	No loose knots, splits, cracks, etc.	/	X	
MFWS-112-05	Provision of required concrete or steel spacer	/	x	
MFWS-112-06	Conformance to dimensions, location, plumbness and alignment	/	X	
MFWS-112-07	Provision of camber during construction stage	/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/N	<del></del>	ITEM:	•	
VISIT	for Power Barges  LOCATION:	DATE (	Concrete Wor OF VISIT: / /	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
	rcing Steel Bars (including tendons for Pre/Post-stressed			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Majo	r Defects		
MFWS-113-01	Conformance of in-placed materials accoding to plans & specifications	/	X	
MFWS-113-02	Non-appearance of corrosion on steel reinforcement	/	x	
Minor				
MFWS-113-02	Non-appearance of rust on steel reinforcement	/	X	
MFWS-113-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	X	
MFWS-113-04	No sign of oil, paint and other deleterious materials on reinforcements	/	X	
MFWS-113-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X	
MFWS-113-06	Conformance to the required installation of ducktube e.g. (spacing, location and distance)	/	X	
MFWS-113-07	Conformance to the required steel plate and lock	/	X	
MFWS-113-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	X	
		/	X	
Item 114 Concre	ete Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Majo	r Defects		
MFWS-114-01	No through cracks	/	X	
MFWS-114-02	No honeycomb or spalling (no exposed rabars/aggregates)	/	X	
MFWS-114-03	No chipping off of concrete cover	/	X	
MFWS-114-04	Proper and adequate vibration	/	X	
MFWS-114-05	Conformance to finishing/plastering requirement	/	X	
MFWS-114-06	Conformance to the required concrete cover for rebars	/	X	
MFWS-114-07	Conformance to the batching, mixing, transporting and discharge time requirements	/	X	
MFWS-114-08	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	x	
MFWS-114-09	Conformance to the jointing requirement	/	X	
MFWS-114-10	Proper curing	/	X	
MFWS-114-11	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	X	
MFWS-114-12	Conformance to the required quality of concrete mix	/	=X	
Minor				
MFWS-114-02	No honeycomb or spalling	/	=X	
MFWS-114-13	No sagging or bulging	/	=X	
MFWS-114-14	No water ponding on bearing plates	/	=X	
MFWS-114-15	Conformance to elevation of expansion joints	/	=X	
	rused? If yes, name of company and owner: &		Total Score (a)  No. of Indicators (b)	CAR Total
	<b>~</b>		, ,	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	l

PROJECT ID/N	O.: PROJECT TYPE: Mooring Facilities for Power Barges	ITEM:	Catwalk/Pipin Painting World	_
VISIT	LOCATION:	DATE C	F VISIT: / /	
Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 115 Catwa	lk/Stair Landing/Ladder			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defect	ts .	
MFWS-115-01	Conformance to the correct dimesions as per design and specifications	/	=X	
MFWS-115-02	Conformance to the required number of steps and risers	/	X	
MFWS-115-03	Comformance as to the correct opening of wire mesh and the size of wire and GI Pipe handrails as shown in the drawings and in the specification.	/	X	
Minor	Conformance within the approved/specified tolerance for dimensions		Х	
MFWS-115-01	For reinforced concrete structure: refer to Common Items of	/	= X	
	Work - MFWS 112, 113 and 114	/	=	
		/	=X	
Item 116 Piping	Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	,		
MFWS-116-01	Comformance to the correct alignment, position, location and elevation.	/	=X	
MFWS-116-02	Conformance to the required height and dimensions as indicated in the drawings and specifications.	/	X	
MFWS-116-03	Comformance to the pedestal requirements in accordance with the plans and specifications	/	X	
MFWS-116-04	Conformance to the required number of anchor bolts and their embeddment length as indicated in the drawings and specifications.	/	x	
MFWS-116-05	Comformance to jointing and welding requirements in accordance with the plans and specifications	/	X	
Minor				
MFWS-116-01	Conformance within the approved/specified tolerance for alignment and locations	/	X	
		/	=X	
Item 117 Paintir	ng Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defect	's	
MFWS-117-01	Surface prepared according to specifications	/	X	
MFWS-117-02	Required neutralizers, etc. applied	/	X	
MFWS-117-03	Applied paint appropriate to the surface	/	=X	
MFWS-117-04	Specified number of coats applied	/	=X	
MFWS-117-05	Surfaces evenly painted, proper opacity	/	X	
MFWS-117-06	No discoloration and peeling-off of paint	/	X =	
MFWS-117-07	Paints conform to specification/requirements	1	X	
MFWS-117-08	Surface properly applied with putty/patching compound	/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entored by			=	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/N	<del></del>	ITEM:	Electrical Wo	rks
VISIT	for Power Barges  LOCATION:	DATE C	OF VISIT: / /	
	<del></del>	2,2	,, ,,	
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50		-	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 118 Electri	cal Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defect	S	
MFWS-118-01	Conduits installed according to plans and laid out according to approved construction drawings	/	X	
MFWS-118-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	=x	
MFWS-118-03	Pipes properly bended	/	=X	
MFWS-118-04	Allowable number of wires in a pipe properly observed	/	X	
MFWS-118-05	Splicing and connection provided with adequate rubber and pvc tapes	/	=X	
MFWS-118-06	Adequate length of wire provided for termination and splicing	/	=X	
MFWS-118-07	Wire color coding complied and observed	/	=x	
MFWS-118-08	Wire insulation not damaged during pulling	/	X	
MFWS-118-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	X	
MFWS-118-10	Boxes and enclosures provided according to intended purpose	/	=X	
MFWS-118-11	Fittings and accessories provided and properly installed	/	=X	
MFWS-118-12	Block-outs and sleeves provided and properly secured	/	=X	
MFWS-118-13	Cable ties provided	/	=X	
MFWS-118-14	Blank covers provided for outlets and switches that are not utilized	/	=X	
MFWS-118-15	Use of tools and equipment properly observed	/	X	
MFWS-118-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	=x	
MFWS-118-17	Meager, clamp, phase sequence tests and load test conducted	/	=X	
MFWS-118-18	Shop drawings, as-built plan maintained	/	=x	
		/	=X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
			=	

PROJECT ID/N		ITEM:	Grounding Sy	ystem
VISIT	for Power Barges  LOCATION:	DATE C	OF VISIT: / /	,
Factor : "During (	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 119 Groun	ding System			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defect	S	
MFWS-119-01	Installed according to approved plans and specifications	/	X	
MFWS-119-02	Grounding connections are properly welded/bolted	/	X	
MFWS-119-03	Conducted and passed all required ground resistance tests.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate =	
				•

## ANNEX 2-J

### **CHECKLIST FOR SITE DEVELOPMENT**

Item 100	Clearing and Grubbing	2J-1
Item 101	Excavation	2J-1
Item 102	Earthfill	2J-1
Item 103	Planting of Trees and Shrubs	2J-1
Item 200	Formworks	2J-2
Item 201	Reinforcing Steel Bars (Including Tendons for Pre/	2J-2
	Post-stressed Concrete	
Item 300	Concrete Works	2J-3
Item 301	CHB Wall	2J-4
Item 400	Paver Blocks/Concrete Blocks	2J-5
Item 401	stamped Concrete	2J-5
Item 402	Grass Pavers	2J-5
Item 403	Trowelled Finish/Broomed Finish	2J-6
Item 404	Pebble Wash-out	2J-6
Item 405	Decorative Boulders	2J-6
Item 406	Garden Tile/Stone Finish	2J-7
Item 407	Wall Bricks/Stone Finish	2J-7
Item 408	Plaster Finish	2J-7
Item 409	Cladding	2J-7
Item 500	Painting	
2J-8		
Item 600	Play Facilities	2J-9
Item 601	Trellis/Gazebo	2J-9
Item 602	Moulding/Moulding Strips	2J-9
Item 603	Entrance Gate	2J-10
Item 604	Park Fence	2J-10
Item 605	Railings	2J-10
Item 700	Plumbing	2J-11
Item 701	Sanitary	2J-11
Item 800	Electrical Works	2J-12
Item 900	Pipe Culvert and Storm Drain	2J-13
Item 901	Manhole, Inlets and Catch Basin	2J-13

	CPES CHECKLIST FOR WORKMANS	НІР		
PROJECT ID	/NO.: PROJECT TYPE: Site Development		ITEM:	
VISIT LOCATION/LOT:			DATE OF VIS	SIT: / /
Factor : "Durin	g Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 100 Cleari	ng and Grubbing			
SDWS-100-02	Conformance to the approved/specified tolerance for extent of clearing and grubbing work.	/	X	
		/	=X	
Item 101 Excav	ation			
SDWS-101-01	Conformance to the approved/specified tolerances for lines, grades, dimensions, elevations	/	X	
SDWS-101-02	Conformance to the excavation support systems, e.g. angle of repose, bracing, shoring, sheet piling	/	X	
Item 102 Earth	fill			
SDWS-102-01	Conformance of in-placed materials to plans and specifications	/	X	
SDWS-102-02	Conformance to the required thickness of fill or backfill per layer	/	X	
SDWS-102-03	Conformance to the required density or degree of compaction	/	X	
Item 103 Plant	ing of Trees and Shrubs			
SDWS-103-01	Conformance to the specified plant specie, variety and culture.	/	X	
SDWS-103-02	Conformance to the specified topsoil/ garden soil and other soil mixtures and fertilizers.	/	X	
SDWS-103-03	Conformance to the required/ specified supports (e.g. stakes, guy wires, temporary fence, etc.)	/	X	
SDWS-103-04	Conformance to the specified quantity, spacings and minimum size (during delivery and nursery stage).	/	X	
SDWS-103-05	Conformance to the specified planting methodology and handling.	/	X	
SDWS-103-06	Plants are free of damages, disease, insect pests and dying	/	x	

Was subcontractor used	? If yes, name of company and owne	er:	Total Score (a) =	CAR Total
	<u> </u>		No. of Indicators (b	J)
Entered by:	<del></del>	Date: / /	Rate= (a) / (b)	
			Rate	1

branches, leaves and branch tips).

PROJECT ID/NO.:	PROJECT TYPE: Site Development	ITEM: Common Items of Work
VISIT	LOCATION:	DATE OF VISIT: //

Factor : "Durin	g Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 200 Form	works			
SDWS-200-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X =	
SDWS-200-02	Forms coated with mould oil as required	/	X	
SDWS-200-03	Sufficient bracing/support provided	/	X	
SDWS-200-04	No loose knots, splits, cracks, etc.	/	X	
SDWS-200-05	Provision of required concrete or steel spacer	/	X	
SDWS-200-06	Conformance to dimensions, location, plumbness and alignment	/	X =	
SDWS-200-07	No use of dilapidated/salvage forms (use more than 3x)	/	X	
		/	X	
		/	X	
Item 201 Reinfo Stressed conci	orcing Steel Bars (including tendons for Pre/Post- rete)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Def	fects	
SDWS-201-01	Conformance of in-placed materials to plans & specifications	/	X	
SDWS-201-02	Non-appearance of corrosion on steel reinforcement	/	X	
Minor				
SDWS-201-02	Non-appearance of rust on steel reinforcement	/	X	
SDWS-201-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	X	
SDWS-201-04	No sign of oil, paint and other deleterious materials on reinforcements	/	X	
SDWS-201-05	Conformance to jointing requirement, i.e.splicing, welding, etc.	/	X	
SDWS-201-06	Conformance to proper bending of stirrups	/	X	
		/	X	
		/	X	
Was subcontrac	ctor used? If yes, name of company and owner:	-	Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

	CPES CHECKLIST FOR WORKMANS	SHIP		
PROJECT ID/I	·	ITEM: C	ommon Items o	of Work
Factor : "Durin	g Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 300 Conci	rete Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
SDWS-300-01	No through cracks	/	X	
SDWS-300-02	No honeycomb (no exposed rebars/aggregates)	/	X	
SDWS-300-03	No sagging or bulging (if tolerance exceeded)	/	X	
SDWS-300-04	Conformance to required quality of concrete mix	/	X	
Minor				
SDWS-300-01	No cracks	/	X	
SDWS-300-02	No honeycomb	/	X	
SDWS-300-03	No sagging or bulging	/	X	
SDWS-300-05	Proper and adequate vibration	/	X	
SDWS-300-06	Conformance to finishing/plastering requirement	/	X	
SDWS-300-07	No chipping off of concrete cover	/	X	
SDWS-300-08	Conformance to the required concrete cover for rebars	/	X	
SDWS-300-09	Conformance to the batching, mixing, transporting and discharge time requirements	/	X	
SDWS-300-10	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	X	
SDWS-300-11	Conformance to the jointing requirement	/	X	
SDWS-300-12	Proper curing	/	X	
SDWS-300-13	Conformance to required dimensions, lines, grades/elevation, and location	/	X	
		/	X	
		/	X	
Was subcontrac	ctor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No of Indicators (b)	

Date: / /

Rate = (a) / (b)

Rate

Entered by:\_\_\_\_\_

PROJECT ID/NO.:	PROJECT TYPE: Site Development LOCATION:	ITEM: Masonry W DATE OF VISIT:			
Factor : "During Construction" = 0.40; "Upon Completion" = 0.50					

ractor . During	g construction = 0.40, opon completion = 0.50			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 301 CHB V	Vall			
Major				
SDWS-301-01	Conformance to required quality of CHB	/	X	
SDWS-301-02	Conformance to required quality of mortar mix	/	X	
Minor				
SDWS-301-03	Conformance to specified tolerances for dimension, location, plumbness and alignment	/	X =	
SDWS-301-04	Proper spacing of horizontal and vertical bars	/	X	
SDWS-301-05	Rebars used free from corrosion	/	X	
		/	X	
		/	X	
		/	X	
	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
&		_	No. of Indicators (b)	
Entered by: Date: / /			Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.:	PROJECT TYPE: Site Development	ITEM:
VISIT	LOCATION:	DATE OF VISIT: //

. actor . During	g Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 400 Paver	Blocks/ Concrete Blocks			
SDWS-400-01	Installed blocks free from chipping, cracks or any form of damages and discoloration.	/	X	
SDWS-400-02	Conformance to specified sand bedding or compacted soil or base course.	/	X	
SDWS-400-03	Joints are perfectly aligned and consistent	/	X	
SDWS-400-04	Blocks are evenly levelled to a tolerable extent	/	X	
SDWS-400-05	Conformance to specified perforation and water absorption method.	/	X	
SDWS-400-06	Block color are consistent with each other.	/	X	
		/	X	
ltem 401 Stamp	ped Concrete			
SDWS-401-01	Adherence to the methodology and preparation.	/	X	
SDWS-401-02	Conformance with the design layout, pattern and color scheme.	/	X	
SDWS-401-03	Conformance with the specified compaction and base course.	/	X	
SDWS-401-04	Free from any form of damages	/	X	
SDWS-401-05	Concrete material conform to specification and mixture/ proportion as per plan.	/	X	
		/	X	
Item 402 Grass	Pavers			
SDWS-402-01	Installed pavers free from chipping, cracks or any form of damages and discoloration.	/	X	
SDWS-402-02	Conformance to specified sand bedding or compacted soil or base course.	/	X	
SDWS-402-03	Joints are perfectly aligned and consistent	/	X	
SDWS-402-04	Pavers are evenly levelled to a tollerable extent	/	X	
SDWS-402-05	Pavers color are consistent with each other	/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Site Development	ITEM:	
VISIT	LOCATION:	DATE OF VISIT:	/ /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 403 Trowe	elled Finish/ Broomed Finish			
SDWS-403-01	Aherence to the desired roughness and consistency specified design pattern.	/	X	
SDWS-403-02	No cracks, discoloration and any form of damages.	/	X	
SDWS-403-03	No sign of deflection/settlement/ water ponding.	/	X	
SDWS-403-04	Adherence to the specified/ approved sand/ gravel base or subbase course.	/	X = X	
		/	=	
tem 404 Pebbl				
SDWS-404-01	Installed pebbles are evenly distributed and selected according to size and color.	/	X	
SDWS-404-02	No cracks, discoloration and any form of damages.	/	X	
SDWS-404-03	Installed pebbles surface are thoroughly clean from cement or grout stains.	/	X	
		/	X =	
		/	=X	
tem 405 Decor	ative Boulders			
SDWS-405-01	Conforms to approved/specified size, shape and color/ shade according to plan.	/	X	
SDWS-405-02	Conforms to the approved design scheme/layout/pattern.	/	X	
SDWS-405-03	No cracks, chipping-off or any form of damages.	/	X	
SDWS-405-04	Correctly installed and put in place with stability, free of any movement.	/	X	
		1	X	
		,	=	
_		/	= X =	
		/	= x = x =	_
		·	=	
	etor used? If yes, name of company and owner:	1	=X =X =Total Score (a) =	CAR Total
	etor used? If yes, name of company and owner: & Date: / /	1	= X = X = X	CAR Total

PROJECT ID/NO.:	PROJECT TYPE: Site Development	ITEM:	
VISIT	LOCATION:	DATE OF VISIT:	/ /

. actor . During	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the	Results	Score x factor	Action Monitor
Item 406 Garde	n Tile/ Stone Finish			
SDWS-406-01	Installed tiles free from chipping, cracks or any form of damages	/	X	
SDWS-406-02	Joints are perfectly aligned and consistent with skirting tiles.	/	X	
SDWS-406-03	Tiles are evenly placed/layed according to specified design pattern and color sheme.	/	X	
SDWS-406-04	Installed tiles are true to alignment and properly levelled.	/	X	
SDWS-406-05	Adherence to the specified/ approved sand/ gravel base or subbase course.	/	X	
		/	X =	
Item 407 Wall E	Bricks/ Stone Finish			
SDWS-407-01	Smooth and evenly bonded to wall.	/	X	
SDWS-407-02	Free from cracks, chips, stains, discoloration and any form of damages.	/	X	
SDWS-407-03	Installed according to specified size, shape, color/ shade type and design pattern.	/	X	
Item 408 Plaste	er Finish			
SDWS-408-01	Conformance to designed mixture of plastering materials.	/	X	
SDWS-408-02	Conformance to specified method of application and thickness.	/	X	
SDWS-408-03	True to alignment, plumbness and smoothness.	/	X	
SDWS-408-04	Free from any form of damages e.g. cracks, peeled-off plaster finish	/	X	
Item 409 Clado	ling			
SDWS-409-01	Panels properly anchored/ bonded to wall.	/	X	
SDWS-409-02	True to alignment, plumbness and smoothness.	/	X	
SDWS-409-03	Free from any form of damages	/	X	
SDWS-409-04	Panels conforms to construction procedure/ methodology.	/	X	
	tor used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
		_	Rate = (a) / (b) = Rate =	

	CPES CHECKLIST FOR WORKMANS	SHIP		
PROJECT ID/N	NO.: PROJECT TYPE: Site Development LOCATION:	ITEM: DATE OF	VISIT: //	
Factor : "During	g Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS		Score	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monitor
Item 500 Painti	ng			
SDWS-500-01	Surface prepared according to paint specification.	/	X	
SDWS-500-02	Required neutralizers, and paint preparation materials applied.	/	X	
SDWS-500-03	Surface are properly applied with putty/patching compound.	/	X	
SDWS-500-04	Applied paint appropriate to the surface.	/	X	
SDWS-500-05	Specified number of coats applied.	/	X	
SDWS-500-06	Surfaces evenly painted, proper opacity.	/	x	
SDWS-500-07	No discoloration and peeling-off of paint.	/	x	
SDWS-500-08	Paints conform to specification as to type and color.	/	x	
		/	X	
		/	x	
		/	X	
		/	X	
		/	x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	x	

			/	= X	
			/	X	
			/	X	
			/	x	
			/	x	
	or used? If yes, name of company and	d owner:	_	Total Score (a)  =  No. of Indicators (b)	CAR Total
Entered by:		Date: / /		Rate = (a) / (b) = Rate =	
	21	-8			

PROJECT NO.:	PROJECT TYPE: Site Development	ITEM:	
VISIT	LOCATION:	DATE OF VISIT:	/ /

ractor: Baring	g concaracation = 0.40; open completion = 0.00			
Sub-item Code	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 600 Play Fa	acilities			
SDWS-600-01	Conformance to the specified type, dimensions, quantities, color, etc. accoring to plans.	/	X	
SDWS-600-02	Installed/ fixed in place according to plan.	/	X	
SDWS-600-03	Free from any form of unsafe and dangerous connections, installations, etc.	/	X	
SDWS-600-04	Free from any form of damages.	/	X	
		/	X	
		/	X	
Item 601 Trellis	/ Gazebo			
SDWS-601-01	Conformance to the specified type, dimensions, quantities, color, etc. accoring to plans.	/	X	
SDWS-601-02	Installed/ fixed in place according to plan.	/	X	
SDWS-601-03	Free from any form of unsafe and dangerous connections, installations, etc.	/	X	
SDWS-601-04	Free from any form of damages.	/	X	
		/	X	
		/	X	
Item 602 Mould	ing/ Moulding Strips			
SDWS-602-01	True to size, design profile, color, texture, material, elevation and alignment.	/	X	
SDWS-602-02	Installed materials are free from any form of damages	/	X	
		/	X	
		/	X	
		/	X	
_		/	X	_
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT NO.:	PROJECT TYPE: Site Development	ITEM:	
VISIT	LOCATION:	DATE OF VISIT:	/ /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 603 Entra	nce Gate			
SDWS-603-01	True to alignment, plumbness in conformance to the approved/specified tolerance	/	X	
SDWS-603-02	Gates are properly fixed to wall or posts and are wellded or fastened accordingly.	/	X	
SDWS-603-03	Gate accessories installed according to plans, e.g. locksets, hinges	/	X	
SDWS-603-04	Free from any form of damages	/	X	
SDWS-603-05	Gate conforms to specification requirements as to material, dimensions and design motiff according to plans.	/	X	
		/	X =	
Item 604 Park I	Fence			
SDWS-604-01	True to alignment, plumbness in conformance to the approved/specified tolerance	/	X	
SDWS-604-02	Fences are properly fixed to wall or posts and are wellded or fastened accordingly.	/	X	
SDWS-604-03	Fence accessories installed according to plans.	/	X	
SDWS-604-04	Free from any form of damage	/	X	
SDWS-604-05	Fence conforms to specification requirements as to material, dimensions and design motiff according to plans.	/	X	
		/	X =	
ltem 605 Railin	gs			
SDWS-605-01	Installed according to plans	/	X	
SDWS-605-02	Free from dents, scratches or any form of damage	/	X	
SDWS-605-03	Bends and curves are smooth	/	X	
SDWS-605-04	Conforms to approved tolerance size, dimension, height and type e.g. concrete, steel, stainless, aluminum, etc.	/	X	
SDWS-605-05	Safely and rigidly fixed to walls, post or floors.	/	X	
		/	X	
	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.:	_ PROJECT TYPE: Site Development	ITEM: Basic Services
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "Durin	g Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 700 Plumb	ping			
SDWS-700-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports	/	X	
SDWS-700-02	Conducted and passed the required leak test	/	X	
SDWS-700-03	Pipes not clogged	/	X	
SDWS-700-04	Free from any form of damages	/	X	
SDWS-700-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location	/	X	
SDWS-700-06	Adhesive conform to specification	/	X	
SDWS-700-07	Water closet, lavatory conform to specification	/	X	
		/	X	
		/	X	
Item 701 Sanit	ary			
SDWS-701-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports	/	X	
SDWS-701-02	Conducted and passed the required pressure/leak test	/	X	
SDWS-701-03	Pipes not clogged	/	X	
SDWS-701-04	Free from any form of damages	/	X	
SDWS-701-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location	/	X	
SDWS-701-06	Adhesive conforms to specification	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
		-	No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	
			F	

PROJECT ID/NO.:	PROJECT TYPE: Site Develoment	ITEM: Electrical	
VISIT	LOCATION:	DATE OF VISIT:	/ /

Factor: "During Construction	n" = 0.40; "Upon Completion" = 0	).50
------------------------------	----------------------------------	------

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 800 Electi	rical Works			
SDWS-800-01	Pipes installed according to plans and laid out according to approved construction drawings	/	X	
SDWS-800-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	X	
SDWS-800-03	Pipes properly bended	/	X	
SDWS-800-04	Allowable number of wires in a pipe properly observed	/	X	
SDWS-800-05	Splicing and connection provided with adequate rubber and pvc tapes	/	X	
SDWS-800-06	Adequate length of wire provided for termination and splicing	/	X	
SDWS-800-07	Wire color coding complied and observed	/	X	
SDWS-800-08	Wire insulation not damaged during pulling	/	X	
SDWS-800-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	X	
SDWS-800-10	Boxes and enclosures provided according to intended purpose	/	X	
SDWS-800-11	Fittings and accessories provided and properly installed	/	X	
SDWS-800-12	Block-outs and sleeves provided and properly secured	/	X	
SDWS-800-13	Cable ties provided	/	X	
SDWS-800-14	Blank covers provided for outlets and switches that are not utilized	/	=x	
SDWS-800-15	Use of tools and equipment properly observed	/	x	
SDWS-800-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	X	
SDWS-800-17	Meager, clamp, phase sequence tests and load test conducted	/	X	
SDWS-800-18	Shop drawings, as-built plan maintained	/	x	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	

PROJECT ID/NO.:	PROJECT TYPE: Site Develoment	ITEM: Sewer & Drainage System
VISIT	LOCATION:	DATE OF VISIT: //

g Construction" = 0.40; "Upon Completion" = 0.50			
INDICATORS		0	
Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monitor
Culvert and Storm Drain			
Bedding and backfill materials compacted to the required density	/	x	
Proper jointing of pipes	/	X	
Mortar for jointing of reinforced concrete culvert pipes conforms to specified mixture type	/	x	
Adequate collaring of reinforced concrete culvert pipes	/	X	
Conformance to the approved/specified tolerance for elevation, slope, and alignment	/	x	
Cracks, honeycomb, chipping-off within specified tolerances	/	X	
Sufficient collaring & flushing	/	x	
Conformance to the approved quality of concrete mix	/	X	
Spacing and sizes of rebars conform to specification	/	=X	
	/	X	
oles, Inlets and Catch Basin			
Conformance to approved/specified tolerances for dimensions, elevations	/	X	
Covers and gratings well fitted and can easily be opened during maintenance work	/	X	
Honeycomb, cracks, spalling, etc. within specified tolerance	/	X	
Conformance to approved quality of concrete mix	/	x	
Spacing and sizes of rebars conform to specification	/	X	
	/	X	
	/	X	
	/	X	
	/	X	
tor(s) used? If yes, name of company(ies) and sub-item:		Total Score (a)	CAR Total
		No. of Indicators (b) =	
Date: / /		Rate = (a) / (b) =	
		Rate	
	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than lifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).  Gulvert and Storm Drain  Bedding and backfill materials compacted to the required density  Proper jointing of pipes  Mortar for jointing of reinforced concrete culvert pipes conforms to specified mixture type  Adequate collaring of reinforced concrete culvert pipes  Conformance to the approved/specified tolerance for elevation, slope, and alignment  Cracks, honeycomb, chipping-off within specified tolerances  Sufficient collaring & flushing  Conformance to the approved quality of concrete mix  Spacing and sizes of rebars conform to specification  Dies, Inlets and Catch Basin  Conformance to approved/specified tolerances for dimensions, elevations  Covers and gratings well fitted and can easily be opened during maintenance work  Honeycomb, cracks, spalling, etc. within specified tolerance  Conformance to approved quality of concrete mix  Spacing and sizes of rebars conform to specification	INDICATORS  Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).  Sulvert and Storm Drain  Bedding and backfill materials compacted to the required density  Proper jointing of pipes  Mortar for jointing of reinforced concrete culvert pipes conforms to specified mixture type  Adequate collaring of reinforced concrete culvert pipes  Conformance to the approved/specified tolerance for elevation, slope, and alignment  Cracks, honeycomb, chipping-off within specified tolerances  Sufficient collaring & flushing  Conformance to the approved quality of concrete mix  Spacing and sizes of rebars conform to specification  //  Dies, Inlets and Catch Basin  Conformance to approved/specified tolerances for dimensions, elevations  Covers and gratings well fitted and can easily be opened during maintenance work  Honeycomb, cracks, spalling, etc. within specification  //  //  Spacing and sizes of rebars conform to specification  //  Conformance to approved quality of concrete mix  //  Spacing and sizes of rebars conform to specification  //  Conformance to approved quality of concrete mix  //  Spacing and sizes of rebars conform to specification  //  //  //  //  //  //  //  //  //	INDICATORS  Note: Spots with a single major detect shall forfiel all points for the rest of the indicators in the said spot. Farther, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific mem of work is zero (b).  Zulvert and Storm Drain  Bedding and backfill materials compacted to the required density  Proper jointing of pipes  Mortar for jointing of reinforced concrete culvert pipes  conforms to specified mixture type  Adequate collaring of reinforced concrete culvert pipes  Conformance to the approved/specified tolerance for elevation, slope, and alignment  Cracks, honeycomb, chipping-off within specified tolerances  Sufficient collaring & flushing  Conformance to the approved quality of concrete mix  Spacing and sizes of rebars conform to specification  Jesus Inlets and Catch Basin  Conformance to approved/specified tolerances for dimensions, elevations  Covers and gratings well fitted and can easily be opened during maintenance work  Honeycomb, cracks, spalling, etc. within specified tolerance  Conformance to approved quality of concrete mix  Spacing and sizes of rebars conform to specification  Jesus Alexandra, and a size of rebars conform to specification  Covers and gratings well fitted and can easily be opened during maintenance work  Honeycomb, cracks, spalling, etc. within specified tolerance  Conformance to approved quality of concrete mix  Spacing and sizes of rebars conform to specification  Jesus Alexandra, and a size of rebars conform to specification  Total Score (a)  Conformance to approved specified tolerance  Total Score (a)  No. of Indicators (b)  Results  Alexandra  Score  X

# ANNEX 3 CHECKLIST FOR MATERIALS

## CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR MATERIALS

PROJECT II	D/NO.: PROJECT TYPE:		ITEM:	
Visit	DATE OF VISIT: / /			
	ng Construction" = 0.30; "Upon Completion" = 0.20		_	•
Sub-item	INDICATORS	Results	Score	Action
Code	Note: If constructor complied with indicator #1, all indicators should be rated			Monitor
	Materials complied and passed test requirements with		Х	
MAT01	Philippine National Standard (PNS)/Import Commodity	1 or 0	=	
	Certificate (ICC) and/or specified type/class/brand			
MAT 00	Materials are correctly stored and handled to prevent damage,	1 0 " 0	Х	
		1 or 0	=	
	Non-conforming materials are identified and segregated against		Х	
		1 or 0	=	
	Evidence is supplied to verify that specified materials were used in the project		х	
MAT04	in the project	1 or 0		
	Materials records are clearly legible, complete, traceable to		x	
MAT05	project and readily available	1 or 0	^	
	project and readily available			
			Х	
			=	
			Х	
			=	
			Х	
			=	
			Х	
			=	
			Х	
			=	
			х	
			=	
			Total Score (a)	
Was subcontra	actor used? If yes, name of company and owner:		rotal ocole (a)	
	&		No. of Indicators (	'h\
	α		No. of indicators (	<b>i</b>
Entered by:	Date: / /		(a) / (b) =	
, -	<del></del>			
			Rate =	1
				4

NOTE: 1. If constructor does not comply with Indicator #1, the remaining four (4) indicators shall also be evaluated for CAR/PAR purposes but the final rating is automatically zero (0).

2. Please fill-up the blank spaces in the code corresponding to the item number of work being evaluated.

# ANNEX 4 CHECKLIST FOR TIME

## CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR TIME (During Construction)

PROJECT ID/NO.:		PRO	PROJECT TYPE:		
\	/ISIT	DATI	E OF VISIT:	′ /	
	•		15 "		
Sub-item Code	-	INDICATORS	Results	Score	Action Monitor
TME-I-01	On or ahead of	f schedule per approved Bar chart & S-cu	urve	0.15	Wichitor
	With less than	15% negative slippage			
TME-I-02	Formula: Score	e = 15% - Slippage =%			
TME-I-03	With negative	slippage of 15% or more		0.00	
	•	es, name of company and owner:		Rate =	
		&			
Entered b	y:	Date	: / /		
	DELAY FAULT	OF:Constructor	Project Owner	Others	<b>;</b>
	CAUSES OF D	DELAY (Please indicate codes as listed b	oelow):		
	Constructor-rel	ated Problems			
	C-WO1	Insufficient manpower deployed in			
	C-EO1	Breakdown of equipment/equipme	•		
	C-EO2	Lack/Insufficient/Inadequate equip Lack/Inadequate/Insufficient supp	oment deployed in p	oroject site	
	C-MO1 C-RO1	Lack/madequate/insumcient supp	ly of construction if	iateriais	
	Agency-related	d Problems			
	A-VO1	Delays in the approval of variation	o ordore		
	A-TO1	Delays in the approval of variation			
	A-SO1	Delays in the approval of suspens			
	A-DO1	Changes in construction designs	non order		
	A-FO1	Delays in the releases of funds			
	A-RO1	Right-of-Way (ROW) acquisition p	roblem (squatter re	elocation prob	lems
	7(10)	relocation of utilities, i.e. PLDT,			
	A-PO1	Delays in acquisition of necessary			,
	Other-related F	Problems			
	O-WO1	Unfavorable weather condition (or			occurrence
	O-PO1	of flooding/siltation on site; unw Insurgence or peace and order pro	_		
	0-F01 0-T01	Third party intervention	บอเซเทอ/บเขท นเอเนเม	unioco	
		- 17			

Note: In rating time, only delays that are attributable to the constructor should be reflected in the rating

## CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR TIME (Upon Completion)

PROJECT TYPE:\_\_\_\_\_

PROJECT ID/NO.: \_\_\_\_\_

FINAL VIS	SIT	D	ATE OF V	ISIT: /	/	
Sub-item Code	-	NDICATORS		Results	Score	Action Monito
TME-F-01	On or ahead of sche	edule per approved Bar Chart &	S-Curve		0.30	
TME-F-02	With less than 10%					
	Formula: Score = [	(10% - Slippage) x 0.30]/10				
TME-F-03	With negative slipp	page of 10% or more			0.00	
					Rate =	
	tractor used? If yes, r	name of company and owner: &				
Entered by	/:	D	ate: / /			
	DELAY FAULT OF:	Constructor	Project (	Owner _	Others	
	CAUSES OF DELA	Y (Please indicate codes as list	ed below):			
	Constructor-related	Problems				
	C-WO1 C-EO1 C-EO2 C-MO1 C-RO1	Insufficient manpower deployed Breakdown of equipment/equit Lack/Insufficient/Inadequate et Lack/Inadequate/Insufficient st Lack of financial resources	pment not op equipment de	erational ployed in p	•	
	Agency-related Prob	olems				
	A-VO1 A-TO1 A-SO1 A-DO1 A-FO1 A-PO1	Delays in the approval of variad Delays in the approval of conton Delays in the approval of susp Changes in construction design Delays in the releases of fund Right-of-Way (ROW) acquisiting relocation of utilities, i.e. PLD Delays in acquisition of necess	ract time extended to the common order to the	r squatter rel		
	Other-related Proble	ems				
	O-WO1	Unfavorable weather condition occurrence of flooding/siltation				on)
	O-PO1 O-TO1	Insurgence or peace and orde Third party intervention		-		

Note: In rating time, only delays that are attributable to the constructor should be reflected in the rating

#### CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST

#### FOR TIME (During Construction - for contracts with no materials or materials are supplied by the owner)

PROJECT ID/NO.: VISIT		PROJECT T DATE OF VI	TYPE:/ISIT: / /				
Sub-item Code		INDICATORS		Results	Score	Action Monitor	
TME-I-01	On or ahead of sch	nedule per approved Bar cha	rt & S-Curve		0.20		
TME-I-02		negative slippage (15% - Slippage) x 0.20]/15					
TME-I-03	With negative slipp	page of 15% or more			0.00		
		name of company and owner:			Rate =		
Entered by	:		Date: / /				
	DELAY FAULT OF:	Constructor	Project C	Owner .	Others		
	CAUSES OF DELA	Y (Please indicate codes as lis	sted below):				
	Constructor-related	Problems					
	C-WO1 C-EO1 C-EO2 C-MO1 C-RO1	Insufficient manpower deploy Breakdown of equipment/equack/Insufficient/Inadequate Lack/Inadequate/Insufficient Lack of financial resources	uipment not op equipment de	erational ployed in p			
	Agency-related Prol	olems					
	A-VO1 A-TO1 A-SO1 A-DO1 A-FO1 A-RO1	Delays in the approval of var Delays in the approval of con Delays in the approval of sus Changes in construction des Delays in the releases of fun Right-of-Way (ROW) acquisi relocation of utilities, i.e. F Delays in acquisition of neces	ntract time extended spension order igns ids ition problem (see PLDT, MERALO	squatter re			

Note: In rating time, only delays that are attributable to the constructor should be reflected in the rating

Third party intervention

Other-related Problems

O-WO1

O-P01

O-TO1

Unfavorable weather condition (occurrence of natural calamities; occurrence

of flooding/siltation on site; unworkable ground condition)

Insurgence or peace and order problems/civil disturbances

#### CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST

PROJECT ID/NO.: \_\_\_\_\_

## FOR TIME (Upon Completion - for contracts with no materials or materials are supplied by the owner)

PROJECT TYPE:\_\_\_\_

FINAL VIS	SIT	DAT	E OF VISIT:	/	
Sub-item Code	-	NDICATORS	Results	Score	Action Monitor
TME-F-01	On or ahead of sch Curve	edule per approved Bar Chart &	S-	0.50	Wiorintor
	With loss than 100/	nagativa dinnaga			
TME-F-02		negative slippage (10% - Slippage) x 0.50]/10			
TME-F-03	With negative slipp	age of 10% or more		0.00	
				Rate =	
		name of company and owner:			
Entered by	/:	Date	e: / /		
	DELAY FAULT OF:	Constructor	_Project Owner	Others	
	CAUSES OF DELA	Y (Please indicate codes as listed l	below):		
	Constructor-related	Problems			
	C-WO1 C-EO1 C-EO2 C-MO1 C-RO1	Insufficient manpower deployed in Breakdown of equipment/equipment/locate and Lack/Insufficient/Inadequate equition Lack/Inadequate/Insufficient supplicate of financial resources	ent not operational pment deployed in p		
	Agency-related Prob	olems			
	A-VO1 A-TO1 A-SO1 A-DO1 A-FO1 A-RO1	Delays in the approval of variation Delays in the approval of contract Delays in the approval of suspensions of construction designs Delays in the releases of funds Right-of-Way (ROW) acquisition prelocation of utilities, i.e. PLDT, No Delays in acquisition of necessar	t time extension sion order problem (squatter re MERALCO posts an	•	
	Other-related Proble	•			
	O-WO1	Unfavorable weather condition (o occurrence of flooding/siltation o	n site; unworkable g	round conditi	on)
	O-PO1 O-TO1	Insurgence or peace and order property intervention	odiems/civil disturb	ances	

Note: In rating time, only delays that are attributable to the constructor should be reflected in the rating

# ANNEX 5 CHECKLIST FOR FACILITIES

### CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR FACILITIES

	I OK I ACILITIES			
PROJECT	ID/NO.: PROJECT TYPE:			
Vi	sit DATE OF VISIT: /	/		
Sub-item Code	INDICATORS *Note: Select indicators which are applicable.	Results	Score	Action Monitor
FAC-01	Adequate and efficient testing equipment were set-up prior to actual start of the project.	1 or 0	x.0.03	
FAC-02	Adequate and efficient surveying equipment were set-up prior to actual start of the project.	1 or 0	x.0.03 =	
FAC-03	Adequate transportation facilities were provided.	1 or 0	x.0.03	
FAC-04	Provision and maintenance of signboards, camp facilities and/or field and on-site office facilities.	1 or 0	x.0.03	
FAC-05	Provision of appliances, utensils and other items as may be required in the contract.	1 or 0	x.0.03	

FAC-01	Adequate and emolent testing equipment were set up phot	1 or 0	λ.0.00	
17.0 01	to actual start of the project.	1 01 0	=	
EAC 00	Adequate and efficient surveying equipment were set-up	1 0 " 0	x.0.03	
FAC-02	prior to actual start of the project.	1 or 0	=	
	Adequate transportation facilities were provided.		x.0.03	
FAC-03	Adequate transportation racinites were provided.	1 or 0	λ.0.00	
	Desired and the state of the least to the state of the st		0.00	
FAC-04	Provision and maintenance of signboards, camp facilities	1 or 0	x.0.03	
	and/or field and on-site office facilities.		=	
FAC-05	Provision of appliances, utensils and other items as may	1 or 0	x.0.03	
170-03	be required in the contract.	1 0	=	
			Total Score (a)	
Was subcont	ractor used? If yes, name of company and owner:		, ,	
	&		No. of Indicators (b	)
			11 11 11 11 11 11 11 11 11	
Entored by	: Date: / /		(-) ((-)	
Linered by	: Date: / /		(a) / (b) =	
				1
			Rate =	
				i

### ANNEX 6

# CHECKLIST FOR ENVIRONMENTAL, SAFETY AND HEALTH

## CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR ENVIRONMENTAL, SAFETY AND HEALTH

PROJECT ID/NO.:	PROJECT TYPE:
VISIT	DATE OF VISIT: / /

	INDICATORS*	Results	Score	Action
Code	* Note: Select indicators which are applicable.			Monitor
Environment	al			
ESH-100-01	Waste materials are collected, stored and transported to	1 or 0	x 0.07	
	approved dumps/disposal area.	. 0. 0	=	
ESH-100-02	Construction activities are carried out in specific time of the	1 or 0	x 0.07	
2011 100 02	day as approved by local officials	1 01 0	=	
ESH-100-03	Compliance to Environmental Clearance Certificate	1 or 0	x 0.07	
2011-100-03	requirements.	1 01 0	=	
Safety and H	ealth			
SH-200-01	Safety and Health program approved by DOLE/Implementing	4 0 7 0	x 0.07	
=SH-200-01	Office (IO).	1 or 0	=	
	Safety and Health committee established and maintained in		x 0.07	
ESH-200-02	accordance with Rule 1410 of Occupational Safety and	1 or 0		
	Health Standards.		=	
	Certified/Qualified Safety and Health personnel employed		x 0.07	
ESH-200-03	and detailed at site.	1 or 0	=	
	Appropriate personal protective equipment (e.g. helmets,		x 0.07	
SH-200-04	safety shoes, safety belt/lifeline, eye protection, ear plug,	1 or 0	_ X 0.07	
200 04	dust mask, etc.) provided and worn by all workers/staff.	1 01 0	_	
	Heavy equipment operated by certified/qualified operators		x 0.07	
ESH-200-05	only.	1 or 0	_ X 0.07	
	Critical construction work done by certified/qualified skilled		x 0.07	
ESH-200-06	workers only.	1 or 0	X 0.07	
	Heavy equipment are tested and certified to be in good	1 or 0	x 0.07	
ESH-200-07		1 01 0		
	running condition.		=	
	Safety practices and procedures in general construction	_	v 0 07	
ESH-200-08	observed and implemented at construction site (electrical,	1 or 0	x 0.07	
	fire protection, lighting, construction of safe walkways,	_	=	
	protection from falling materials, shoring, scaffolding, etc.).			
ESH-200-09	First aid cabinets are fully equipped and readily available for	1 or 0	x 0.07	
	treatment of sicknesses and injuries.		=	
SH-200-10	ESH signs are clearly visible to construction staff, workers	1 or 0	x 0.07	
	and public		=	
ESH-200-11	Conduct of regular safety meeting.	1 or 0	x 0.07	
	Monthly, construction potent and booth report out or business of the		= × 0.07	
ESH-200-12	Monthly construction safety and health report submitted to DOLE.	1 or 0	x 0.07	
	BOLL.		_	
Moo ou boots	rester used? If you make at some are and some	<del>-</del>	Total Score(a)	
	ractor used? If yes, name of company and owner: &		No. of Indicators (b)	
Entered by	Date: / /		(a) / (b)	
Lilicieu by.	Date. / /		(a) / (b) =	
			Rate =	

# ANNEX 7 CHECKLIST FOR RESOURCES DEPLOYMENT

# CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR RESOURCES DEPLOYMENT

PROJE	CT ID/NO.:	PROJE	CT TYPE:			
	VISIT	DATE C	F VISIT: /	/		
Sub-item Code	I N   *Note: All indicators shall	DICATORS*		Results	Score	Action Monitor
RDR-01	Pledged materials as p delivered at site on tim		ram of work were	1 or 0	x 0.05	
RDR-02	Pledged equipment as		ogram of work we	re 1 or 0	x 0.05	
	delivered at site on tim	е.			=	
RDR-03	Pledged manpower as mobilized at site on time		ogram of work we	re 1 or 0	x 0.05	
	contractor used? If yes,				Total Score (a)	
					No. of Indicators (b)	
Entered	d by:		Date: / /		(a) / (b) =	

Rate =

### ANNEX 8

### **CPES EVALUATION FORM**

Part I		General Information Sheet	8-1
	Part II	During Construction Rating Sheet	8-2
	Part III	Upon Completion Rating Sheet	8-3

### **CPES EVALUATION FORM**

☐ Road ☐ Bridge ☐ Port and Harbor ☐ Mooring Facilities for		Power Transmis	sion	Line □ Su	bst	ation 🛮 Die	ood Contresel Powe ners	er Plant
Project Owner		·						
Project Implementing Office	-Δ	1:						
1 Tojout implementing one	,C	1.1						
PART I. GENERAL INFO	RM	ΙΔΤΙΩΝ						
Name of Constructor/s	/1210	AIIOI						
Name of Constitution/s								
% Share of each Firm <i>(if Jo</i>	int \	Venture)						
Name of AMO								
Name of Aivio								
Address								
Valid License Number & Ca	ntea	orv/ARC-C						
	ن	0.19,72						
Nationality (Local/Foreign)								
, , , , , , , , , , , , , , , , , , ,								
Date of Evaluation	:							
Project Type	:							
Project Name	:							
Project Location/Region	:							
Funding Source								
Scope of Work	:							
Status	:							
	1 .							
Name of Constructor/Gov	t Pro	ni Manager	:					
Name of Constructor/Gov			:					
Name of Constructor/Gov			1:					
Name of Constructor Cost			:					
Consultant/Consulting Firm		,	:					
Contract Cost, Original		: P		Revised	:		as of	
Contract Duration, Origina	l	:		Revised	:		as of	
Scheduled Start Date		:		Revised	:		as of	
Actual Date Started		:						
Scheduled Completion Da	te	:		Revised	:		as of	
	_				_			
% Planned Physical Accor	npli	shment for the M	/lonth	١			:	
% Actual Physical Accomp	olish	ment for the Mo	nth				:	
Slippage for the Month							:	
Variation Order (Php, M)							:	
Time Extension								

### PART II. DURING CONSTRUCTION RATING SHEET

Date of	Visit /	/ /	/	/

Items of Work/Description	70   110.0					terials k. 0.30]
			Rate	Relative Rate	Rate	Relative Rate
Total						

### **Summary of Ratings**

Materials [ Time [Max Facilities [l Environme	Ship [Max. 0.40] [Max. 0.30] ( 0.15] Max. 0.03] ental, Safety & Health [Max. 0.07] Deployment [Max. 0.05]		
RATING			
Average R	atings "During Construction" (a) Rating "During Construction" (b) te Weight for Kind of Project (c)		
(A) WEIGI	HTED RATING FOR "DURING CON	STRUCTION" (b x c)	
CPE	Head/Individual	Designation, Office	<u>Signature</u>
<u>CPE</u>	<u>Members</u>	Designation, Office	Signature
Reso	ource Persons/Witnesses	Designation, Office	<u>Signature</u>

(Note: This form maybe reproduced depending on the number of visits)

### PART III. UPON COMPLETION RATING SHEET

Date of\	/isit /	/	/	/
----------	---------	---	---	---

Item of Work/Description	% Weight	Relative % Weight	Workmanship [Max 0.50]		Materials [Max. 0.20]	
			Rate	Relative Rate	Rate	Relative Rate
Total						

Summary of	of Ratin	gs
------------	----------	----

**CPE Head/Individual** 

Workmanship [Max. 0.50]				
RATING (a)Appropriate Weight for Kind of Project (b)				
(B) WEIGHTED RATING FOR "UPON COMP	LETION" ( a x b )			
OVER-ALL CPES RATING (A of Part II + B of Part III) x 100% = ( +) x 100% = %				
QUALITATIVE DESCRIPTION				
[ ] Outstanding >96% [ ] Very Satisfactory >89% ≤ 96% [ ] Satisfactory >82% ≤ 89%	[ ] <b>Unsatisfactory</b> ≥ 75% ≤ 82% [ ] Poor < 75%			

 CPE Members
 Designation, Office
 Signature

 Resource Persons/Witnesses
 Designation, Office
 Signature

**Designation, Office** 

**Signature** 

# ANNEX 9 CORRECTIVE ACTION REQUEST (CAR) FORM

CORR	ECTIVE ACTION REQU	EST (CAR)	
Project Data			
Project Owner Project Implementing Office Project Type Project Name Project Location Constructors Name Date of Evaluation			
Non-Conformance Findings	s (to be submitted by Eva	aluator):	
Sub-Item Code: Location/Det	ail		
Proposed Corrective Action F	Required from Constructo	or Not later than	// Date
Position Prin	ted Name	Signature	// Date

# CORRECTIVE ACTION PLAN (CAP) & PREVENTIVE ACTION PLAN (PAP) (To be Submitted by Constructor)

Project Owner :
[ ] Remove & Replace [ ] Repair [ ] Variation  Sub-Item Code: Location/Detail  Proposed Preventive Action Plan (PAP)
Sub-Item Code: Location/Detail  Proposed Preventive Action Plan (PAP)
Proposed Preventive Action Plan (PAP)
Sub-Item Code: Location/Detail
Position Printed Name Signature Date

# ASSESSMENT OF CORRECTIVE ACTION PLAN Project Data **Project Owner** Project Implementing Office : Project Type **Project Name Project Location** Constructors Name Date of Evaluation Assessment by the Head of the Implementing Office: Sub-Item Code: Location/Detail [ ] Approved [ ] Not Approved Reasons Position Printed Name Signature **Verification:** (Verified by Owner's Project Engineers) [ ] Implemented Corrected Action [ ] Unsatisfactory Signature [ ] Ongoing Signature [ ] Satisfactorily Completed Signature Date

### ANNEX 10

### **CONSTRUCTORS PERFORMANCE SUMMARY REPORT**

General Information Sheet	10-1
Non-Compliance Findings	10-2
List of Problems Encountered	10-3
Proposed Corrective Actions	10-3

Note: This summary report shall be submitted by the CPES-IU to CIAP based on the evaluation results.

### **CONSTRUCTORS PERFORMANCE SUMMARY REPORT**

Project Owner	:						
Project Implementing Office	:						
General Information							
Name of Constructor/s	:						
% Share of each Firm (if JV)	:						
Name of AMO	:						
Address	:						
Valid License Number	•						
PCAB/ARC Category	:						
Contractors Association	:						
Nationality (Local/Foreign)	:						
Project Data							
	:						
Project Type	:						
Project Name	:						
,	:						
Funding Source	:						
•	•						
•	:						
Name of Constructor/Gov't Proj N	Manager	:					
Name of Constructor/Gov't Proj B	Engineer						
Name of Constructor/Gov't Mat'ls		:					
Name of Constructor Cost Engineer :							
Consultant/Consulting Firm	00.						
Corlocation Corlocating 1 in in		•					
Contract Cost, Original :	Р		Revised			ء ا	as of
Contract Duration, Original :	•		Revised			_	as of
Scheduled Start Date :			Revised			_	as of
Actual Date Started :			rtovioca	Ė			30 01
Scheduled Completion Date :			Revised			- 2	as of
% Planned Physical Accomplishing	ment for the M	lonth	rtovioca			-	
Slippage for the Month	% Actual Physical Accomplishment for the Mon					÷	
Variation Order (Php, M)						:	
Time Extension (C. D.)						-	
THIS EXICITSION (O. D.)							<u> </u>
Summary of Ratings							
No. of Visit							1.
<u> </u>							
Materials	(0.40/0.50) (0.30/0.20)					•	
Time	(0.30/0.20)			• • • •		•	
Facilities						•	<u> </u>
/					1:1		
Environment, Safety & Health (0.07)					1.		
Resources Deployment VISIT RATING			<u> </u>			•	
VIOLI KATING							
FINAL RATING	1.1				1		
				1			
QUALITATIVE DESCRIPTION							

### **CPE FINDINGS**

### A. Non-Compliance Findings Based on CPES Checklist

Notes: The list of non-compliance findings on the different aspects covered must be based on its requirement for Corrective Action Request (CAR)

### Workmanship

Item-Code	Description	*R
	Constructors Challenges Encountered	

<sup>\*</sup> Results, R = Non-Compliance/Number of spots

#### **Materials**

Item-Code	Description	
	Constructors Challenges Encountered	

#### **Time**

Item-Code	Description
	Challenges Encountered
	(Please indicate codes as listed below)

### CONSTRUCTOR-RELATED PROBLEMS

C-W01	Insufficient manpower deployed in projects site
C-E01	Breakdown of equipment/equipment not operational
C-E02	Lack/Insufficient/Inadequate equipment deployed in project site
C-M01	Lack/Inadequate/Insufficient supply of construction materials
C_P01	Lack of financial resources

#### C-R01 Lack of financial resources

### **AGENCY-RELATED PROBLEMS**

A-V01	Delays in the approval of variation orders
A-T01	Delays in the approval of contract time extension
A-S01	Delays in the approval of suspension order
A-D01	Changes in construction designs
A-F01	Delays in the releases of funds
A-R01	Right-of-Way (ROW) acquisition problem (squatter relocation problems,
	relocation of utilities, i.e. PLDT, MERALCO posts and other similar cases)
A-P01	Delays in acquisition of necessary permits

### **OTHER-RELATED PROBLEMS**

• · · · · · · · · · · · · · · · · · · ·	
O-W01	Unfavorable weather condition (occurrence of natural calamities,
	flooding/siltation on site; unworkable ground condition)
O-P01	Insurgence or peace and order problems/civil disturbances
O-T01	Third party intervention
O-C01	Additional Commission on Audit (COA) requirements

<b>Faciliti</b>	es
-----------------	----

Item-Code	Description
	Constructors Challenges Encountered

**Environmental, Safety and Health** 

_ Liviloninental, Salety and Health		
Item-Code	Description	
	Constructors Challenges Encountered	
	-	

**Resources Deployment** 

Item-Code	Description	
	Constructors Challenges Encountered	

### B. List of Challenges Encountered by Agency and Other Related Challenges Encountered

	CHALLENGES ENCOUNTERED		
	AGENCY	OTHER RELATED	
Code	Description	Code	Description

C. Proposed Corrective Action Plan by the Contractor

Item-Code	Corrective Action	

### D. Narrative Reports

- Please highlight major positive and negative performances of constructor in summary form.
- Non-compliance of Corrective Action Request (CAR) of (no. Visit)
- Others/Remarks:

### **CPES EVALUATORS:**

	Name	Signature
Team Leader		_
Members		
Noted by		
Noted by:		
Head. CPES-II	J	

### ANNEX 11

# SCHEDULE OF MINIMUM TEST REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS

### A. Applicable for Irrigation and Flood Control Projects

Part C	Earthworks (Items 102, 103, 104, 105, 106)	11-1
Part D	Sub-base and Base Course (Items 200, 201, 202, 203, 204, 205, 206, 207)	11-1
Part E	Surface Course (Items 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310)	11-3
Part F	Bridge Construction (Items 311, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411)	11-7
Part G	Drainage and Slope Protection (Items 500, 501, 502, 503, 504, 505, 506, 507, 508, 509)	11-9
Part H	Miscellaneous Structure (Item 600, 601, 602, 604, 605, 606, 607, 608, 609, 610, 611)	11-10
Part I	Materials Details (Items 700, 701, 702, 703, 703A, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714)	11-11

# SCHEDULE OF MINIMUM TEST REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS, 1998, (VOLUME II)

### PART C - EARTHWORK

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 100 -	Clearing & Grubbing	None
Item 101 -	Removal of Structures & Obstruction	None
Item 102 -	Excavation	Same tests as for Items 103, 104 and 105, whichever is applicable.
	Structure Excavation If excavated materials are wasted, the volume involved shall be reported so that Quality Control requirements may be adjusted accordingly. Submit Project Engineer Certificate of Waste	1-P, Plasticity Test (LL, PL, PI) 1-C, Laboratory Compaction Test For every 150 mm layer in uncompacted depth: 1-D, Field Density
Item 104 -	Embankment	For every 1500 cu.m. or fraction thereof:  1-G, Grading Test  1-P, Plasticity Test (LL, PL, Pl)  1-C, Laboratory Compaction Test  For each 500 sq. m. of each layer of compacted fill or fraction thereof at least one group of three in-situ density tests. The layers shall be placed not exceeding 200 mm in loose measurement or based on the result of compaction trials.
Item 105 -	Sub-grade Preparation	Same tests as for Item 104
Item 106 -	Compaction Equipment and Density Control Strips	Same tests as for Items 104, 105, 200, 201, 202, 203, 204, 205, 206 and 300.
Item 107 -	Overhaul	None

### PART D - SUBBASE AND BASE COURSE

	TANT D GODDAGE AND BAGE GOONGE		
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS	
Item 200 -	Aggregate Subbase Course	For every 300 cu.m. or fraction thereof:	
		1-G, Grading Test	
		1-P, Plasticity Test (LL, PL, PI)	
		For every 1500 cu.m. or fraction thereof:	
		1-C, Laboratory Compaction Test	
		For every 2500 cu.m. or fraction thereof:	
		1-CBR, California Bearing Ratio Test	
		For every layer of 150 mm of compacted depth/	
		based on the results of compaction trials:	
		At least one group of three in-situ density tests for	
		each 500 sq.m. or fraction thereof.	

Item 201 - Aggregate Base Course	For every 300 cu.m. or fraction thereof:  1-G, Grading Test  1-P, Plasticity Test (LL, PL, PI)  For every 1500 cu.m. or fraction thereof:  1-Q, Quality Test for: (Grading, Plasticity and Abrasion)  1-C, Laboratory Compaction Test  For every layer of 150 mm of compacted depth/ based
	For every layer of 150 mm of compacted depth/ based on the results of compaction trials:
	At least one group of three in-situ density tests for each 500 sq.m. or fraction thereof.

### PART D - SUBBASE AND BASE COURSE

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 202 -	Crush Aggregate Base Course	Same tests as for Item 201
		For every 1500 cu.m. or fraction thereof:
		1-F, Fractured Face
Item 203 -	Lime Stabilized Road	A. Soil Aggregate
	Mix Base Course Amount of Lime	For every 300 cu.m. or fraction thereof:
	to be added:	1-G, Grading Test
	3 to 12 mass percent of dry	1-P, Plasticity Test (LL, PL, PI)
	aggregate	For every 1500 cu.m. or fraction thereof:
		1-Q, Quality Test for: (Grading, Plasticity and
		Abrasion)
		B. Mix For every 300 cu.m. or fraction thereof:
		1-C, Laboratory Compaction Test
		1-UC, Unconfined Compression Test
		1-CBR, California Bearing Ratio Test
		C. Compacted Base Course
		For every layer of 150 mm of compacted depth:
		1-D, Field Density Test for every 150m or fraction
		thereof
		D. <u>Hydrated Lime</u>
		For every 100 t or fraction thereof:
		1-Q, Quality Test
Item 204 -	Portland Cement Stabilized Road	A. <u>Soil Aggregate</u>
	Mix Base Course	Same tests as for Item 203
	Amount of Cement to be added: 6	B. Cement
	to 10 mass % of dry soil	1-Q Quality Test for every 2000 bags of fraction
	aggregate	thereof
		C. Water
		1-Q, Quality Test/Project Engineer's Certificate
		D. Mix For every 300 cu.m. or fraction thereof:
		1-C, Laboratory Compaction Test
		1-UC, Unconfined Compression Test
		1-CBR, California Bearing Ratio Test
		E. Compacted Base Course
		For every layer of 150 mm compacted depth
		1-D, Field density Test for every 150m or fraction
		thereof
		1-T, thickness determination for every 150 m or
		fraction thereof

Item 205 -	Asphalt Stabilized Road Mix Base	A. Soil Aggregate
	Course	Same tests as for Item 203
	Amount of Asphalt to be added: 6	B. Emulsified Asphalt
	to 10 mass % of dry soil	1-Q, Quality Test for every 40 to 200 drums or
	aggregate.	fraction thereof
		C. Mix
		Same tests as for Item 203
		D. Compacted Base Course
		Same tests as for Item 203
Item 206 -	Portland Cement Treated Plant	A. Soil Aggregate
	Mix Base course	Same tests as for Item 203
	Amount of Asphalt to be added: 6	B. Portland Cement
	to 10 mass % of dry soil	For every 2000 bags of fraction thereof:
	aggregate	1-Q, Quality Test
		C. Water
		1-Q, Quality Test/Project Engr's Certificate

PART D - SUBBASE AND BASE COURSE

- 7 11 1 2 CC 2 2 7 11 12 2 7 10 2 CC 2 7 11 12 2 7 10 2 CC 2 7 11 12 2 7 10 2 CC 2 7 11 12 2 7 10 2 CC 2 7 11 12 2 7 10	
ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
	D. Same tests as for Item 204
	E. Compacted Base Course
	For every layer of 150 mm compacted depth
	1-D, Field Density Test for every 150 m or
	fraction thereof
	1-T, Thickness determination for every 150m
	or fraction thereof
Item 207 - Aggregate Stockpile	Same tests as specified in Item No. of the Specs.

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 300 -	Aggregate Surface Course	For every 300 cu. m. or fraction thereof:  1-G, Grading Test  1-P, Plasticity Test (PI, LL, PI)  For every 1500 cu.m. or fraction thereof:  1-C, compaction Test for: (Grading, plasticity and Abrasion)  For every layer of 150 mm of compacted depth/based on the results of compaction trials.  At least on group of three in-situ density tests for each 500 sq. m. or fraction thereof.  For crushed Gravel or Crushed Stone, 1500 cu.m. or fraction thereof:  1-F, Fractured face
Item 301 -	Bituminous Prime Coat	Quantity: 1 to 2 L/sq.m. 1-Q, quality Test for every 40 t or 200 drums
Item 302 -	Bituminous Tack Coat	Quantity: 0.2 to 0.7 L/sq.m. 1-Q, Quality test for every 40 t or 200 drums
Item 303 -	Bituminous Seal Coat	A. Bituminous Materials Quantity: o.2 to 1.5 L/sq.m. 1-Q, Quality Test for every 40t or 200 drums B. Cover Aggregates Quantity: From 5 to 14 kg/s.q. m. For every 75 cu.m./200 kg. or fraction thereof: 1-G, grading Test

Item 304 - Bituminous Surface Treatment	A. Aggregates Quantity: Using Cut-Back Asphalt or Asphalt Cement — 13.6 to 38.0 kg/sq.m. Using Emulsified Asphalt - 13.6 to 19.04 Kg/sq.m. For every 75 cu.m./200 kg. or fraction thereof: 1- G, grading Test 1- P, Plasticity Test (PL, LL, PI) For every 1500 cu.m. or fraction thereof: 1- Q, Quality Test for: (Grading, Plasticity, Abrasion, Stripping and Bulk specific Gravity) 1-F, Fractured Face B. Bituminous Materials Quantity: Using Cut-back Asphalt or Asphalt Cement - 1.58 to 2.04 L/sq.m. Using Emulsified asphalt - 1.58 to 2.04 L/sq.m. Same test as for Item 301
---	---

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 305 - Bituminous Penetration Macadam Pavement	MINIMUM TEST REQUIREMENTS  A. Aggregates Quantity:  1. Using Asphalt Cement or Rapid Curing Course (Crushed)90 Kg/sq.m. Key (Crushed)(13 & 11)24 kg/sq.m. Cover Crushed & Screened)8 kg/sq.m. 2. Using Emulsified Asphalt Course (Crushed)90 kg/sq.m. Choker (Crushed)10 kg/sq.m. Key (Crushed)18 kg/sq.m. Cover (Crushed or Screened) 8 kg/sq.m.
	Same test as for Item 304  B. Bituminous Materials Quantity: 7.2 to 11 L/sq.m. Same tests as for for Item 301

Item 306 -	Bituminous	Road	Mix	Surface	A. Aggregates
	Course				Same tests as for Item 304
					B. <u>Bituminous Materials</u>
					Quantity:
					1. Using Cut-Back Asphalt - 4.5 to 7.0 mass %
					of total dry aggregate
					2. Using Emulsified Asphalt - 6.0 to 10.0 mass
					% of total dry aggregate
					Same test as for Item 301
					C. Mix
					Tests: For every 75 cu.m./130 t or fraction
					thereof:
					1-G, grading Test
					1-Ext., Extraction
					1-Sty., Stability
					1-C, Laboratory Compaction
					D. <u>Hydrate Lime</u>
					For every 100 t or fraction thereof:
					Tests: 1-Q, quality Test
					E. Compacted pavement
					For each full day's operation:
					Tests: D & T (Density and Thickness Test) - at
					least one (1) but not more than (3) samples shall
					be taken.
Item 307 -	Bituminous	Plant-	Mix	Surface	A. <u>Aggregates</u>
	Course Ger	neral			For every 75 cu.m./200 t or fraction thereof:
					1-G & P, Grading and Plasticity Tests for every 1500 cu.m. of fraction thereof:
					1-Q, quality Test for: (Grading, Plasticity,
					Abrasion, Stripping and Bulk Specific Gavity)
					1-F, Fractured Face
					B. Bituminous Materials
					Quantity: 5.0 to 8.0 mass % of total dry aggregate
					Tests: 1-Q, Quality Test for each 40 t of fraction
					thereof
					C. Mix
					For every 75 cu.m. /130 t of fraction thereof:
					1-G, Grading Test
					1-Ext., Extraction
					1-Sty., Stability
					1-C, Laboratory Compaction

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
	D. <u>Hydrated Lime</u>
	For every 100 t or fraction thereof
	E. Mineral filler
	For every 75 cu.m. or fraction thereof:
	1-G & P, grading and Plasticity Tests (LL, PL, PI)
	For each full day's operation:
	D & T (Density and Thickness Tests) - at least
	one (1) but not more than three (3) samples shall
	be taken.

Item 308 - Bituminous Plant Mix, Surface Course, Cold laid  Item 309 - Bituminous Plant Mix (Stockpile Maintenance Mixture)  Item 310 - Bituminous Concrete Surface Course, Hot-Laid	A. Aggregate Same tests as for Item 307 B. Bituminous Material Quantity: Using Cut-Back Asphalt - 4.5 to 7.0 mass % of total dry aggregate Using Emulsified Asphalt - 6.0 to 10.0 mass % of total dry aggregate Tests: 1-Q, Quality Test for every 40t or 200 drums C. Mix Same tests as for Item 307 D. Hydrated Lime Same tests as for Item 307 E. Mineral Filler For every 75 cu.m. or fraction thereof: 1-G & P, Grading and Plasticity Tests ( LL, PL, PI) F. Compacted Pavement Same tests as for Item 307 A. Aggregate Same tests as for Item 307 B. Bituminous Materials Qantity: 4 to 10 Mass % of total mix Tsts: 1-Q, Quality Test for every 40t or 200 drums C. Mix Same tests as for Item 307 D. Hydrated Lime Same tests as for Item 307 E. Mineral Filler Same tests as for Item 307 F. Compacted Pavement Same tests as for Item 307 A. Aggregate Same tests as for Item 307 B. Bituminous Materials Output the for a Mass of test of the page segregates Same tests as for Item 307 B. Bituminous Materials Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of test of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of the page segregates Output the for a Mass of
Have 240 - Diturning and Contract	Same tests as for Item 307  E. Mineral Filler Same tests as for Item 307  F. Compacted Pavement Same tests as for Item 307
	Same tests as for Item 307

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS

### Item 311 - Portland Cement Concrete Pavement

### A. Cement

Quality: 9.00 bags cu.m. (40Kg/bag)

Tests: For every 2000 bags or fraction thereof 1-Q, Quality Test

### B. Fine Aggregate

Quantity: 1 0.05 cu.m./cu.m. concrete (if rounded coarse aggregate is used)

2. 0.54 cu.m./cu.m. concrete (if angular coarse aggregate is used)

Tests: For every 1500 cu.m. or fraction thereof:

- a. For a coarse not yet tested, or failed in previous quality test:
- 1-Q, Quality Test For: Grading, Elutriation (Wash), Bulk Specific Gravity, Absorption Mortar Strength, Soundness, Organic Impurities, Unit Weight, % Clay Lumps and Shale.
- b. For a source previously tested and passed Quality Test:
- 1-Q, Quality Test for: Grading, Elutriation (Wash), Bulk Specific Gravity, Absorption Mortar Strength.

For every 75 cu.m. or fraction thereof 1-G, Grading Test

#### C. Course Aggregate

Quantity:

- 1. 0.77 cu.m/cu.m concrete (if rounded coarse aggregate is used)
- 2. 0.68 cu.m/cu.m concrete (if angular coarse aggregate is used)

Tests: For every 1500 cu.m or fraction Thereof

- a. For a source previously tested and passed quality tests:
- 1-Q, Quality Test for: Grading, Bulk Specific Gravity, Absorption and Abrasion For every 75 cu. m or fraction thereof:
- 1-G Grading Test

### D. Water

Tests: 1-Certificate from Project Engineer or 1-Q, Quality Test, if source is questionable

#### E. Joint Filler

- 1. Poured Joint Filler
- 1-Q, Quality Test on each type of ingredient for each shipment
- 2. Premolded Joint Filler
- 1-Q, Quality Test on each thickness of filler for each shipment

### F. Special Curing Agents

1-Q, Quality Test for each shipment

#### G. Steel Bars

For every 10,000 kg. or fraction thereof for each size

1-Q, Quality Test for Bending, Tension and Chemical Analysis

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
	H. Concrete Flexural Strength Test on Concrete Beam Sample 1-set consisting of 3 beam samples shall represent a 330 sq. m of pavement, 230 mm depth or fraction thereof placed each day. Volume of concrete not more than 75 cu.m.  I. Completed Pavement Thickness determination by concrete core drilling on a lot basis Five (5) holes per km per lane or five (5) holes per 500 m when 2 lanes are poured concurrently.

### PART F - BRIDGE CONSTRUCTION

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 400 - Piling	<ul> <li>A. <u>Timber Piles</u> <ul> <li>1-Inspection Report for each size and shipment of timber</li> </ul> </li> <li>B. <u>Concrete Piles</u> <ul> <li>a. Concrete</li> <li>Same tests as for Item 405</li> <li>b. Reinforcing Steel</li> <li>Same tests as for Item 404</li> </ul> </li> <li>C. <u>Structural Piles</u> <ul> <li>1-Q, Quality Test/Mill Test Certificate</li> <li>1-IR, Inspection Report</li> </ul> </li> </ul>
Item 401 - Railings	A. Concrete Same tests as for Item 405, Class C B. Reinforcing Steel Same tests as for Item 404
Item 402 - Timber Structures	<ul><li>1-Q, Quality Test on Manufacturer's Certificate for each type of materials used</li><li>1-Inspection Report for each type and shipment of timber</li></ul>
Item 403 - Metal Structures	<ul><li>1-Q, Quality Test or Mill Test Certificate for each type of materials used</li><li>1-Inspection Report for each type and shipment of metal used</li></ul>
Item 404 - Reinforcing Steel	<ul> <li>A. <u>Bar Reinforcement for Concrete</u> for every 10,000 kg or fraction thereof for each size:</li> <li>1-Q, Quality Test for Bending, Tension and Chemical Analysis</li> <li>B. <u>Wire and Wire Mesh</u></li> <li>1-Q, Quality Test</li> </ul>
Item 405 - Structural Concrete	A. Cement Quantity: (40 kg/bag) Class A 9.0 bags/cu.m. of concrete Class B 8.0 bags/cu.m. of concrete Class C 9.5 bags/cu.m. of concrete Class P 11.0 bags/cu.m. of concrete Tests: For every 2000 bags or fraction thereof 1-Q, Quality Test

PART F - BRIDGE CONSTRUCTION

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
TIEMS OF WORK	B. Fine Aggregate Quantity: cu.m./cu.m. of concrete For Rounded For Angular Class A 0.50 0.54 Class B 0.45 0.52 Class C 0.53 0.59 Class P 0.44 0.47 Tests: For every 1500 cu.m or fraction thereof a. For a source not yet tested or failed in previous quality test 1-Q, Quality Test for: Grading, Elutriation (Wash), Bulk Specific Gravity, Absorption, Mortar
	Strength, Soundness, Organic Impurities, Unit Weight, % Clay Lumps and Shale b. For a source previously tested and passed quality test: 1-Q, Quality Test for: Grading, Elutriation (Wash), Bulk Specific Gravity, Absorption, and
	Mortar Strength For every 75 cu.m. or fraction thereof: 1-G, Grading Test C. Coarse Aggregates Quantity: cu.m./cu.m. of concrete For Rounded Class A 0.77 0.68 Class B 0.82 0.73 Class C 0.68 Class P 0.68 Class P 0.68 Class P 0.68 Tests: For every 1500 cu.m or fraction thereof a. For a source not yet tested or failed in previous quality tests: 1-Q, Quality Test for: Grading, Bulk Specific Gravity, Absorption, Abrasion, Soundness and Unit Weight b. For a source previously tested and passed quality test: 1-Q, Quality Test for Grading, Absorption, Bulk Specific Gravity and Abrasion For every 75 cu.m. or fraction thereof: 1-G, Grading Test D. Water 1-Certificate from Project Engineer 1-Q, Quality Test, if source is questionable E. Premolded Filler for expansion joints
	<ul> <li>1-Q, Quality Test on each thickness of filler for each shipment</li> <li>F. <u>Steel Reinforcement</u></li> <li>1-Q, Quality Test for every 10,000 kg or fraction thereof for each size</li> <li>G. <u>Concrete</u></li> </ul>
	Compressive strength test on concrete cylinder samples. 1 set consisting of 3 concrete cylinder samples shall be taken from each day's pouring and to represent not more than 75 cu.m of concrete or fraction thereof

### **PART F - BRIDGE CONSTRUCTION**

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 406 -	Prestressed Concrete Structures	A. Concrete Same tests as for Item 405, Class P B. Steel Reinforcement Same tests as for Item 404 C. Wire Strand 1-Q, for every 20 t or fraction thereof
Item 407 -	Concrete Structures	Same tests as for Items 403, 404, 405 and 411.  Elastomeric Bearing Pad will be tested to determine its quality
Item 408 -	Steel Bridges	Same tests as for Items 403 and 411 Painting: 1-Q, One 20-L can for every 100 cans or fraction thereof or 1-Q, One 4-L can for every 100 cans or fraction thereof
Item 409 -	Welded Structural Steel	Same tests as for Item 403 and Inspection Report
Item 410 -	Treated or Untreated Timber	Inspection Report for Timber 1-Q, Quality Test for preservatives
Item 411 -	Paint	<ul><li>1-Q, One 20-L can for every 100 cans or fraction thereof or</li><li>1-Q, one 4-L can for every 100 cans or fraction thereof</li></ul>

### PART G - DRAINAGE AND SLOPE PROTECTION

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 500 -	Pipe Culverts and Storm Drains	Pipes Pipe for every 50 pieces: Strength, Absorption and Dimension Alternative Requirements: 1-set consisting of 3 concrete cylinder samples for not more than 25 pipes cast in the field, and 1-Inspection Report for each size for not more than 25 pipes cast in the field  Mortar for Joint Cement, Fine Aggregates and Water - Same tests as for Item 405
Item 501 -	Underdrains	Concrete Pipe (Non-Reinforced) 0.5% of the number of pipes of each size but not less than 2, for strength, absorption and dimension Alternative Requirements: 1-set consisting of 3 concrete cylinder samples for not more than 25 pipes cast in the field, and 1-Inspection Report for each size for not more than 25 pipes cast in the field. Clay Pipe 1-Pipe for every 200 pieces each size, with a minimum of 2 specimens for strength, absorption and dimension.
Item 502 -	Manholes, inlets and Catch Basins	Concrete Same tests as for Item 405, Class A Lids, Cast Iron Frames and Grating Inspection Report

PART G - DRAINAGE AND SLOPE PROTECTION

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 503 -	Cleaning and Reconditioning	Inspection Report
	Existing Drainage Structures	
Item 504 -	Riprap and Grouted Riprap	Same tests as for Item 505
	Stone Masonry	<ul> <li>A. Cement Quantity: 2 bags/cu.m. of concrete Tests: For every 2,000 bags or fraction thereof: 1-Q, Quality Tests</li> <li>B. Fine Aggregate Quantity: 0.17 cu.m./cu.m. of concrete Tests: for every 2,000 bags or fraction thereof 1-Q, quality Test for: (Same as for Item 405) For every 75 cu.m. or fraction thereof:</li> <li>C. Stone Inspection Report</li> <li>D. Water 1-Certificate from Project Engineer or 1-Q, quality Test, if source is questionable</li> </ul>
Item 506 -	Hand-Laid Embankment	Inspection Report
Item 507 -	Sheet Piles	A. Timber Sheet Piles Inspection Report  B. Concrete Sheet Piles Same tests as for Item 400  C. Steel Sheet Piles Same tests as for Item 403
	Concrete Slope Protection	A. Bed Course Same tests as for Item 200 B. Steel Reinforcement Same tests as for Item 404 C. Concrete Same tests as for Item 405
Item 509 -	Gabions	1-Q, Quality Test for each shipment

### PART H - MISCELLANEOUS STRUCTURE

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 600 - Curb and/or Gutter	A. Concrete Quantity: 0.078 cu.m./m (Curb only) 0.092 cu.m./m (Curb and Gutter, type A) 0.149 cu.m./m (Curb and Gutter Type B) 0.074 cu.m./m (Curb and Gutter Type C) Same tests as for Item 405
	B. <u>Joint Filler</u> Same tests as for Item 311
Item 601 - Sidewalk	A. Concrete     Same tests as for Item 405, Class A     B. Premolded Expansion Joint Filler     Same tests as item 311

Item 602 -	Monuments,	Markers	and	Guide	A. Concrete
	Posts				Same as for Item 405
					B. Reinforcing Steel
					Same tests as for Item 404
					C. <u>Timber</u>
					Same tests as for Item 410
					D. Paint
					Same tests as for Item 411

### PART H - MISCELLANEOUS STRUCTURE

TAKT IT MIGGELLANEOGG GTROOTOKE				
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS		
Item 604 -	Fencing	A. Barbed Wire, Chain Link Fabric		
		1-Q, Quality Test		
		B. Concrete Post		
		Same tests as for Item 405		
		Steel Reinforcement: Same test as for Item 404		
Item 605 -	Road Sign	Inspection Report		
Item 606 -	Pavement Markings	Same tests as for Item 411		
Item 607 -	Reflective Pavement Studs	Inspection Report		
Item 608 -	Topsoil	Inspection Report		
Item 609 -	Sprigging	Inspection Report		
Item 610 -	Sodding	Inspection Report		
Item 611 -	Tree Planting	Inspection Report		

### PART I - MATERIALS DETAILS

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 700 -	Hydraulic Cement	Same tests as for Item 405
Item 701 -	Construction Lime	1-Q, Quality test for every 100 t or fraction thereof
	(Hydrated)	
Item 702 -	Bituminous Materials	Same tests as for Items 301, 302, 303, 306, 307, 308, 309 and 310
Item 703 -	Aggregates	Same tests as for Item of Work specified in the Bill of Quantities
Item 703A -	· Mineral filler	Same tests as for Item 307
Item 704 -	Masonry Units	1-Q, Quality Test for every 10,000 units or fraction
		thereof
Item 705 -	Joint Materials	Same tests as for Item 311 and 500
Item 706 -	Concrete, Clay, Plastic and Fiber	A. Concrete Pipes
	Pipes	Same tests as for Item 500
		B. Clay and other types of pipes
		Refer to the applicable requirements of AASHTO
		Test and Specification
Item 707 -	Metal Pipe	Same tests as for Item 400
Item 708 -	Concrete Curing Materials & Admixtures	1-Q, Quality Test for each shipment
Item 709 -	Paints	Same tests as for Item 411
Item 710 -	Reinforcing Steel and Wire Rope	A. Reinforcing Steel
		Same tests as for Item 404
		B. Wire Rope
		Same tests as for item 406

Item 711 -	Fence and Guardrail	A. Fence Same tests as for Item 604 B. Guardrail Same tests as for Item 603
Item 712 -	Structural Metal	Same tests as for Items 403 and 409
Item 713 -	Treated and Untreated Timber	Same tests as for Item 410
Item 714 -	Water	<ul><li>1-Certificate from Project Engineer or</li><li>1-Q, Quality Test, if source is questionable</li></ul>

### ANNEX 11-B

# SCHEDULE OF MINIMUM TEST REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS AS PRACTICED BY THE NATIONAL TRANSMISSION CORPORATION (TRANSCO)

Part C	Earthworks (Items 100, 101, 102, 103, 104, 105)	11B-1
Part D	Sub-base and Base Course (Items 200, 201, 202)	11B-1
Part E	Surface Course (Items 311)	11B-2
Part F	Bridge Construction (Items 400, 404, 405, 407)	11B-3
Part G	Drainage and Slope Protection (Items 504, 505, 508)	11B-4
Part H	Miscellaneous Structure (Item 600, 601)	11B-4
Part I	Materials Details (Items 704, 708)	11B-4

# SCHEDULE OF MINIMUM TEST REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS USING TEST REQUIREMENTS AS PRACTICED BY THE NATIONAL TRANSMISSION CORPORATION (TRANSCO) FOR POWER TRANSMISSION LINE AND SUBSTATION PROJECTS

PART C - I	EARTHWORK	
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 100 -	Clearing & Grubbing	None
Item 101 -	Removal of Structures & Obstruction	None
Item 102 -	Excavation	Same tests as for Items 103, 104 and 105, whichever is applicable. (same as per DPWH Standard)
Item 103 -	Structure Excavation	
involved s requireme	ed materials are wasted, the volume shall be reported so that quality control ents may be adjusted accordingly.  oject Engineer Certificate of Waste.	If excavated materials are incorporated into the work: For every 1500 cu.m. or fraction thereof: 1- Specific Gravity 1- Grading Test 1- Plasticity Test (LL, PL, PI) 1- Laboratory Compaction Test
Item 104 -	Embankment/Backfill	For every 1500 cu.m. or fraction thereof per source:
		1- Specific Gravity 1- Grading Test 1- Plasticity Test (LL, PL, Pl) 1- Laboratory Compaction Test A. Substations A.1 Grading Fill * 1 - Field Density Test for each 200 sq. m. of each layer of compacted fill A.2 Roadways * 1 - Field Density Test for each 50 sq. m. of each layer of compacted fill * The layers shall be placed not exceeding 200 mm in loose measurement and compacted with approved vibro-roller weighing not less than 10 tons. B. Transmission Lines B.1 Backfill 1- Field Density Test for each tower
Item 105 -	Sub-grade Preparation	Same tests as for Item 104 above
PART D - S	SUBBASE AND BASE COURSE	
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 200 -	Aggregate Subbase Course	For every 300 cu.m. or fraction thereof per source:  1- Grading Test 1- Abrasion Test 1- Plasticity Test (LL, PL, PI) 1- Laboratory Compaction Test For every 50 sq.m. per layer of 150 mm of compacted depth: 1- Field Density Test
Item 201 -	Aggregate Base Course	Same tests as for Item 200 above
Item 202 -	Crushed Aggregate Base Course	Same tests as for Item 200 above

PARIE-S	SURFACE COURSE	I
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 311 -	Portland Cement Concrete Pavement	A. Cement Splg.: For every 1,000 bags/brand or fraction thereof per brand: 1 - bag (40 kg/bag)
		Tests: 1 - Time of Setting using Vicat Apparatus
		1 - Mortar Strength Test  B. Fine Aggregate Tests: a. For each new source (no previous tests)  1 - Gradation Test 1 - Decantation Test 1 - Bulk Specific Gravity & Absorption 1 - Unit Weight Determination b. For each approved source (with previous acceptable test results) 1 - Gradation Test 1 - Decantation Test 1 - Unit Weight Determination
		C. Coarse Aggregate Tests: a. For each new source (no previous tests) 1- Gradation Test 1- Bulk Specific Gravity & Absorption 1- Unit Weight Determination 1- Abrasion Test b. For each approved source (with previous acceptable test results) 1- Gradation Test 1- Unit Weight Determination
		<ul> <li>D. Water     Tests: Certificate from Project Engineer</li> <li>E. Joint Filler     None</li> <li>F. Special Curing Agents     None</li> </ul>
		G. Steel Bars Per 10,000 kg or fraction thereof of steel bars/delivery/ per size Tests: 1 - Mill Certificate 1 - Quality Test for Bending, Tension and Unit Weight Determination in every size.
		H. Concrete  Mix Prop.: As determined by Transco thru Trial Mix conducted  Tests: Per 25 m³ or fraction thereof per pouring
		schedule  1 - set of 3 concrete cylinder samples for Compressive Strength Test.  I. Completed Pavement

PART F - BRIDGE CONSTRUCTION/TOWER FOOTINGS, EQUIPMENT FOUNDATIONS, AND OTHEI STRUCTURES.				
ITEMS OF WORK	MINIMUM TEST REQUIREMENTS			
Item 400 - Piling	B. Concrete Piles a. Concrete Same tests as for Item 405 below b. Reinforcing Steel Same tests as for Item 404 below C. Structural Piles 1 - Mill Test Certificate			
Item 404 - Reinforcing Steel	A. Bar Reinforcement for Concrete Per 10,000 kg or fraction thereof of steel bars Tests: 1 - Mill Certificate 1 - Quality Test for Bending, Tension and Unit Weight determination in every size. B. Wire and Wire Mesh - None			
Item 405 - Structural Concrete	A. Cement Splg.: For every 1,000 bags/brand:			
	Tests: a. For each new source (no previous test)  1 - Gradation Test  1 - Bulk Specific Gravity and Absorption  1 - Unit Weight Determination  1 - Abrasion Test  b. For each approved source (with previous acceptable test results)  1 - Gradation Test  1 - Unit Weight Determination  D. Water Tests: Certificate from Project Engineer  E. Premolded Filler for expansion joints None			

J.1.3010	ITEMS OF WORK	MINIMUM TEOT DECLUDENTS
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
		F. Concrete
		Mix Prop.: As determined by Transco thru Trial Mix
		conducted
		Tests: 1 - set of 3 conc. cylinder samples for:
		a. Every leg of transmission tower
		<ul><li>b. Every equipment foundation/cluster of related foundations</li></ul>
		c. Every 25 m <sup>3</sup> or fraction thereof per
		pouring schedule.
Item 407 -	Other Concrete Structures	Same tests as for Item 405 above
	DRAINAGE AND SLOPE PROTECTIO	
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 504 -	Riprap and Grouted Riprap	Same tests as for Item 505 below
	Stone Masonry	A. Cement
	•	Mix Prop.: 1:3 of cement to clean fine aggregates
		Tests: Same tests as for Items 405 - A above
		B. Fine Aggregate
		Tests: Same tests as for Items 405 - B above
		C. Boulder
		Tests: Unit weight, specific gravity, Weight
Item 508 -	Concrete Slope Protection	A. Bed Course
		Same tests as for Item 200 DPWH Standard
		B. Steel Reinforcement
		Same tests as for Item 404 DPWH Standard
		C. <u>Concrete</u>
DADTU	MODEL I ANEQUO OTRUCTURE	Same tests as for Item 405 above
PAKI H -	MISCELLANEOUS STRUCTURE	MINIMUM TEST DESCRIPTIONS
Itam 600	ITEMS OF WORK Curb and/or Gutter	MINIMUM TEST REQUIREMENTS  A. Concrete
116111 000 -	Curb and/or Gutter	Same tests as for Item 405 above
		B. <u>Joint Filler</u>
		None
Item 601 -	Sidewalk	A. Concrete
		Same tests as for Items 311 DPWH Standard and
		405 above
		B. <u>Premolded Expansion Joint Filler</u> None
PARTI -	MATERIALS DETAILS	B. Premolded Expansion Joint Filler
PART I -	MATERIALS DETAILS ITEMS OF WORK	B. Premolded Expansion Joint Filler
		B. <u>Premolded Expansion Joint Filler</u> None
	ITEMS OF WORK	B. Premolded Expansion Joint Filler None  MINIMUM TEST REQUIREMENTS
	ITEMS OF WORK	B. Premolded Expansion Joint Filler None  MINIMUM TEST REQUIREMENTS  1 - Compressive strength test every specimen
<b>PART 1</b> - Item 704 - Item 708 -	ITEMS OF WORK	B. Premolded Expansion Joint Filler None  MINIMUM TEST REQUIREMENTS  1 - Compressive strength test every specimen taken at random representing 500 units

### ANNEX 12

PHILIPPINE NATIONAL STANDARDS (CONSTRUCTION MATERIALS) FOR MANDATORY IMPLEMENTATION

# LIST OF PHILIPPINE NATIONAL STANDARDS (CONSTRUCTION MATERIALS) FOR MANDATORY IMPLEMENTATION

	BPS
CLASSIFICATION/NAME OF MATERIALS	
	DESIGNATION NO.
Cement and Lime	D110 = 000=
Portland cement – Specification	PNS 7:2005
Pozzolan cement – Specification	PNS 63:2006
Ceramic and Ceramic Products	
Sanitary wares- Specification	PNS 156:1992
Electric Wires and Cables	
Unplasticized polyvinyl chloride (uPVC) electrical conduit- Specification	PNS 14:1983
Thermoplastic Electric Wires and Cables	PNS 35:1990
Electrical products- Polyvinyl chloride insulated flexible cords- Specification	PNS 163: 1994
Lamps and Related Equipment	
Ballast for tubular fluorescent lamps – General and safety requirements	PNS 12-1:1997
Ballast for tubular fluorescent lamps – Performance requirements	PNS 12-2:1997
Ballast for high pressure mercury vapor lamps – Specification	PNS 105:1986
AC supplied electronic ballasts for tubular fluorescent lamps Part 1: General	PNS 135-1:1997
and safety requirements	1 100 100-1.1001
AC supplied electronic ballasts for tubular fluorescent lamps Part 2:	PNS 135-2:1997
Performance requirements	FINO 100-2.1991
Circuit breakers, Moulded case – Specification	PNS 519:1997
Low voltage switchgear and controlgear Part 2: Circuit Breaker	PNS 1573:1997
Unplasticized polyvinyl chloride (uPVC) electrical conduit – Specification	PNS 14:1987
Double-capped fluorescent lamps- Performance specifications	PNS IEC 60081:
	2001
Lamps- Self ballasted lamps for general lighting services- Part 1: Safety	PNS 603-1:1993
requirements	DNO 000 0 4000
Lamps- Self ballasted lamps for general lighting services- Part 2: Performance	PNS 603-2:1993
requirements	DN 0 40 0 0000
Lamps and related equipment- Electromagnetic ballast- Energy standards and	PNS 12-3:2000
labeling requirements	
Single-capped fluorescent lamps- Performance specification Section 1:	PNS 1261:1995
General	
Class H Fuses – Specification	PNS 13:1999
Fuseholders – Specification	PNS 56:1996
Edison screw lampholders – Specification	PNS 80:1997
Safety specifications for incandescent lamps- Part 1: Tungsten filament lamps	PNS 38-1:1995
for domestic and similar general lighting purposes	
Tungsten filament lamps for domestic and similar general lighting purposes-	PNS 38-2:1995
Part 2: Performance requirements	
Lampholders for tubular fluorescent lamps and starterholders – Specification	PNS 42:1997
Liquid tight flexible steel conduit – Specification	PNS 164:1988
Plugs and socket-outlets for household and similar purposes Part 1: General	PNS 1486-1:1996
requirements	
Plugs and socket-outlets for domestic and general use standards	PNS 1572-1:1997
Electrical products- Boxes for rigid metal conduits	PNS 1829:1999
Pressure sensitive PVC tapes for electrical insulation – Specification	PNS 79:1992
Glow-starters for fluorescent lamps	PNS 45:1997
Cieff Claritore for Inderecedin lampe	

Knife switches – Specification Snap switches for general use – Specification	PNS 118:1992
Snan switches for general use - Specification	DNIO 57 4000
Torrap switches for general use — openination	PNS 57:1996
Switches for household and similar fixed-electrical installations Part 1:	PNS 1485-1:1996
General requirements	
Pressure sensitive adhesive polyvinyl chloride (PVC) tapes- PVC electrical	PNS 79:1992
tapes	
Lumber and Wood Products	
Plywood – Specification	PNS 196:2000
Pipes and Fittings	
High density polyethylene (PE) pipes for potable water supply – Specification	PNS 55:1986
Polybutylene (PB) pipes for potable water supply – Specification	PNS 152:1987
Unplasticized polyvinyl chloride (uPVC) pipes for potable water supply -	PNS 65:1993
specification	
Grey iron pipes for pressure water lines- Specification	PNS 1991:2002
Steel	
Steel- Black & hot-dipped zinc-coated (galvanized) longitudinally welded steel pipes for ordinary use – Specification	PNS 26:1992
Re-rolled steel bars for concrete reinforcement – Specification	PNS 211:2000
Steel bars for concrete reinforcement – Specification	PNS 49:2000
Galvanized steel sheets and coils – Specification	PNS 67:2000
Galvanized steel sheets & coils, pre-painted – Specification	PNS 201:1990
Cold-reduced carbon steel sheet of commercial and drawing qualities:	PNS 127:2004
Specification	
Hot-dip zinc-coated carbon steel sheets	PNS 1990:2004
Continuous hot-dip aluminum zinc-coated steel sheets	PNS 1993:2004
Continuous hot-dip zinc /5% aluminum alloy coated steel sheets	PNS 2003:2004
Steel wire nails – Specification	PNS 136:2000



### CONSTRUCTION INDUSTRY AUTHORITY OF THE PHILIPPINES (CIAP)

### PHILIPPINE DOMESTIC CONSTRUCTION BOARD (PDCB)

5/F Executive Building Center, 369 Sen. Gil J. Puyat Avenue corner Makati Avenue, Makati City
Tel. Nos. 897-0791 or 896-1801
E-mail address: pdcb\_ciap@yahoo.com.ph