

PORT QASIM AUTHORITY

Bin Qasim Karachi 75020

PORT QASIM THE CATEWAY TO RATIONAL PROBRESETY

NOTICE INVITING TENDER

1. Port Qasim Authority (PQA) invites sealed bids from the reputed Contractors / Firms registered with (i) Pakistan Engineering Council (PEC) in C-2 Category or above, valid up to December 2024 (ii) with specialized code CE-09 (iii) registered with Income Tax Department under FBR (Federal Board of Revenue) on Active Tax Payer list having Tax Payers Registration Certificate (iv) registered with SRB (Sindh Revenue Board) (v) and also registered with e-Pak Acquisition and Disposal System (e-PADS) of PPRA for the works mentioned here under:

S. No.	Name of work	Earnest Money	Tender fee by Pay Order	Contract Period	Bid submission & opening date
1.	Repair/Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone, PQA	Rs. 15.0 Million in shape of pay order or bank guarantee in favor of PQA. (Refundable)	Rs.5,000/= (in favor of PQA) (non- refundable)	Initially 9 Months	18 th July,2024

2. Bidding documents containing detailed Terms and Conditions, method of procurement, procedure for submission of bids, bid security, bid validity, opening of bid, evaluation criteria, clarification/rejection of bids, performance guarantee, etc., are available for the interested bidders at the Office of Director (CM), PQA Bin Qasim, Karachi. The documents will be provided upon providing evidence for registration in relevant PEC Category and specialization, and upon payment of a non-refundable bid documents price of Rs. 5,000/- (Rupees Five Thousand Only) in the shape of bank draft/pay order from any scheduled bank in Pakistan in favor of "Port Qasim Authority". Bidding documents can also be downloaded from PQA website.

3. Single Stage Two Envelope Procedure under rule 36 (b) of PPRA-2004 shall be adopted. One envelope containing information regarding Qualification of bidder and respective information shall be clearly marked "Technical Proposal" & the second envelope containing the Bid price shall clearly marked "Financial Proposal". Technical Proposal must contain the earnest money amounting to Rs. 15,000,000/- (Rupees Fifteen Millions only) in the form of pay order or bank guarantee in favor of Port Qasim Authority, issued by a scheduled Bank of Pakistan located in Karachi having AA rating, Tender submitted without Earnest Money/Bid Security shall be rejected.

4. Technical Proposal and Financial Proposal (Both Envelopes) are to be submitted in the office of Director (Civil Maintenance) by 1200 hours on date indicated above along with earnest money and tender in the shape of Pay order (Refundable) in favor of Port Qasim Authority. Technical Proposals only shall be opened on the same date at 12:30 hours in the presence of Bidders or their authorized representative who may wish to be present. Bids received after prescribed time and date shall not be accepted.

 Financial proposal of technically qualified bidders shall be opened in the presence of bidders or their authorized representatives who may wish to attend. The date, time and venue will be intimated later. The financial proposal of technically non-qualified bidders shall be returned unopened.

In case of holiday on the date of submission / opening of tender. The same will be opened on the next working day at the same time.

 Port Qasim Authority reserves the right to accept or reject any or all bids as per PPRA-2004 and no claim whatsoever shall be entertained in this regards. Authority's decision shall be final and binding upon all bidders.

This advertisement along with forms and bidding documents are available on official Port Qasim.
 Authority website at www.pqa.gov.pk, on official PPRA website at www.ppra.org.pk and as well as on (e-PADS).

(Tipu Sultan Shaikh) SECRETARY, POA

Website: www.pqa.gov.pk Email: secretarv@pqa.gov.pk



PORT QASIM AUTHORITY

CIVIL MINTENANCE DEPARTMENT

PORT QASIM

THE GATEWAY TO NATIONAL PROSPERITY

"Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone, PQA"

QUALIFICATION OF CONTRACTORS VOULME - I

MAY, 2024



Jechno-Consult International (Pvt.) Ctd.

INSTRUCTIONS TO APPLICANTS

(Note:

These instructions to Bidders along with Bidding Data will not be part of the Contract and will cease to have effect once the contract is signed.)

1. BACKGROUND

Port Qasim Authority (PQA) - The Employer is under taking the Works "Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone, PQA" for this purpose, Bids are called as per Single Stage Two Envelope bidding procedure as stated in Pakistan Public Procurement Rules 36 (b).

2. SCOPE OF WORKS

"Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone, PQA which includes removal of existing bulk water supply pipeline and system with 18" HDPE bulk water supply pipeline in Port area. This includes all the auxiliary and supplementary works needed to increase the bulk water supply capacity of 2 MGD.

3. INVITATION OF APPLICATIONS

- 3.1 PQA invites the applications from the bidders for "Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone. PQA".
- 3.2 Any constructor/firm not meeting the above-mentioned relevant requirement will not be considered for further evaluation and qualification.
- 3.3 This invitation for Bids is open to local firms / Contractors:-

Firms / Contractor shall have to submit with bid the following:-

- (i) Pakistan Engineering Council (PEC) in C-2 Category or above, valid up to December 31st 2024, with specialization code CE-09.
- (ii) Registered with Income Tax Department under FBR (Federal Board of Revenue) on Active Tax Payer list having Tax Payers Registration Certificate.
- (iii) Registered with SRB (Sindh Revenue Board) on active Tax Payer list.
- (iv) Registered with e-Pak Acquisition and Disposal System (e-PADS) of PPRA for the works mentioned here.

4. SUBMISSION OF APPLICATIONS

4.1 Applications for qualification (one original and one copy) for the above defined scope of work shall be submitted in sealed envelopes and delivered by hand or through registered mail/courier to:

Director (Civil Maintenance)
PQA Building No.3
Port Qasim Authority
Bin Qasim,
Karachi -75020

Tele: +92-21-99272158

and be clearly marked "Application for Bid" for "Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water WorksOperational Zone, PQA". The name and mailing address of the applicant shall be clearly marked on top left corner of the envelope.

- 4.2 The applications shall be prepared in English language. Information in any other language shall be accompanied by its certified translation in English. The Employer reserves the rights for rejection of pre-qualification in case of non-compliance of the above requirement.
- 4.3 All pages of the Qualification Documents shall be numbered, stamped and signed by the Authorized person.
- 4.4 Applicants shall respond to all questions and provide complete information as advised in this document. Any false information provided or any lapses to provide essential information may result in disqualification of the applicant.
- 4.5 The date, time and venue of pre-bid meeting, if convened, is as stipulated in the Bidding Data.
- 4.6 The applicants understand that the Scope of Work described under para 2 above.
- 4.7 The applicant's queries, if any, may be sent to the Employer.
- 4.8 The applicants shall bear all costs associated with the preparation and submission of their application/bid and any further costs incurred in this regard.

5. QUALIFICATION CRITERIA

5.1 GENERAL

Qualification will be based on all the criteria given in succeeding paras 5.2 to 5.5 regarding the applicant's experience, personnel, equipment & financial capabilities as demonstrated by the applicant's responses in the forms provided.

"Single Stage Two-envelope Procedure" under Rules 36(b) of PPRA Rules 2004 (as amended up to date) will be adopted in selection of the proposals.

The technical evaluation shall be carried out first, followed by the financial evaluation as per evaluation criteria.

PQA reserves the right to waive minor deviations if these don't materially affect the capability of an applicant to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the applicant's compliance with the qualifying criteria.

PQA reserves the right to verify or seek clarification of the information furnished by the applicants. PQA may reject any application for any misrepresentation made by any applicant in, or pursuant to, their application or for any statement furnished in connection therewith, and intended to be relied upon by PQA, which is incorrect in any respect.

5.2 PRELIMINARY EXAMINATION

All applications/documents submitted shall be checked for the following items:

- 5.2.1 Has the Letter of Application (Annex A) been signed?
- 5.2.2 Has all information asked for in **Form A-1 to A-9** been provided?
- 5.2.3 Have all Affidavits required under **Form A-8** been provided and duly signed by the authorized person?
- 5.2.4 Have audited balance sheets of last **three (03) years** been provided?

5.3 INITIAL SCRUTINY

All the applicants shall be subjected to initial scrutiny using the following criteria:

- 5.3.1 Valid registration certificate with Pakistan Engineering Council in **C-2 Category** or above and having at least Specialization Codes **CE-09**.
- 5.3.2 At least one (01) number similar nature project having minimum cost of Rs.500million or above completed during last ten(10) years.
- 5.3.4 Valid NTN Certificate from Federal Board of Revenue (should be an Active Tax Payer).
- 5.3.5 Valid Sales Tax Certificate from Sindh Revenue Board (SRB).
- 5.3.6 An Affidavit to the effect that the firm is not blacklisted by any previous employer.
- 5.3.7 An Affidavit to the effect that all documents /particulars /information given with this qualification documents are true.

- 5.3.8 An Affidavit to the effect that is and the firm is not presently involved nor has been in the past in litigation with its employers. Should this be otherwise, the Applicant must provide such details in form A-7 "Litigation History".
- 5.3.9 All above affidavits should be provided on non-judicial Stamp Paper.

The applicants do not fulfill the above mandatory requirements shall not be considered for detailed evaluations and hence disqualified.

5.4 DETAILED EVALUATION

After the initial screening of all applicants, a detailed evaluation of the applicants shall be undertaken using the following criteria based on the scoring system as follows:

Category	Maximum	Points
Category	Wiaxiiiiuiii	Minimum Acceptable
Financial	30	15
Experience	35	17.5
Personnel	20	10
Equipment	15	7.5

The firms/bidders receive less than the specified minimum acceptable points for each category and aggregate of minimum 70 points shall be not-qualified/rejected and their financial proposal will be returned unopened.

5.5 CRITERIA FOR DETAILED EVALUATION

Detailed evaluation criteria are as below:-

5.5.1 Financial Capability

Financial Soundness of an applicant will be considered as follows:

- 5.5.1.1 The Applicant should demonstrate that he has access to, or has available liquid assets, un-encumbered real assets, lines of credit and other financial means sufficient to meet the cash flow for the execution of works.
- 5.5.1.2 The Audited Balance Sheets and Annual Turn Over for the last three years (Form A-3) must be submitted and should demonstrate the soundness of the applicant's financial position, showing long term profitability. Where necessary, NIP will make inquiries with the applicant's bankers.
- 5.5.1.3 **Financial Evaluation:** Financial bid will be evaluated after the adjustments of applicable input sales Tax as per SRB rule.

5.5.1.4 Points shall be awarded under this category based on the following criteria:

S.No.	Description	Max PointsAs signed	Criteriafor PointsObtained
a)	Available Bank Credit Line (updated)	06	 Four (04) Pointsare given if the available bank credit line limit is equal to hundred (100) million. One (01) mark is given for every twenty(20) Million increase in the Credit Line. Full Points are given in case of limitequal or above 140 Million.
b)	Average working capital in last five (05) Years	12	 Eight (08) Points are given if the average working capital for last three (03) years is equal to hundred(100) million. One(01) additionalPointis given for everytwenty (20) million increase in the working capital. Full twelve (12) Points are given in case of working capital equal or above 180 million.
c)	Average Annual turnover in last five (05) years	12	 Eight (08) Points are given if the average annual turnover for last three (03) years is equal to two hundred Fifty(280) million. One(01) additional Point is given for every twenty(20) million increase in the average annual turnover. Full twelve (12) Points are given in case of Average Annual Turnover equal or above 360 million.
Total Points Allocated		30	

5.5.2. Working Capability

1) Construction Capability

Construction Capability for Projects Completed (FormA-2)will be evaluated on the basis of the following Points:

(Information regarding similar/comparable projects is to be supported by documents such as Letter of Intent/Letter of Award, Job Completion Certificate and any other relevant document)

Points shallbeawardedunderthiscategorybasedonthefollowingcriteria:

Capability	Points	Criteria for Points Obtained
1. General Civil Engineering Projects except similar nature project completed in Last five (05) years.	10	 Seven (07) Points are given if the contractor has completed one (01) General Civil works project having minimum cost of Rs. 500 million or above in last five (05) years. Full Points ten (10) will be given if the contractor has completed two (02) or more civil works project having minimum cost of Rs. 500 million or above in last five (05) years.
2. Projects of Similar nature and complexity completed in last ten (10) years.	25	 Fifteen (15) Points are given if the contractor has completed one (01) project of similar nature having minimum cost of Rs. 500 million or above in last ten (10) years. Full Twenty-five (25) Points are given if the contractor has completed two or more projects having minimum cost of Rs. 500 million or above of similar nature in last ten (10) years.
Total Allocated Points	35	

5.5.3. Personnel Capability

1) PersonnelCapabilityforConstructionfirm

PersonnelCapabilityofConstructioncompleted (Form A-4)willbeevaluatedonthebasisof following Points:

a) KeyPersonnelfor constructionfirms:

KeyPersonnel		Points
i.	Project Manager	6
ii.	Site Engineer	4
iii.	Material Engineer	3
iv.	Scheduling/Planning Engineer	3

v.	Quantity Surveyor	2
vi.	Surveyor /Site Supervisor	2
	Total Points	20

(Information regarding education qualification, total work experience and specific work experience is to be supported by documents such as copy of education qualification certificate/degree or any other relevant documents and CVs of concerned personal proposed for the above position must be signed by concerned personal himself Engineers should have valid PEC Certificates. Bidder shall ensure availability of all above personal throughout the currency of the Contract.)

Pointsforconstruction's firm key personnel will be given on the basis of the following criteria:

Project Manager (Form A-4 and A-5)

(Must be Bachelor inCivil Engineering from HEC Recognized University)

	Points
Total workExperience	
Morethan 15 years	3.0
10 – 15 years	2.0
05 – 10 years	1.0
Specific Experience (Project Manager)	<u> </u>
Morethan five (05) projects (worth 100 million and above)	3.0
03 – 05 projects (worth 100 million and above)	2.0
01 – 02projects (worth 100 million and above)	1.0

Site Engineer (Form A-4 and A-5)

(Must be Bachelor in Civil Engineering from HEC Recognized University)

	Points
Total work Experience (years)	
More than 10 years	2.0
05 – 10 years	1.0
03-05 years	1.0
Specific Experience (years)	
More than five (05) projects (worth 100 million and above)	2.0
03 – 05 projects (worth 100 million and above)	1.0
01 – 02 projects (worth 100 million and above)	1.0

Material Engineer (Form A-4 and A-5)

(Must be at least Bachelor in Civil/Geology from HEC Recognized University)

	Points
Total work Experience	
More than 06 years	1.5

04-06 years	1.0
02-04 years	0.5
Specific Experience (Material Engineer)	
More than five (05) projects (worth 100 million and above)	1.5
03 – 05 projects (worth 100 million and above)	1.0
01 – 02 projects (worth 100 million and above)	0.5

Scheduling/Planning Engineer (Form A-4 and A-5)

(Must be Bachelor in Civil Engineering)

	Points
Total workExperience	
Morethan 06 years	1.5
04 – 06 years	1.0
02 – 04 years	0.5
Specific Experience (Scheduling/Planning Engineer)	
More than five (05) projects (worth 100 million and above)	1.5
03 – 05 projects (worth 100 million and above)	1.0
01 – 02 projects (worth 100 million and above)	0.5

Quantity Surveyor (Form A-4 and A-5)

(Must be at least Diploma in Civil Engineering)

	Points
Total workExperience	
More than 05 years	1.0
03-05 years	0.5
01-03 years	0.5
Specific Experience (Quantity Surveyor)	
More than five (05) projects (worth 100 million and above)	1.0
03 – 05 projects (worth 100 million and above)	0.5
01 – 02 projects (worth 100 million and above)	0.5

Surveyor / Site supervisor (Form A-4 and A-5)

(Must be at least Diploma in Civil Engineering or Certificate holder in Surveying from

registered institute/organization)

	Points
Total workExperience(years)	
Morethan 05 years	1.0
03 – 05 years	0.5
01 – 03 years	0.5
SpecificExperience(years)	
More than five (05) projects (worth 100 million and above)	1.0
03 – 05 projects (worth 100 million and above)	0.5
01 – 02 projects (worth 100 million and above)	0.5

5.5.4 Construction Equipment Capabilities

The applicant should own, or have assured access to (through rented, lease, purchase agreement or other means), the following key equipment (limited to only major items of equipment) in full working order, and must demonstrate that, based on known commitments, these will be available for deployment on the proposed contract or works (Form A-6).

Points will be given on the basis of the following criteria:

S.NO.	EQUIPMENT DESCRIPTION	REQUIRED (NOS.)	POINTS
1	Excavator	02	4
2	Dump Truck	01	2
3	Tractor with loader (Shovel) &Trolley	01	2
4	Water Bowser	01	2
5	Pick up	01	1
6	Generator	01	1
7	Scaffolding&Shuttering	200 SQ.M	1
8	Plate Compactor	01	1
9	Concrete mixer machine	01	1
	Total		

Note: For owned equipment's,full points will be allocated, whereas for hired equipment's 70% points will be allocated for bidders who furnish hire/lease agreement.

6. LITIGATION HISTORY

The applicant should provide accurate information of all litigation or arbitration resulting from contracts completed or under execution over the last ten years (**Form A-7**). A consistent history of award against the applicant may result in rejection of the application.

In case any submission provided by the firm before bidding and thereafter are found to be incorrect, the Contract awarded to it may be considered for termination.

7. JOINT VENTURE (JV)

Joint Venture (JV) is allowed.

8. CONFLICT OF INTEREST

The applicant has not been associated in the past, with the consultant or any other entity that has prepared the design, specifications, and other post qualification and bidding documents for the project, or was proposed as Engineer for the contract. Any such association may result in disqualification of the applicant.

ANNEXURE-A

Letter of Application

[Letterhead paper of the Applicant, or partner responsible for a joint venture, including full postal address, telephone no., fax no., telex no., cable and e-mail address]

Date:

To: Director (Civil Maintenance)
Port Qasim Authority
Bin Qasim, Karachi -75020

Sirs,

- 2. Attached to this letter are copies of original documents defining¹:
 - (a) the Applicant's legal status;
 - (b) the principal place of business; and
 - (c) the place of incorporation (for applicants who are corporations); or the place of registration and the nationality of the owners (for applicants who are partnerships or individually-owned firms).
- 3. Your Agency and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects. This Letter of Application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information

deemed necessary and requested by yourselves or the authorized representative to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the applicant.

4. Your Agency and its authorized representatives may contact the following persons for further information, if needed.

General and Managerial Inquiries		
Contact 1	Telephone 1	
Contact 2	Telephone 2	

Personnel Inquiries		
Contact 1	Telephone 1	
Contact 2	Telephone 2	

Technical Inquiries		
Contact 1	Telephone 1	
Contact 2	Telephone 2	

Financial Inquiries		
Contact 1	Telephone 1	
Contact 2	Telephone 2	

- 5. This application is made with the full understanding that:
 - (a) bids by Qualified applicants will be subjected to verification of all information submitted for Qualification at the time of bidding;
 - (b) Your Agency reserves the right to:
 - (i) amend the scope and value of any contract under this project; in such event bids will only be called from Qualified bidders who meet the revised requirements; and
 - (ii) reject or accept any application, cancel the Qualification process, and reject applications; and
 - (c) Your Agency shall not be liable for any such actions and its consequences and under no obligation to inform the applicant of the grounds for actions at 5(b) here above.

- 6. We certify that the information provided in Qualification document is correct and final to the best of our knowledge and nothing contained herein, is contrary to the facts as available with the firm's official record and that PQA has complete right to disregard our application should it fail to meet any of their Qualification criteria.
- 7. The undersigned declare that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail.

Signed	
Name	
For and on behalf of	
(Name of Applicant)	

APPLICATION FORMS

General Information

All individual firms applying for qualification are requested to complete the information in this form. Nationality information is also to be provided for foreign owners as required under the PEC Bye-Laws.

1.	Name of Firm	
2.	Head Office Address	
3.	Telephone	Contact Person: Name: Title:
4.	Fax	Telex
5.	Place of Incorporation/Registration	Year of incorporation/registration

NATIONALITY OF OWNERS				
NAME NATIONALITY				
1.				
2.				
3.				
4.				
5.				

Application Form A-2

Experience of Similar Projects Completed

	Name of Applicant:
,	Applicants and each partner to an application should provide information on their completed
(contracts along with taking over certificate.

Use a separate sheet for each contract.

1.	Name of Contract
	Country
2.	Name of Employer
3.	Employer Address
4.	Nature of works and special features relevant to the contract for which the Applicant wishes to prequalify
5.	Contract Role (Tick One) (a) Main Contractor (b) Sub- Contractor (c) Member in a Joint Venture
6.	Value of the total contract (in specified currencies) at completion, or at date of award for current contract
	Contract Price Currency
7.	Equivalent in Pakistani Rupees
8.	Date of Award
9.	Date of Completion
40	Contract Duration (Years and Months)
10.	YearsMonths

Financial Capability

Name of Applicant:		

Applicants should provide financial information to demonstrate that they meet the requirements stated in the Instructions to applicants. Each applicant must fill-in this form. If necessary, use separate sheets to provide complete banker information. A copy of the audited balance sheets should be attached.

	Name of banker		
	Address of banker		
Banker	Banker		
	Telephone	Contact name and title	
Fax Telex			

Summarize actual assets and liabilities in Pak Rupees (Equivalent at the current rate of exchange at the end of each year) for the <u>last five years</u>, based upon known commitments, projected assets and liabilities in Pak Rupees.

Financial information in Pak Rupees or			ual: ree (03) year		
equivalent	2023	2022	2021	2020	2019
1. Total assets					
Current assets					
3. Total liabilities					
Current liabilities					
5. Profits before taxes					
6. Profits after taxes					

Specific proposed sources of financing to meet the cash flow of the Project, net of current commitments (Instructions to Applicants, para 5.5.1).

Source of Financing	Amount (Pak Rupees or equivalent)
1.	
2.	
3.	
4.	

Attach audited financial statements for the last three years (for individual applicant).

In case of Foreign Firms, if audits are not required by the laws of their countries of origin, they shall submit their balance sheets certified by a registered accountant, and supported by copies of tax returns.

Annual Turnover

The information supplied should be the annual turnover of the Applicant, in terms of the amounts billed to clients for each year for work in progress or completed over the last **five years**.

ANNUAL TURNOVER				
YEAR	TURNOVER (In actual currency)	EQUIVALENT PAK RUPEES (in millions)		
1.				
2.				
3.				
4.				
5.				

Personnel Capabilities

Name of Applicant:		

For specific positions essential to contract implementation, Applicants should provide the names of candidate qualified to meet the specified requirements stated for each position in Para 3.5.3. The data on their experience should be supplied on separate sheets using one Form for each candidate (Application Form A-5) along with **CVs of candidates**.

S. No.	Title of Position	Name of Personnel
1.	Project / Construction Manager	
2.	Site Engineer (Civil)	
3.	Material Engineer	
4.	Scheduling / Planning Engineer	
5.	Quantity Surveyor	
6.	Surveyor / Site Supervisor (Civil)	

Form A-5 Candidate Summary

Name of Applicant:					
	Position	Candidate [Tick app	ropriate one]		
		□Prime	☐ Alternate		
Candidate 1. Name of Candidate information		2. Date of Birth			
3. Professional Qualification					
Present employment	4. Name of employer				
	Address of employer				
	Telephone	Contact (manager/pe	ersonnel officer)		
	Fax	Telex			
	Job title of candidate	Years with present e	mployer		
			-		

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project.

Month/ Dates/Years		Company / Project / Position / Relevant technical and management experience
From	То	

Construction Equipment Capabilities Name of Applicant:

capability to r	meet the requirements for each and applicants. A separate Form shall be	o demonstrate clearly that he has the I all items of equipment listed in the e prepared for each item of equipmen or for alternative equipment proposed by	
the Applicant.			
	Item of Equipm	ent 	
Equipment information	1. Name of manufacturer	2. Model and power rating	
imormation	3. Capacity	4. Year of manufacture	
Current status	5. Current location		
Status	6. Details of current commitments		
Source	7. Indicate source of the equipment		
□ Owned □ Rented □ Leased			
Omit the follow	ring information if it is owned by the Ap	plicant or partner.	
Owner	8. Name of owner		
	9. Address of owner		
	Telephone	Contact name and title	
	Fax	Telex	
Agreement Details of rental/lease specific to the Project.		Project.	

Litigation History

•				
	Name of Applicant:			

Applicants should provide information on any history of litigation or arbitration resulting from contracts executed in the last ten years or currently under execution (Instructions to Applicants, Para 5).

Year	Award FOR or AGAINST Applicant	Name of Client, Cause of Litigation, and matter in dispute	Disputed Amount (Current value in PKR)

Additional Information

Name of Applicant:

Additional Information

- 1. Valid certificate of Registration with Pakistan Engineering Council.
- 2. Certificate of registration with Income Tax Department in Pakistan and Income Tax Return for the last three years.
- 3. Certificate of registration with Sindh Revenue Board.
- 4. An affidavit to the effect that the Applicant has never been black-listed by any previous employer.
- 5. An affidavit to the effect that all documents / particulars / information given with this qualification document are true.
- 6. An affidavit to the effect that the Applicant has never indulged in corrupt, fraudulent or collusive practice for procuring contracts.
- 7. An affidavit to the effect that the firm is not presently involved nor has been in the past in litigation with its employers. Should this be otherwise the Applicant must provide such details in form A-9 "Litigation History".
- 8. Integrity Pact attached as Application Form A-9 duly signed.
- 9. Any other pertinent information in support of this qualification should also be furnished.

Disqualification of Supplier and Contractors,

"PQA shall disqualify any applicant if it finds, at any time, that the information submitted by him concerning his qualification is false and materially inaccurate or incomplete."

Application Form A-9

Integrity Pact

DECLARATION OF FEES, COMMISSIONS AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS/CONTRACTORS OF GOODS, SERVICES & WORKS

[the Seller/Supplier/Contractor] hereby declares its intention not to obtain or induce the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing, [the Seller/Supplier/Contractor] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or including the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from (GoP), except that which has been expressly declared pursuant hereto.

[The Seller/Supplier/Contractor] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with (GoP) and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[The Seller/Supplier/Contractor] accepts full responsibility and strict liability for making any false declaration, not making full disclosures, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation or warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to (GoP) under any law, contract or other instrument, be avoidable at the option of (GoP).

Notwithstanding any rights and remedies exercised by (GoP) in this regard, [the Seller/Supplier/Contractor] agrees to indemnify (GoP) for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to (GoP) in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [the Seller/Supplier/Contractor] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from (GoP).

Name of Employer	Name of Applicant

Signature	Signature
Seal	Seal



PORT QASIM AUTHORITY CIVIL MAINTENANCE DEPARTMENT

"Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone, PQA"

VOLUME - II

INVITATION FOR BIDS
INSTRUCTIONS TO BIDDERS
BIDDING DATA
EVALUATION CRITERIA & QUALIFICATION UPDATING FORMS
LETTER &SCHEDULES OF BID
FORMS OF BID
CONDITIONS OF CONTRACT (PART I & II)
SPECIFICATIONS - TECHNICAL & SPECIAL PROVISIONS
DRAWINGS

MAY, 2024



Jechno-Consult International (Pvt.) Ltd.

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Invitation forBids

INVITATIONFORBIDS

Invitation forBids 2

[NameofthePrequalifiedBidder]

INVITATIONFORBIDS				
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Date:
Loan/Credit No.(if any):
BidReferenceNo.(ifany):
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1. The <u>Director (Civil Maintenance)</u>, <u>PQA</u>("The Employer") has applied for /received a funding from the <u>Port Qasim Authority</u> towards the cost of <u>Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone</u>, <u>PQA</u> and it is intended that part of the proceeds of this funding will be applied to eligible payments under the Contract for the

Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone, PQA which includes main water supply pipeline and system with 18" HDPE main water supply pipeline in Port area. This includes all the auxiliary and supplementary works needed to increase the bulk water supply capacity of 2 MGD.

- 2. The Employer invites sealed bids on **single stagetwo- envelope** bidding procedure basis from eligible bidders prequalified for the above stated Works.
- 3. Biddersmayobtainfurtherinformationfrom,inspectatandacquiretheBiddingDocumentsfromt heofficeoftheEmployer,at

Director (Civil Maintenance) PQA Building No.3 Port Qasim Authority Bin Qasim, Karachi -75020

Tele: +92-21-99272158

- 4. A complete set of Bidding Documents may be purchased by an interested Bidder onsubmission of a written application to the above office and upon payment of a non-refundable fee of PKR.5,000.
- 5. BidsmustbeaccompaniedbyaBidSecurityintheamountofPKR.15.0 Million (Pakistani Rupees Fifteen Million) in anequivalentamountinafreelyconvertiblecurrency, and mustbedelivered to Director (Civil Maintenance), PQA Building No.3, Port Qasim Authority, Bin Qasim, atorbefore 1200 hours, of _____, 2024. Bidswillbeopenedat 1230 hourson the same day, inthepresence of Bidder's representatives who choose to attend at the same address.
- 6. Bidders wishing to offer discounts, shall be allowed to do so, provided those discounts are included in the Bids.

TITLE OF DOCUMENT:

INSTRUCTIONSTOBIDDERS(IB)

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INSTRUCTIONSTOBIDDERS

[Mandatory Provisions not to be amended/substitutedexceptasinstructedbyPECinwrit ing]

A. GENERAL

IB.1 ScopeofBid

1.1 The Employer as defined in the **Bidding Data** herein after called "the Employer" wishest or eceive bids for the construction and completion of works as described in these Bidding Documents, and summarized in the **Bidding Data** herein after referred to as the "Works".

1.2

The successful Bidder will be expected to complete the Works within the time specified in the **Bidding Data**.

IB.2 Sourceof Funds

2.1 The Employer has applied for/received a funding from the source(s) in various currencies towards the cost of the projectspecified in the **Bidding Data** and it is intended that part

of the proceeds of this funding will be applied to eligible payment sunder the Contract for which these Bidding Documents are issued.

IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all Bidders meeting thefollowing requirements at the time of submission of Bids andthereafter:
 - (a) Dulyprequalifiedforthisbiddingprocess;
 - (b) DulylicensedbythePakistanEngineeringCouncil(PEC) in the category relevant to the value of the Worksintherelevantfield of specialization.

However, a Foreign Constructor can submit provisionallicence with its Bid but the Foreign Constructor will berequiredtosubmitstandardlicenceafterawardofContract and beforestart ofwork.

ForeignConstructorshallnotbeeligibletoparticipatein bidding individually. Foreign Constructor shall enterinto joint venture with Pakistani Constructor registeredwiththePakistanEngineeringCouncilinequivale nt/compatiblecategoryandsubmitthejointventure agreement to the Employer before participatingin bidding in accordance with PEC Construction andOperationof EngineeringWorksBye-laws,1987;

- (c) Pakistani Constructor must be on Active Taxpayer Listof the Federal Board of Revenue and provincial revenueauthority/board whereapplicable;and
- (d) All partners constituting the Bidder including proposedsubcontractorsdonotappearin thelistofdebarred/blacklistedfirmsandindividualsonthew ebsitesofPEC and Federal & Provincial Procurement RegulatoryAuthoritiesandhavenotbeendeclareddebarred/

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otherforeign institutions.
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IB.4 Eligible Materials,E quipmentan dServices

- 4.1 All materials, equipment and services to be supplied underthisContractshallhavetheiroriginineligiblecountriesdesc ribedunder paragraph4.4hereunder.
- 4.2 For purpose of this Clause, "origin" means the place wherethe Goods are mined, grown or produced or from where theancillary services are supplied. Goods are produced when,through manufacturing, processing or substantial and majorassemblingofcomponents,acommerciallyrecognized productresults that is substantially different in basic characteristics or in purpose or utility from its components.
- 4.3 TheoriginofGoodsandServicesisdistinctfromthenationalityoft heBidder.
- 4.4 Eligible countries to participate in this bidding process arethosewhichhavebeennotifiedbyMinistryofInterior,Govern mentofPakistanasBusinessFriendlyCountries(BVL);informat ioncanbeaccessedthroughfollowinglink: http://www.dgip.gov.pk/Files/Visa%20Categories.aspx#L

IB.5 One Bid perBidder

5.1 Each Bidder shall submit only one Bid either by himself, or asapartnerinajointventure. ABidderwhosubmitsorparticipatesin morethanoneBid(otherthanalternativespursuanttoClauseIB.17) will bedisqualified.

IB.6 SiteVisit

6.1 TheBiddersare advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. All cost in this respect shall be at the Bidder's own expense.

6.2

TheBiddersandanyoftheirpersonneloragentswillbegranted permissionbytheEmployertoenteruponhispremisesand landsfor thepurposeof such inspection, butonlyupontheexpressconditionthattheBidders,theirpersonnel andagents,willreleaseandindemnifytheEmployer,hispersonnel andagentsfromandagainstallliability in respect thereof and will be responsible for death orpersonal injury, loss of or damage to property and any otherloss, damage, costs and expenses incurred as a result of suchinspection.

B. BIDDINGDOCUMENTS

IB.7 Contentsof BiddingDo cuments

7.1 TheBiddingDocuments,inadditiontoInvitationforBids,are those stated below and should be read in conjunction withanyAddenda issuedinaccordancewithClauseIB.9:

- 1.Instructionsto Bidders;
- 2.BiddingData;
- 3. Evaluation Criteria and Qualification Updating Forms;
- 4.GeneralConditions(GC);
- 5.ParticularConditions(PC):

PartA-ContractData;

PartB-SpecialProvisions;

6.Specifications(SP):

PartA-Specific Provisions;

PartB-TechnicalProvisions;

- 7.LetterofBid;
- 8. Schedulesto Bid;
- 9.StandardForms:
 - (i)Formof BidSecurity;
 - (ii)LetterofAcceptance;
 - (iii)Form of Contract Agreement;
 - (iv)Form of PerformanceSecurity;
 - (v)DAABAgreement;
 - (vi)Formof Mobilization AdvanceGuarantee;
- 10.Drawings.
- 7.2 The Bidders are expected to examine carefully the contents ofalltheabovedocuments. Failure to comply with the requirements of Bid submission will be at the Bidder's ownrisk.PursuanttoClauseIB.26,bidswhicharenotsubstantially responsive to the requirements of BiddingDocumentswillberejected.
- IB.8 Clarification of BiddingDoc uments,Pre-BidMeeting
- 8.1 AnyprospectiveBidderrequiringanyclarification(s)inrespectoft heBiddingDocumentsmaynotifytheEmployerinwritingattheE mployer'saddressindicatedintheInvitation for Bids. The Employer will respond to any requestforclarificationwhichhereceivesearlierthantheperiodspe cifiedintheBiddingData,priortothedeadlineforsubmissionof bids.
- 8.2 Copies of the Employer's response will be forwarded to allpurchasers of the Bidding Documents, including a description of the enquiry but without identifying its source.
- 8.3 The Employermay, on his own or at the request of any prospective Bidder(s), hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the Bidding Documents. The date, time and venue of pre-bid meeting,

ifconvened, are asstipulated in the **Bidding Data**. All prospective B idders or their authorized representatives shall be invited to attend such a pre-bidmeeting.

The Bidders are requested to submit questions, if any, in writing so as8.4 to reach the Employer not later than seven (7) days before the proposedpre-bidmeeting. TITLE OF DOCUMENT:

8.5 Minutesofthepre-

bidmeeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. Any modification of the Bidding Documents listed in Sub-Clause IB.7.1 hereof which may become necessary resultofthepreas a bidmeetingshallbemadebytheEmployerexclusively through issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.

8.6 Absenceatthepre-bidmeetingwillnotbeacausefordisqualificationofaBidder.

IB.9 Amendment of BiddingDo cuments

- 9.1 At any time prior to the deadline for submission of bids, the Employermay, for any reason, whether at his own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by issuing addendum.
- 9.2 AnyaddendumthusissuedshallbepartoftheBiddingDocuments listed in Sub-Clause IB.7.1 hereof and shall becommunicatedinwritingtoallpurchasersoftheBiddingDocuments. Prospective Bidders shall acknowledge receipt ofeachaddendumin writingto theEmployer.
- 9.3 Such addendum shall be issued not later than number of daysprior to the deadline for submission of bids, specified in the **Bidding Data**. To afford prospective Bidders reasonable timein which to take an addendum into account in preparing theirbids, the Employer may extend the deadline for submission of bids in accordance with Clause IB.20.

IB.10Costof C C. PREPARATIONOFBIDS Bidding

10.1TheBiddersshallbearallcostsassociatedwiththepreparation and submission of their respective bids and theEmployer will in no case be responsible or liable for thosecosts, regardless of the conduct or outcome of the biddingprocess.

IB.11Language of Bid

The Bid and all correspondence and documents related to 11.1 theBid exchanged by a Bidder and the Employer shall be in theBid language stipulated in the Bidding Data and ParticularConditionsofContract. Supportingdocuments andprintedliteraturefurnishedbytheBiddersmaybeinanyotherla nguageprovidedthesameareaccompaniedbydulycertified translation parts of the relevant Bid language,inwhichcase,forpurposesofevaluationofthebid,thetra nslationin Bidlanguageshallprevail.

IB.12Documents Comprising theBid

12.1 EachBiddershall:

(a) submit duly filled in, signed and stamped Letter of Bidand completed Schedules to Bid as required, including priced Billof Quantities, in accordance with Claus eIB.18 hereof;

- (b) submit Bid Security in accordance with Clause IB.16hereof;
- (c) submitalternative proposal, if permissible in accordance with Clause IB. 17;
- (d) submitawrittenpowerofattorneyauthorizingthesignatory of the Bid to act for and on behalf of theBidder. Thenameandpositionheldbyeachpersonsigningtheauthor izationmustbetypedorprintedbelowthesignature;
- (e) submit the Qualification Updating Forms duly filled in, signed and stamped along with requisite attachments, to establish that the Bidder continues to meet the Eligibility and Qualification Criteria set out in the Pre-Qualification Documents and as provided in the Section "Evaluation Criteria and Qualification Updating Forms";
- (f) furnishatechnicalproposaltakingintoaccountthevariousS chedulestoBid,speciallythefollowing:

Schedule-C to Bid,Proposed Construction Schedule;Schedule-D to Bid,Method of Performing the Work;Schedule-Eto Bid,List ofMajor Equipment; Schedule-FtoBid,OrganizationChartforSupervisory Staff;

and other pertinent information, such as mobilization program me, etc.

- 12.2 Bids submitted by a joint venture of two (2) or more firmsspecified in **Bidding Data**, shall comply with the following requirements:
 - (a) the bid, and in case of a successful bid, the Form of Contract Agreement shall be signed by all members soasto belegally binding on all partners;
 - (b) one of the joint venture partners shall be nominated asbeingin-charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
 - (c) the partner-in-charge shall always be duly authorized todealwith the Employer regarding allmatters related with and/or incidental to the execution of Works as perthe terms and Conditions of Contract and in this regardto incur any and all liabilities, receive instructions, givebinding undertakings and receive payments on behalf of the joint venture;
 - (d) all partners of the joint venture shall at all times andunder all circumstances be liable jointly and severallyfortheexecutionoftheContractinaccordancewith the

Contract terms and a statement to this effect shall beincludedintheauthorizationmentionedunderSub-Para(b) above as well as in the Letter of Bid and in theForm of Contract Agreement (in case of a successfulbid); and

- (e)acopyoftheagreemententeredintobythejointventure partners shall be submitted with the bid statingthe conditions will under which it function. its period ofduration, the person sauthorized to represent and obligate i tandwhichpersonswillbedirectlyresponsible for of performance the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation and corresponding duties& responsibilities of the several firms forming the jointventure, and any other information necessary to permit a fullappraisalofitsfunctioning. Noamendments/modificati ons whatsoever in the joint venture agreementshall be agreed to between the joint venture partners without prior writtenconsentoftheEmployer.
- 12.3 Biddersshallalsosubmitproposalsofworkmethodsandschedule, in sufficient detail to demonstrate the adequacy oftheBidders'proposalstomeetthetechnicalspecificationsandth ecompletiontimereferredtoinSub-ClauseIB.1.2hereof.

IB.13 BidPrices

- 13.1 The price and discount if any quoted by the Bidders in the Letter of Bid and in the Bill of Quantity shall conform to therequirements pecified below:
- 13.2 TheBiddershallquoteanydiscountsandthemethodologyfortheir application.
- 13.3 If bids are being invited for individual lots (contracts) or forany combination of lots, the Bidders can offer discounts forthe individual lots (contracts) as well as for award of morethanoneContractand shall specifyintheirbid.
- 13.4 UnlessstatedotherwiseintheBiddingDocuments,theContract shall be for the whole of the Works as described inSub-ClauseIB.1.1hereof,basedontheunitratesand/orprices.
- 13.5 The Bidders shall fill in rates and prices for all items of the Worksdescribed in the Billof Quantities. Items against which no rate or price is entered by a Bidder will not be paid for by the Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.
- 13.6 All duties, taxes and other levies payable by the Contractorunder the Contract, or for any other cause, as on the date 28days prior to the deadline for submission of bids shall beincludedintheratesandpricesandthetotalBidPricesubmittedb

ya Bidder.

Additional/reduced duties, taxes and levies due to subsequentadditionsorchangesinlegislationshallbereimbursed/deducted as per Sub Clause 13.6 [Adjustment for Changes inLaws] of the Conditions of Contract.

13.7The rates and prices quoted by the Bidders are subject toadjustmentduringtheperformanceoftheContractinaccordance withtheprovisionsofSub-Clause13.7[Adjustments for Changes in Cost] of the General ConditionsofContract.TheBiddersshallfurnishtheprescribedinf ormation for the price adjustment formulae in Schedule-Ato Bid, and shall submit with their bids such other requisitesupportinginformationifrequired underthesaidSchedule.

IB.14 Currencies of Bid andPayme nt

14.1 The unit rates and the prices shall be quoted by the BidderentirelyPKR.

A Bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer's country (referred to as the "Foreign Currency Requirements") shall indicate in Table III of Schedule-A to Bid the proportion of the Bid Price (excluding Provisional Sums) needed by himfor the payment of such Foreign Currency Requirements; insuch case the unit rates and the prices shall be quoted by the Bidderin Equivalent PKR.

14.2 The rates of exchange to be used by the Bidder for currencyconversionshallbetheTTSellingRatespublishedorauth orizedbytheStateBankofPakistanprevailingonthedatetwentyeig ht(28)dayspriortothedeadlineforsubmissionofbids.Suchratessh allbenotifiedbytheEmployernotlaterthanfourteen(14)daysprior tothedeadline for submission ofBids.

For the purpose of payments, the exchange rates used in Bidpreparationshallapplyforthe duration of the Contract.

IB.15 BidValidity

15.1 Bidsshallremainvalidfortheperiodstipulatedinthe **BiddingData**afterthedateofBidOpeningspecifiedinClause
IB.23.

15.2Inexceptionalcircumstances, priortoexpiryoftheoriginal bidvalidit yperiod, the Employer may request that the Bidders extend the period of validity for a specified additional period which normally may not be more than the original bidvalidity period. The request and the responses thereto shall be made in writing. A Bidder may refuse the request without for feiting his Bid Security. A Bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.16 in all respects.

IB.16 BidSecurity

16.1 EachBiddershallfurnish,aspartofhisbid,aBidSecurityinoriginal form in the amount stipulated in the **Bidding Data** inPKR or an equivalent amount in a freely convertible currency.

16.2 The Bid Security shall be, at the option of the Bidder, in theform of Call Deposit Receipt (CDR)/ Pay Order or a SecurityissuedintheprescribedformincludedintheBiddingDocu ments, by (a) a Scheduled Bank in Pakistan or (b) aforeign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the BiddingData and rated by PACRA/VIS of rating as provided in Tablebelow in favour of the Employer valid for a period 14 daysbeyondtheBidValiditydate. TheBidSecurityofJointVenture shall be in the name of Joint Venture or Lead/eitherFirmof theJVor inratioofsharesof the individual JVpartners, submittingthebid.

Minimum Rating ofInsuranceCompani es
A(+)
AA

[Note:InsuranceCompanyincludesJointVenturesofInsurance Companies also]

- 16.3 Any Bid not accompanied by an acceptable Bid Security shallbe rejected by the Employer as non-responsive.
- 16.4 The Bid Securities of the Bidders except the lowest three willbe returned by the Employer within twenty eight (28) daysfrom the opening of Bids, provided a Bidder requests for thereturnofitsBidSecurity,orupontheexpiryoforiginalvalidityof BidSecurityorasextended,whicheverisearlier.
- 16.5 The Bid Security of the lowest three Bidders including the successful Bidder will be returned when the successful Bidderhasfurnished the required Performance Security.
- 16.6 TheBidSecuritymaybeforfeited:
 - (a) iftheBidderwithdrawshisbidexceptasprovidedinSubCla useIB.22.1;
 - (b) iftheBidderdoesnotacceptthecorrectionofhisBidPrice pursuant toSub ClauseIB.28.2hereof;or
 - (c) inthecaseofsuccessfulBidder,failstofurnishtherequiredP erformanceSecurity.
- 16.7 In case of annulment, all Bids submitted and specially, Bidsecurities, shall be returned to the Bidders within 14 days of annulment.

IB.17Alternative Proposals byBidder

- 17.1 Unless otherwise specified in the **Bidding Data**, alternative proposal (s) shall not be considered.
- 17.2 Should any Bidder consider that he can offer any advantagestothe Employer by amodification to the designs, specifications or other conditions, he may, in addition to his Bid to be submitted in strict compliance with the

Bidding Documen ts,submit anyaltern ativeprop osal(s)co ntaining(a)

- relevant design calculations; (b) technical specifications; (c)proposedconstructionmethodology;and(d)anyotherrelevant details/conditions, provided always that the total sumentered on the Letter of Bid shall be that which representscomplete compliance withthe BiddingDocuments.
- 17.3 Alternativeproposal(s),ifany,oftheBidderhavingsubmitted most advantageous Bid only may be considered bythe Employer as the basis for the award of Contract to suchBidder.

IB.18Format and SigningofBid

- 18.1 Bidders are particularly directed that the amount entered on the Letter of Bid shall be for performing the Contract strictlyinaccordancewiththeBiddingDocuments.
- 18.2 AllSchedulestoBidare tobeproperlycompletedandsigned.
- 18.3 No alteration is to be made in the Letter of Bid nor in the Schedules thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the Bid may be rejected.
- 18.4 Each Bidder shall prepare by filling in the forms completelyandwithoutalterationsone(1)originalandnumberofc opies, specified in the **BiddingData**, of the documents comprising the Bid as described in Clause IB.12 and clearly mark them "ORIGINAL" and 'COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
 - TheBiddershallalsoprovidecompletesearchablePDFversions as well as Word, Excel, etc., versions of the Bid if sorequiredintheBidding Data.
- 18.5 The original of the Bid shall be typed or written in indelibleink and shall be signed by a person or persons duly authorizedtosignonbehalfoftheBidderpursuanttoSub-ClauseIB.12.1(d) hereof. All pages of the Bid shall be initialled andstampedby thepersonorpersonssigning the bid.
- 18.6 The Bid shall contain no alterations, omissions or additions, except to comply with instructions issued by the Employer, orasarenecessary to correcterrors made by the Bidder, in which cases uch corrections shall be initialled by the person or persons signing the Bid.
- 18.7 Bidders shall indicate in the space provided in the Letter ofBid their full and proper addresses at which notices may belegally served on them and to which all correspondence inconnectionwiththeir bids and the Contractistobe sent.
- 18.8 Bidders should retain a copy of the Bidding Documents andthe Bidastheir filecopy.
- 18.9 Alldocuments executed outside Pakistan required to be submitted with the Bidmust becertified by Pakistani Embassy in the respective country (ies).

D. SUBMISSIONOFBIDS

IB.19Sealingand Marking ofBids

- 19.1 EachBiddershallsubmithisBidasunder:
 - (a) ORIGINALandeachcopyoftheBidshallbeseparatelyseale dandputinseparateenvelopesandmarkedassuch.
 - (b) The envelopes containing the ORIGINAL and copieswillbeputinonesealedenvelopeandaddressed /identifiedasgivenin SubClauseIB.19.2hereof.
- 19.2 Theinnerandouterenvelopesshall:
 - (a) beaddressedtotheEmployerattheaddressprovidedinthe **Bidding Data**;
 - (b) bear the specific identification of this bidding process asspecified in the **Bidding Data**; and
 - (c) provideawarningnottoopenbeforethetimeanddateforbid opening, asspecified in the **Bidding Data**.
- 19.3 InadditiontotheidentificationrequiredinSub-ClauseIB.19.2 hereof, the inner envelope shall indicate the name andaddressoftheBiddertoenabletheBidtobereturnedunopenedi ncaseitisdeclared"late"pursuanttoClauseIB.21.
- 19.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacementorpremature opening of the Bid.

IB.20Deadline for Submission ofBids

- 20.1 (a) Bids must be received by the Employer at the addressspecified no later than the time and date stipulated inthe **Bidding Data**.
 - (b) Bids with charges payable will not be accepted, norwill arrangements be undertaken to collect the bidsfromanydeliverypointotherthanthatspecifiedabove .Biddersshallbearallexpensesincurredinthe preparation and delivery of Bids. No claims will beentertainedfor refundofsuch expenses.
 - (c) Where delivery of a Bid is by mail and the Bidderwishes to receive an acknowledgment of receipt of such Bid, he shall make a request for such acknowledgme ntinase parateletter attached to but not included in the sealed Bidenvelope.
 - (d) Upon request, acknowledgment of receipt of Bids willbe provided to those making delivery in person or bymessenger.
- 20.2 The Employer may, at his discretion, extend the deadline forsubmission of Bids by issuing an amendment in accordancewithClauseIB.9,inwhichcaseallrightsandobligations ofthe Employer and the Bidders previously subject to the originaldeadlinewillthereafterbesubjecttothedeadlineasextende d.

IB.21 LateBids

- 21.1 (a) AnyBidreceivedbytheEmployerafterthedeadlinefor submission of bids prescribed in Clause IB.20 shall bedeclared late, rejected and returned unopened to suchBidder.
 - (b) Delaysinthemail, delays of person intransit, or deliver vofaBidtothewrongofficeshallnotbeaccepted failure excuse for to deliver Bid at theproperplaceandtime. It shall be the Bidder's responsibilit determine the manner timelydeliveryofhisBidwillbeaccomplishedeitherinperso n,by messenger orby mail.

IB.22Modification, Substitutionan dWithdrawal ofBids

- 22.1 Any Bidder may modify, substitute or withdraw his Bid afterBid submission provided that the modification, substitution orwrittennoticeofwithdrawalisreceivedbytheEmployerpriortot hedeadline for submissionof bids.
- 22.2 Themodification, substitution, or notice for withdrawal of any Bid shall be prepared, sealed, marked and delivered inaccordance with the provisions of Clause IB.19 with the outerandinner envelopes additionally marked "MODIFICATIO N", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.
- 22.3 No Bid may be modified by a Bidder after the deadline forsubmission of Bids except in accordance with Sub Clauses IB. 22.1 and 28.2.
- 22.4 Withdrawal of a Bid during the interval between the deadline for submission of Bids and the expiration of the period of Bidvalidity specified in the Letter of Bid may result in forfeiture of the Bidsecurity in pursuance to Clause IB.16.

E. BIDOPENINGANDEVALUATION

IB.23 BidOpening

- The Employer will open the Bidsincluding with drawals, substitution and modifications made pursuant to Clause IB.22, in the presence of Bidders' representatives who choose to attend, at the time, date and location stipulated in the Bidding Data. The Bidders' representatives who are present shall signare gister evidencing their attendance.
 - 23.2 Envelopes marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" shall be opened and read out first. Bidsforwhichanacceptablenoticeofwithdrawalhasbeensubmitt ed pursuant to Clause IB.22 shall not be opened. Onlybids that are opened and read out at Bid opening shall beconsideredfurther.
 - 23.3 TheBidder'sname,totalBidPriceandpriceofanyalternativepropo sal(s),anydiscounts,Bidmodifications,substitution and withdrawals, the presence or absence of Bidsecurity, and such

other details as the Employer may consider appropriate, will be announced by the Employer at the opening of Bids. Only discounts and alternative proposals

readoutatBidopeningshallbeconsideredforevaluation. The Lette rofBidandthe Summary Billof Quantities are to be initialled by representative(s) of the Employer attending Bid opening. The Employer shall neither discuss the merits of any Bidnorrejectany Bid (except for late Bids, in accordance with Sub-Clause IB 21.1).

23.4 The Employershall prepareminutes of the Bidopening, including the information disclosed to those present in accordance with the Sub-Clause IB.23.3.

IB.24Processto be Confidential

24.1Informationrelatingtotheexamination, clarification, evaluation and comparison of Bids and recommendations forthe award of Contract shall not be disclosed to Bidders or anyother person not officially concerned with such process beforethe announcement of the result of Bid evaluation in the formof final evaluation report giving justification for acceptance orrejection of Bids which shall be done at least fifteen (15) daysprior to award of Contract. The announcement to all Bidderswill include table(s) comprising read out prices, discountedprices, priceadjustments made, finale valuated pricesa ndrecommendations against all theBids evaluated. Any effortby a Bidder to influence the Employer's processing of Bids or Contract award decisions may result in the rejection of suchBidder'sBid.WhereasanyBidderfeelingaggrievedmaylodg e a written complaint not later than five (5) days after theannouncementofthefinalevaluation report.

IB.25Clarification of Bids

- 25.1 To assist in the examination, evaluation and comparison of Bids, the Employer may, at his discretion, ask any Bidder forclarification of his Bid, including breakdowns of unitrates and lump sum prices. Any clarification submitted by a Bidderthat is not in response to a request by the Employer shall notbe considered. The request for clarification and the responses hall be in writing. No change in the price or substance of the Bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with Clause IB.28.
- 25.2 TheEmployermay,athisdiscretion,askanyBidderforconfirmatio n/submission of missing information to clarify itsBid. However, the Employer does not have an obligation torequestanyadditionalinformationorclarificationwithrespectto missingordeficientinformationinaBid.TheEmployermayrejecta nyBidasnon-responsiveiffoundmateriallyincomplete,obscure,and irregularoromittinganymaterial information required to be submitted in accordancewiththeBidding Documents.
- 25.3 If a Bidder does not provide clarifications of its Bid by thedate and time set reasonably (not less than seven (7) days) in the Employer's request for clarification, the Employer mayproceedwith the evaluation based on the information submitted in the Bidwithout waiting for the Bidder's response.

IB.26ExaminationofBi ds andDeterminat ionofResponsiv eness

- 26.1 Prior to the comparison of Bids, the Employer will determinewhethereachBidissubstantiallyresponsivetotherequir ements of theBiddingDocuments.
- 26.2 The Employer's determination of a Bid's responsiveness is tobe based on the contents of the Bid itself, as defined in Sub-Clause IB.12.
- 26.3 AsubstantiallyresponsiveBidisonewhichmeetstherequirements oftheBiddingDocuments,withoutmaterialdeviation,reservation oromission.Amaterialdeviation,reservationoromissionisonetha t.
 - (a) ifaccepted, would:
 - (i) affectinanysubstantialwaythescope, quality or perform ance of the Works; or
 - (ii) limitinanysubstantialway,inconsistentwiththeBidding Documents,theEmployer'srightsortheBidder'sobligat ionsunderthe proposedContract;or
 - (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive B
- 26.4 Duringtheevaluation of Bids, the following definition sapply:
 - (a) "Deviation" isadeparture from the requirements specified in the Bidding Documents;
 - (b) "Reservation" is the setting of limiting conditions or with holding from complete acceptance of the requirements specified in the Bidding Documents; and
 - (c) "Omission" isthefailure to submit part or all of the information or documentation required in the Bidding Documents.
- 26.5 The Employer shall examine the technical aspects of the BidsubmittedinaccordancewithSub-ClauseIB.12.1(f),inparticular,toconfirmthatallrequirementsstat edinSpecifications have been met without any material deviation,reservationoromission.
- 26.6 If a Bid is not substantially responsive to the requirements ofthe Bidding Documents, it will be rejected by the Employer, and may not subsequently be made responsive by correction or with drawal of the non-conforming deviation, reservation or or mission.

IB.27Nonmaterial Nonconformities

- 27.1 Provided that a Bid is substantially responsive, the Employermaywaiveany nonconformities in the Bid.
- 27.2 Provided that a Bid is substantially responsive, the Employermay request that the Bidder submit the necessary informationordocumentation, within areasonable period of time, to rectify no material nonconformities in the Bidrelated to docume ntation requirements. Requesting information or

documentation on such nonconformities shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

27.3 Provided that a Bid is substantially responsive, the Employershall rectify quantifiable nonmaterial nonconformities related to the BidPrice. To this effect, the BidPrice shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component, by adding the average price of the item or component quoted by other lowest two evaluated substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Employershall use as uitable CSR, adjusted to the date 28 days earlier to the Bid submission date or its best assessment.

IB.28 Correctionof Arithmetic Errors

- 28.1 Bidsdeterminedtobesubstantiallyresponsivewillbechecked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
 - (a) where there is a discrepancy between the amounts infiguresandinwords, the amountinwords will govern.
 - (b) where there is a discrepancy between the unit rate andthe line item total resulting from multiplying the unitrate by the quantity, the unit rate as quoted will govern,unlessintheopinionoftheEmployerthereisanobvio uslygrossmisplacementofthedecimalpointinthe unit rate, in which case the line item total as quotedwillgovern andtheunitratewillbecorrected.
 - (c) ifthereisanerrorinatotalcorresponding to the addition or subtraction of subtotals, the subtotals shallprevailand the total shallbecorrected.
- 28.2 The amount stated in the Letter of Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidderdoes not accept the corrected BidPrice, his Bid will be rejected, and the Bid security shall be for feited in accordance with Sub Clause IB. 16.6(b) hereof.

IB.29 Evaluationand Comparison of Bids

- 29.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26. The Employer shall use the criteria and methodol ogies listed in this Clause. Noother evaluation criteria or methodologies shall be permitted.
- 29.2 Inevaluating and comparing the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the BidPrice as follows:
 - (a) making any correction for arithmetic errors pursuant to Clause IB.28;

- (b) price adjustment due to discounts offered in accordancewithSub-ClauseIB.23.3;
- (c) excludingProvisionalSumsandtheprovision,ifany,for contingencies in the Summary Bill of Quantities, butincludingcompetitively priceddaywork;
- (d) makinganappropriatepriceadjustmentforanyquantifiable nonmaterial nonconformities in accordancewithSub-ClauseIB.27.3;and
- (e) the additional evaluation factors are specified in SectionEvaluationCriteriaandQualificationUpdatingForms.
- 29.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the eContract, shall not be taken into account in Bids' comparison.

IB.30Abnormally LowBids

30.1 If the Bid Price of the successful Bidder is more than 15%below the lower of the Employer's estimate of the cost ofwork to be performed under the Contract or average of otherlowesttwoevaluatedsubstantiallyresponsiveBids,theEmpl over may require the Bidder to produce detailed priceanalyses for any or all items of the Bill of Quantities to demonst the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require anadditional Performance Security by 10% of the oftheBidPriceasdeterminedhereinaboveup issuanceofTakingOverCertificateattheexpenseofthesuccessful Bidder to a level sufficient to protect the Employer againstfinancial loss in the event of default of the successful BidderundertheContract.The Bids havingBidPricelowerthan25%shall beliabletoberejected.

IB.31 Unbalancedor Front LoadedBids

31.1If the Bid of the successful Bidder is seriously unbalanced(Front Loaded) in relation to the average evaluated substantially responsive Bids, the Employer during executionofcontractmaypayagainstmeasuredquantitiesofsignif icantly higher quoted line item(s) rate(s) with respect tosame line item(s) rate(s) determined from the average of otherlowesttwoevaluatedsubstantiallyresponsiveBidsasinstruct ed by the Engineer. The balance line item(s) rate(s)may be paid against the same measured quantities at the timeof issuance of Taking Over Certificate or as instructed by theEngineer.

F. AWARDOFCONTRACT

IB.32Award Criteria

32.1Subject to Clauses IB.33 and IB.39, the Employer will awardthe Contract to the Bidder whose Bid has been determined asmostadvantageousBid(substantiallyresponsivetorequirement softheBiddingDocumentswiththelowestevaluatedBid Price).

IB.33 Employer'sRi ghttoAnnulthe BiddingProces

33.1 NotwithstandingClauseIB.32,theEmployerreservestheright to annul the bidding process and reject all Bids, at anytime prior to award of Contract, without thereby incurring anyliabilitytotheaffected Biddersor any obligation.

The Employer shall upon request communicate to any Bidderwho submitted a Bid, the grounds for its rejection of all Bidsbut is not required to justify those grounds. Rejection of allBidsshall benotified to all Bidderspromptly.

IB.34 Notification of Award

34.1 Prior to expiration of the period of Bid validity prescribed bythe Employer, the Employer will notify the successful Bidderinwriting("LetterofAcceptance")thathisBid hasbeenaccepted. This letter shall name the sum which the Employerwill pay the Contractor in consideration of the execution and completion of the Works by the Contractor as prescribed bythe Contract (hereinafter and in the Conditions of Contractcalledthe"Accepted ContractAmount").

TheLetterofAcceptancewillalsostatetheremedieswithrespectto Sub-ClausesIB.30 &IB.31if applicable.

- 34.2 NonegotiationwiththeBidderhavingsubmittedmostadvantageo usBidoranyotherBiddershallbepermitted,however, Employer may have clarification meetings beforeissuing Letter of Acceptance to get clarified any item in theBidevaluationreport.
- 34.3 TheLetterofAcceptance/notificationofawardanditsacknowledg ement/acceptancebytheBidderwillconstitutethe formation of the Contract, binding the Employer and theBiddertill signing of the formalContractAgreement.
- 34.4 Upon furnishing by the successful Bidder of a PerformanceSecurity, the Employer will promptly notify the other Biddersthat their Bids have been unsuccessful and return their BidsecuritiesinaccordancewithSub-Clause IB.16.5.

IB.35 Performance Security

- 35.1 ThesuccessfulBiddershallfurnishtotheEmployeraPerformance SecurityintheformandtheamountstipulatedintheConditionsofC ontractandadditionalPerformanceSecurity if applicable under IB.30 as stated in the Letter ofAcceptance, within a period of 28 days after the receipt ofLetterof Acceptance.
- 35.2 FailureofthesuccessfulBiddertocomplywiththerequirements of Sub Clause IB.35.1 or Clauses IB.36 or IB.37shall constitute sufficient grounds for the annulment of theaward, forfeiture of the Bid security and to award the ContracttotheBidderhavingsubmittednext advantageousBid.

IB.36 Signing of Contract Agreement

36.1 Within14daysfromthedateoffurnishingofacceptablePerforman ce Security under the Conditions of Contract, theEmployerwillnotifythesuccessfulBiddertodeputeitsrepresen tative with appropriate Power of Attorney to sign theContractAgreementintheformprovidedintheBidding Documents,incorporatingallagreementsbetweentheparties.

36.2TheformalAgreementbetweentheEmployerandthesuccessful Bidder shall be executed within 14 days of thereceiptoftheabovestatednotificationbythesuccessfulBidderf rom the Employer.

IB.37 IntegrityPact 37.1 TheBiddershallsignandstamptheIntegrityPactprovidedat Schedule-J to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding PKR tenmillion. Failure to provide such Integrity Pact shall make theBiddernon-responsive.

IB.38Instructions not Part ofContract

38.1Bids shall be prepared and submitted in accordance with theInstructionstoBidderswhichareprovidedtoassisttheBidders in preparing Bids but do not constitute part of the Contract.

IB.39 Corruptand Fraudulent **Practices**

- 39.1 The Employer will reject a Bid if it determines that the Bidderrecommended for award, or any of its personnel, or its agents, or its sub-contractors, service providers, suppliers and/or theiremployees, has, directly or indirectly, engaged incorrupt, frau dulent, collusive, coercive, or obstructive practices in competing fo r thecontractunder thisbidding.
- 39.2 TheEmployerwillblacklistandhenceforthwithdebaraConstructo r or individual, at any time, in accordance with theprevailingPublicProcurement Rules2004.

BIDDINGDATA(BD)

BIDDINGDATA

IBClause Reference	BiddingData
1.1	NameandaddressoftheEmployer:
	"PORT QASIM AUTHORITY"
	Employer Representative
	Director (Civil Maintenance)
	PQA Building No.3
	Port Qasim Authority
	Bin Qasim,
	Karachi - 75020
	Tele: +92-21-99272158
1.1	NameoftheProject&SummaryoftheWorks:
	"Repair / Realignment of Main Water Line from Main Railway Bridge in WIZ to Water Works Operational Zone, PQA"
1.2	Time forCompletionforthe Works: 9 Months
7.1	Delete Sub-Clause \rightarrow 9.(v) & 9(vi)
8.1	Timelimitforclarification: Three (03) days prior to dead line for submission of bids.
8.3	Venue,time,anddate ofthepre-Bidmeeting:Upon Bidders Request.
9.3	Number of days: Seven (7)
11.1	Bidlanguage: English

IBClause Reference	BiddingData		
12.1	Add to IB. 12.1 after Paragraph (f)		
	12.1 (g) Qualification Information to be updated:		
	Two Envelope Bid return system will be adopted. One envelope containing information regarding qualification of bidders shall be clearly marked "Technical proposal". The second envelope containing bidding documents and the Bid price shall be accomplished by clearly marked "Financial Bid Documents"		
	(h) Furnish Technical Proposal:		
	The bidder to submit a technical proposal in sufficient detail to demonstrate the adequacy of the bid in meeting requirements for timely completion of the work.		
12.2	Maximum number of JV Partners shall be: Three (03)		
	Add to IB. 12.2 after Paragraph (e)		
	Foreign Constructor must form JV with Local Constructor. Foreign Constructors shall not be eligible to participate in bidding individually. Foreign Constructor shall enter in to joint venture with Pakistani Constructor registered with PEC.		
14.1	Bidders to quote entirely in Pakistani Rupees but specify the percentages offoreign currency they require, if a Bidder expecting to incur expenditures in currencies other than specified in Table III of Schedule-A to Bid, shall bear the currency exchange risk involved.		
15.1	PeriodofBidValidity: <u>120 days</u>		
16.1	AmountofBidSecurity: 15.0 Million		
16.2	In the form of Bank Guarantee from any schedule bank in Pakistan with AA Rating PACRA (Karachi Base) within 14 days after the receipt of Letter of Acceptance.		
17.1	AlternativeProposal(s)bytheBidder shall not be considered.		
18.4	NumberofcopiesoftheBidtobe completedandsubmitted: One original and two copies.		
	Searchable pdf versions as well as word, excel etc. versions of the Bidare required: Yes		

IBClause Reference	BiddingData		
19.2(a)	Employer'saddressforthepurpose ofBidsubmission:As per Notice Inviting Tenders (NIT).		
19.2(b)	NameandNumber oftheContract:As per Notice Inviting Tenders (NIT).		
20.1(a)	DeadlineforsubmissionofBids:As per Notice Inviting Tenders (NIT).		
23.1	Venue,time,anddate ofBidopening:As per Notice Inviting Tenders (NIT).		

EVALUATION CRITERIA ANDQUALIFICATIONUPDATINGFORMS

EVALUATION CRITERIA ANDQUALIFICATIONUPDATINGFO RMS

1. General

This Section contains Eligibility and Qualification Criteria that the Employer shall use toevaluateBidsandqualifyBiddersinaccordancewithClausesIB.26ofInstructionstoBidders.The Bidder shall provide all the information requested in the relevant forms contained inBidder'sQualificationUpdatingFormsprovidedherein.

Theinformation provided in the forms shall be substantiated with valid documentary evidences other wise the requirement will not be considered as complied.

Wherever a Bidder is required to state a monetary amount, Bidders shall indicate the PKRequivalentusingtherateofexchangedeterminedasfollows:

-Forfinancialdata-

Exchangerate prevailing on the last day of the respective calendary ear (in which the amounts for that year is to be converted) was originally established.

Exchange rates shall be taken from the public ly available source identified in the Substantial Control of the public ly available source identified in the Substantial Control of th

ClauseIB.14.2. Any error in determining the exchange rates in the Bid may be corrected by the Employer.

2. DomesticPreference

A margin of preference of 7.5% (seven and a half percent) shall be granted to domesticBidders (in case of JV, all partners are Pakistani Constructors), in accordance with and subject to the following provisions:

- (a) The Bidders applying for such preference shall provide, as part of the data forqualification, such information, including details of ownership, as shall be required determine whether, according to the classification established by the Employer, aBidderqualifies for adomestic preference.
- (b) After Bids have been received and reviewed by the Employer, responsive Bids shallbe classified into the following groups:
 - (i) Group A: Bidsoffered by domestic Bidderseligible for the preference.
 - (ii) GroupB: Bidsofferedbyother Bidders.

All evaluated Bids in each group shall, as a first evaluation step, be compared todetermine the lowest Bid, and the lowest evaluated Bids in each group shall befurther compared with each other. If, as a result of this comparison, a Bid fromGroup A is the lowest, it shall be selected for the award. If a Bid from Group B isthe lowest, as a second evaluation step, all Bids from Group B shall then be furthercompared with the lowest evaluated Bid from Group A. For the purpose of thisfurther comparison only, an amount equal to 7.5% (seven and a half percent) of therespectiveBidPricecorrectedforarithmeticalerrors,includingunconditional discount s and excluding Provisional Sums and the cost of dayworks, if any, shall beadded to the evaluated price offered in each Bid from Group B. If the Bid fromGroupAisthelowest,itshallbeselectedforaward.Ifnot,thelowestevaluatedBidfrom GroupB basedon the first evaluationstepshallbeselected.

3. Evaluation(IB 29.2(e))

InadditiontothecriterialistedinIB29.2(a)-(d)the followingcriteria shallapply:

${\bf 3.1} \quad Assessment of a dequacy of Technical Proposal with Requirements$

3.2 Multiple Contracts, if permitted under Sub-Clause 1.1 of Bidding Data, will be evaluated as follows:

AwardCriteriaforMultipleContracts

Bidders have the option to Bid for any one or more lots. Bids will be evaluated lot-wise,taking into account discounts offered, if any, for combined lots. The contract(s) will beawarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer forcombined lots,subject to the selected Bidder(s)meeting the required qualification criteriaforlot orcombination oflotsasthecasemaybe.

QualificationCriteriaforMultipleContracts

This Section describes criteria for qualification for each lot (contract). For multiple lots(contracts)thecriteria for qualification is aggregate minimum requirement for respective lots.

3.3 PriceAdjustments, if permitted under IB. 29.2(d), will be evaluated as follows:

(a) PriceAdjustmentforCompletenessinScope ofWork

In case of omission in the scope of work of a quoted item, no price adjustment for theomitted item(s) shall be applied provided that the Bidder has mentioned in his Bid thatthe same is covered in any other item. Otherwise the adjustments will be applied forcomparison purpose only, taking the average price quoted by other lowest two evaluated substantially responsive Bidders in their original Bids for corresponding item. In case of non-availability of price from other Bidders, the price will be estimated by the Employer from a suitable CSR, adjusted to the date 28 days earlier to the Bid submission date or the Employer shall use its best assessment.

The price adjustment shall not justify any additional payment by the Employer and theprice(s) of omitted item(s) shall be deemed covered by other prices of the Bill of Quantities.

(b) PriceAdjustmentforTechnical/CommercialNonCompliance

The cost of making good any deficiency resulting from technical/commercial non-compliance will be added to the Corrected Total Bid Price for comparison purpose only.

The adjustments will be applied taking the average price quoted by other lowest twoevaluated substantially responsive Bidders in their original Bids for corresponding item. In case of non-availability of price from other Bidders, the price will be estimated by the Employerin accordance with sub-para (a) hereof.

Repair / Realignment of Main Water Line from Main Railway Bridge in NWIZ to Water Works Operational Zone PQA TITLE OF DOCUMENT:

Qualification (Updating of Pre-Qualification)

EligibilityandQualificationinformationdescribed herebelowmustbemetbythelegalentity(ies)comprisingtheBidder,andnottheBidder's/JVpartner'ssister or parentcompanies, subsidiariesor affiliates.

	Eligibility and Qualification Criteria			Complianc	ceRequirements		Documentation
No.	Subject	Requirement	SingleEntity		JointVenture		Submission
		_		All PartnersC ombined	EachMember	LeadMember	Requirements
1.Elig	gibility						
1.1	PECLicencing	Licencing by PakistanEngineering Council(PEC) in accordancewith paragraph (b) ofSub- ClauseIB.3.1.	must meetrequire ment	must meetrequire ment	must be PECLicense e	N/A	Provisional/Stan dard PECLicence. ForeignConstruct or mustsubmitJV Agreementwith Pakistani Constructor.
1.2	Pakistani Constructor'sTax Registration	Requirement ofPakistani ConstructoronActive Taxpayer List(ATL)ofFBRin accordancewith paragraph(c)ofSub- ClauseIB.3.1.	must meetrequire ment	N/A	must meetrequire ment	N/A	Extractsof ATL
1.3	Debarment/Blacklisting	Not having beendebarred/blacklist ed inaccordance withparagraph (d) of Sub-ClauseIB.3.1.	Must meetrequire ment	N/A	Must meetrequire ment	N/A	Undertaking intheLetterofBid

EligibilityandQualificationCriteria		EligibilityandQualificationCriteria ComplianceRequirements			Documentation		
No.	Subject Requirement	SingleEntity	JointVenture			Submission	
	·		·	All PartnersC ombined	EachMember	LeadMember	Requirements
2.Per	ndingLitigation						
2.1	PendingLitigation	Bidder's financialposition andprospective long termprofitability soundaccording to criteriaestablished in 3.1below and assumingthat all pendinglitigation will beresolved against theBidder	Must meetrequire ment	N/A	Must meetrequire ment	N/A	FormCON- 1
3.Fin	ancialSituationandPerforn	nance/Employertospecifyr	equirementsforeac	chlotasapplicablea	sprescribedinthePre	-QualificationDocu	ments]
3.1	FinancialCapabilities	(i) The Bidder shalldemonstrate that it hasaccessto,orhasavail able,liquidassets, unencumberedreal assets, lines ofcredit, and otherfinancial means(independent of anycontractual advancepayment) sufficient tomeet the constructioncash flowrequirementsesti matedasEq.120 Million PKRfor	Must meetrequire ment	Must meetrequire ment	N/A	N/A	Form FIN – 3.1,FIN– 3.2,FIN– 3.3, withattach ments

EligibilityandQualificationCriteria			Complian	ceRequirements		Documentation	
No.	Subject	Requirement	SingleEntity		JointVenture		Submission
	zazjece.	Toqui omono	SingleEntity	All PartnersC ombined	EachMember	LeadMember	Requirements
		the subject contract(s)net of the Biddersothercommit ments.					
		(ii) The Bidders shallalso demonstrate, to the satisfaction of the Employer, that it has a dequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.	Must meetrequire ment	Must meetrequire ment	N/A	N/A	
		(iii) The auditedbalancesheetsor ,ifnot required by thelaws of the Bidder'scountry,otherf inancial statementsacceptableto theEmployer, for the lastyear shall be submittedand must demonstratethe current soundnessof the Bidder'sfinancial position andindicate its prospectivelongtermprofitability.	Must meetrequire ment	N/A	Must meetrequire ment	N/A	

Bidders Qualification Updating Forms

To establish its qualifications to perform the contract in accordance with Section (EvaluationCriteriaandQualificationUpdatingForms)theBiddershallprovidetheinformationreq uestedinthecorrespondingInformation Sheetsincludedhereunder.

Form ELI -1.1

BidderInformationForm

Date:
BidReferenceNo.(ifany)andtitle:
Page of pages
Bidder'sname
In caseof Joint Venture (JV), nameofeachmember:
Bidder'scountryofregistration:
[indicatecountryofConstitution]
Bidder'syearofincorporation:
Bidder'slegaladdress[incountryofregistration]:
Bidder's authorized representative
informationName:
Address:
Telephone/Faxnumbers:
E-mailaddress:
1.Attachedarecopiesoforiginaldocuments,incaseofJV,JVagreement,inaccordancewithSub-ClauseIB3.1.

Form ELI -1.2

$Bidder's JV Information Form \\ (to be completed for each member of Bidder's JV)$

	Date:BidReferenceNo.(ifany)andtitle:page			
BidRef				
	Page		_ of	pages
Bidder'sJVname:				
Bidder SJ v name.				
JVmember'sname:				
JVmember's country of registration:				
3 vinemoer security on egistration.				
JVmember'syearofconstitution:				
JVmember'slegaladdressincountryofconstitution:				
JV member's authorized representative				
informationName:				
Address:				
Telephone/Faxnumbers:				
E-mailaddress:	-			

Form CON -

1PendingLitigatio

n

	ne:		
			VMember'sName
		BidReferenceNo.(ifan	
			Page o
			page
I	PendingLitigation,inacco	ordancewithEligibilityandQualification	Criteria
□ Nopendingli	tigationinaccordancewi	thEligibilityandQualificationCriteria,S	ub-Factor2.1.
□ Pendinglitiga	ationinaccordancewithEl	ligibilityandQualificationCriteria,Sub-	
	ndicatedbelow.		
Year ofdispu te	Amountindispute(currency)	ContractIdentification	Total ContractAm ount(curren cy),Eq.PKR (exchange rate)
		ContractIdentification:	
		NameofEmployer:	
		AddressofEmployer:	
		Matterindispute:	_
		Partywhoinitiatedthe dispute:	
		Statusofdispute:	
		Contract	
		Identification:Name of	
		Employer:Address of	
		Employer:Matterindisp	
		ute:	
		Partywhoinitiatedthedispute:	

Statusofdispute:

FormFIN-3.1: FinancialSituationandPerformance

		Bidder'sName:
		Date:
		JVMember'sName
		BidReference No.(ifany)andtitle:
1. ł	Financialdata	Page of
Т	ypeofFinancialinformationi	Historicinformationforlastyear, pages
•	n (currency)	(amountincurrency,currency,exchangerate*,Eq.PKR)
S	, ,	nformationfromBalanceSheet)
Тс	otalAssets(TA)	
Тс	otalLiabilities(TL)	
Тс	otalEquity/NetWorth(NW)	
Cı	urrentAssets(CA)	
Cu	arrentLiabilities(CL)	
W	orkingCapital(WC)	
		InformationfromIncomeStatement
To	otalRevenue(TR)	
Pr	ofitsBeforeTaxes(PBT)	
		CashFlowInformation
	nshFlowfromOperatingA vities	
*R	efertoIB14.2fortheexchangera	ate
2. I	Financialdocuments	
	eBidderanditspartiesshallprov ificationCriteria,Sub-factor3.1.7	idecopiesoffinancialstatementsforlastyearpursuanttoEligibilityandC
	(a) reflectthefinancialsituation uchasparentcompanyorg	onoftheBidderorincaseofJVmember,andnotanaffiliatedentity(s roupmember).
	(b) beindependentlyauditedo	rcertifiedinaccordancewithlocallegislation.
	(c) becomplete,includingallr	notestothefinancialstatements.
	(d) correspondtoaccountingp	eriodsalreadycompletedandaudited.
	Attachedarecopiesoffinancials above; and complying with ther	statements ¹ forthelastyearrequired equirements
	 the most recent set of financial st	atements is for a period earlier than 12 months from the date of bid,

TITLE OF DOCUMENT:

thereason for this should be justified.

FormFIN-3.2:

FinancialResources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines ofcredit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

No.	Sourceoffinancing	Amount(Eq.PKR)
1		
2		
3		

FormFIN-3.3:

Current Contract Commitments/Works in Progress

BiddersandeachmembertoaJVshouldprovideinformationontheircurrentcommitmentsonall contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completioncertificate hasyetto beissued.

	CurrentContractCommitments							
No.	Name of Contract	Employer'sCont actAddress,Tel,F ax	Value ofOutstandin gWork [CurrentEq. PKR]	EstimatedC ompletionD ate	Average MonthlyInvoicin g OverLast Six Months[Eq.PKR /month)]			
1								
2								
3								
4								
5								

LETTER OF BIDAND SCHEDULESTOBID

LETTEROFBID

Ridi	Reference No
Diui	[NameofContract/Works]
To:	
Gen	tleman,
1.	Having examined the Bidding Documents including Instructions to Bidders, Bidding Data, Conditions of Contract, Specifications, Schedules to Bidincluding Billof Quantities, Drawing sand Addenda Nos. for the execution of the abovenamed Works, we, the undersigned, offer to execute and complete such Works and remedy any defect sthere in inconformity with the said Bidding Documents and Addenda for the sum of Equivalent PKR (Eq. Pak Rupees or such other sum as may be ascert ained in accordance with the said conditions.
•	
2.	WemeettheeligibilityrequirementsinaccordancewithIB.3.
3.	We, including any Subcontractors for any part of the Contract, are not debarred/blacklistedby the Employer, any Government/Semi Government/Public Department in Pakistan orforeigncountry, internationalorganizationsorotherforeigninstitutions.
4.	Our subcontractors or suppliers for any part of the Contract, if any, shall have nationalities from eligible countries, in accordance with IB.4.4.
5.	We understand that all the Schedules attached here to form part of this Bid.
6.	$Assecurity for due performance of the undertaking sandobligations of this Bid, we submit here with a Bid Security in the amount of PKR \(Pak.Rupees.\) drawn in your favour or made payable to you and valid for a period ofdays beginning from the Bidsare opened. \\$
7.	We undertake, if our Bid is accepted, to commence the Works and to complete the whole ofthe Workscomprised in the Contractwithinthetimestated in Contract Data.
8.	WeagreetoabidebythisBidfortheperiodofdays,inclusiveof14daysbeyondBid validity period (as mentioned atSr. No. 6 above) and itshallremain binding upon usandmay beacceptedat anytimebefore theexpiration ofthat period.
9.	Unless and until a formal Agreement is prepared and executed, this Bid, together with yourwrittenacceptancethereof, shall constitute a binding contract between us.
10.	We do hereby declare that the Bid is made without any collusion, comparison of figures orarrangement with anyother Bidder for the Works.
11.	We understandthatyouare notboundto acceptthelowest oranyBidyoumayreceive.
12.	We undertake that all the information and documents submitted with the Bid are genuine, and in case of incorrect information of fake documents we shall be liable for punitive action under the Applicable Law.

Datedthis	dayof		20		
Signature:					
inthecapacityof		duly	authorizedtosig	nBidsforandor	nbehalfof
		(NameofBide	derinBlockCapital (Seal)	(s)	
Address:					
			-		
			-		
Witness:					
Signature:					
Name:					
Address					
Occupation					

SCHEDULEOFADJUSTMENTDATA

ScheduleofCostIndexation

[Theformulaeforpriceadjustmentshall beofthefollowinggeneral type:]

Pn=a+b Ln / Lo +cEn/ Eo +d Mn/Mo +......

where:

"Pn"isthe adjustmentmultipliertobe applied to the estimated Contract value in the relevant currency of the work carried out in period "n", this period being amonth;

"a"isafixedcoefficient, stated in the relevant table of adjustment data, representing the non-adjustable portion in contractual payments;

"b", "c", "d", ... are coefficients representing the estimated proportion of each cost elementrelated to the execution of the Works as stated in the relevant table of adjustment data;

suchtabulatedcostelementsmaybeindicativeofresourcessuchaslabour, equipment and materials;

"Ln", "En", "Mn", are the current cost indices or reference prices for period "n", expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates); and

"Lo", "Eo", "Mo", arethebasecostindicesorreferenceprices, expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the Base Date.

The weightings (coefficients) for each of the factors of cost stated in the following table(s) of adjustment datashallonly be adjusted if they have been rendered unreasonable, unbalanced or in applicable, as a result of Variation(s).

If the currency in which the Contract price is expressed is different from the currency of the country of origin of the indices, a correction factor will be applied to avoid in correct adjustments of the Contract price. The correction factor shall be: Z_0/Z_1 , where,

Z₀=the number of units of currency of the origin of the indices which equal to one unit ofthecurrency oftheContract Priceon theBasedate, and

 Z_1 =the number of units of currency of the origin of the indices which equal to one unit ofthecurrency oftheContract Priceon theDateofAdjustment.

SCHEDULEOFADJUSTMENTDATA

[In the Table below, the Bidder shall (a) indicate amount of local currency payment, and the Employer shall (b) enter the Index description and source of indices for the different elements of cost, and (c) derive weightings for local currency payment including nonadjustable fixed portion. PEC Standard Procedure and Formula for Price Adjustment (Second Edition), May, 2022 asamended time to time shall be applied for preparation of the following Table.]

Index code	Indexde scription	Source ofindex / Prices		Bidder's relatedcurrency amount	Weighting
(i) (ii) (iii) (iv)	Non-adjustable Pipe Diesel Labor	Calculated Market Government of Pakistan Federal Bureau of Statistics			A: <u>0.25</u> B: <u>0.53</u> C: <u>0.17</u> D: <u>0.05</u>
Total					1.00

- The base cost indices or pieces shall be those applying 28 days prior to the latest day for submission of bids. Current indices or prices shall be those applicable 28 days prior to the last day of the month when work was executed at site.
- Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.

N

A-3 Schedule-AtoBid

SCHEDULEOFADJUSTMENTDATA

TableII.ForeignCurrenc (FN)F rBillNos.______

[IntheTablebelow,theBiddershall(a)indicate mean offoreigncurrencypayment,(b)indicatethesour ceandbasevaluesofindicesforthedifferentforeigncurrencyelementsofcost,
(c) derive its proposed weightings of foreign currency payment, except the non-adjustable portionwhichwill befilled inbytheEmployer.

IftheBidderwishestoincurinmorethanoneforeigncurrency(uptotwocurrenciespermitted)thenthistable shouldberepeated foreachforeigncurrency.]

Index code	Indexde scription	Source ofindex	Base ah ai d ate	Bidder'srel atedsourcec urrency intype/amou nt	Equivalent inFC1	Bidder's proposed weighting
(i) (ii) (iii)	Non- adjustable		lic			A: B: C:
(iv) (v)			ab			D:
			1e	Total		1.00

A-4 Schedule-AtoBid



TableIII.ForeignCurrencyRequirements

[WithreferencetoSubClauseIB.14.1,theBiddershallprovideinformationbelowontheproportion of various currencies in which herequires parment to bemade. TheBidders shallalsoindicate Factors(inputs)related to the requirement of respective currencies.]

Sr.No	Currency (name)	Percentage payable incurrenc y	Factors (inputs) to which theRequirementsRefer
1.	LC (Pak.Rs.)	pl ca	GeneralExpensesManpower,LocalStaff,ExpatriateStaff,SpareParts,Fuel&Lubricants,Hydraul icBinder,Timber&Plywood,Additives&Protectives,Joints&Waterstops, Explosives-Fuses-Detonators, Re-Steel & Wire mesh, Metal Pipes & Fittings,StructuralSteel,MiscellaneousMetals, Concrete Pipes, PVC Pipes, Build Materials,Sub-Contractor,Drilling&GroutingSub-ContractorThirdPartySupplies,ImportCharges, GeneralExpenses,Plants.
2.	FC1 (US\$Dollar)	bl	* ExpatriateStaff,SpareParts,HydraulicBinder,T imber&Plywood,Additives&Protectives, Drilling Materials,Miscellaneous,S up-Contractor,ImportCharges, GeneralExpenses,Plants.
3.	FC2 (EUR€ EURO)		* Expatriate Staff,SpareParts,Additives&Protectives, Welding Materials,Miscellaneous,E lectricalSub- Contractor,ImportCharges,GeneralExpenses, Equipment, Plants.
	TOTAL	100.00	

[*TheaboveFactors(Inputs)related to the requirement of respective currencies, are forguidance only, and shall be indicated specific to the Contract.]

A-5 Schedule-AtoBid

SCHEDULEOFADJUSTMENTDATA

TableIV.Summaryof aymentCurrencies

[IntheTablebelow, theBiddershalllisttheexchangeratesusedinthecurrencyconversionwithreferenceto Sub ClauseIB.14.2.]

Name of paymentcurr ency	aAmo unt ofcurrency	bRat e fex har ge (local currencyper unit offoreign)	c Local currencyequiv alent c =a xb	dPercen tage ofTotalBidPric e (TBP) - 100x cTBP
Localcurrency (Pak.Rs)		1.00		
FC1		ca		
FC2	1	1		
Total BidPrice		ole		100.00
Provisional sumsexpressed in localcurrency	[To be enteredby theEmployer]		[To be enteredby theEmployer]	
TOTALBIDPRICE (including provisionalsum)				

A-6 Schedule-AtoBid

PRICE ADJUSTMENT UNDER CLAUSE 13.7 OF CONDITIONS OF CONTRACT

The source of indices and the weightages or coefficients for use in the adjustment formula under Clause 70 shall be as follows:

Cost Element	Description	Weightages	Applicable index
1	2	3	4
(i)	Fixed Portion	0.30	
(ii)	Local Labor		Government of Pakistan (GP) Federal Bureau of Statistics (FBS) Monthly Statistical Bulletin.
(iii)	Cement – in bags		
(iv)	Reinforcing Steel		
(v)	High Speed Diesel (HSD)		
(vi)	Bricks		
(vii)	Bitumen		
	Total	1.000	

Notes:

- 1- Indices for "(ii)" to "(vii)" are taken from the Government of PakistanFederal Bureau of Statistics, Monthly Statistical Bulletin. The base cost indices or prices shall be those applying 28 days prior to the latest day for submission of bids. Current indices or prices shall be those applying 28 days prior to the last day of the billing period.
- 2- Any fluctuation in the indices or prices of materials other than those given above shall not be subject to adjustment of the Contract Price.
- 3- Fixed portion shown here is for typical road project, Employer to determine the weightage of Fixed Portion considering only those cost elements having cost impact of seven (7) percent or more on his specific project.

BILLOFQUANTITIES

A. Preamble:

- 1. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
- 2. The quantities given in the Bill of Quantities are estimated and provisional, and are givento provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer andvalued at the rates and prices as given in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineermay fixasper the Contract.
- 3. The rates and prices as given in the priced Bill of Quantities shall, except insofar as it isotherwise provided under the Contract include all costs of Contractor's plant, labour, supervision, materials, execution, insurance, profit, taxes and duties, together with allgeneralrisks, liabilities and obligations set out or implied in the Contract. Furthermore, all duties, taxes and other levies payable by the Contractor under the Contract, or for anyother cause, as on the date 28 days prior to deadline for submission of Bids, shallbeincluded in the rates and prices and the total BidPrice submitted by the Bidder.
- 4. A rate or price shall be entered against each item in the priced Bill of Quantities, whetherquantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and price sentered in the Bill of Quantities.
- 5. The whole cost of complying with the provisions of the Contract shall be included in theitems provided in the priced Bill of Quantities, and where no items are provided, the costshall be deemed to be distributed among the rates and prices entered for the related itemsof the Works, or the same shall be determined by the Engineer in accordance with Clause 13, General Conditions.
- 6. General directions and description of work and materials are not necessarily repeated norsummarised in the Bill of Quantities. References to the relevant sections of the BiddingDocumentsshallbemadebeforeenteringpricesagainsteachitemintheBillofQuantities.
- 7. Provisional sums included and so designated in the Bill of Quantities shall be expended inwhole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 13.4of GeneralConditionsof Contract.
- 8. The following abbreviations for units have been used in Bill of Quantities:

Units	Abb	reviations
Cubic Meter	=	cum
Square Meter	=	sqm
Kilogram	=	kg
ProvisionalSum	=	PS
Lump-Sum	=	LS

BILL OF QUANTITIES

B-2 Schedule-BtoBid

A. WorkItems:

- 1. The Bill of Quantities contains the following Bills
 - Bill of Quantities Scope of works with technical specification has been enclosed in Schedule-B to Bid as B-3
- 2. Bidders shall quote their prices entirely in Pak Rupees only.
- 3. The unit rates quoted in the Bill of quantities shall be inclusive of all applicable taxes / duties and Sindh Sales Tax on Construction Services

REPAIR / REALIGNMENT OF MAIN WATER LINE FROM MAIN RAILWAY BRIDGE IN NWIZ TO WATER WORKS OPERATIONAL ZONE

BILL OF QUANTITIES

			Quantity	R	ate	Amount (PKR) in figures
S. No	Description	Unit		Rupees in figure	Rupees in words	
	Jungle cutting					
1	Clearing, grubbing and jungle cutting by removing all shrubs, bushes, trees, having 6 to 10 inches girth, taking out their entire roots including stacking the serviceable materials at site and disposal of useless materials to a designated place etc complete in all respects as directed by the Engineer In charge	Sq.m	40,000			
	Breaking and Dismantling					
2	Breaking / Cutting of existing road pavement structure including disposal of debris to a designated place complete in all respects as directed by the Engineer In charge.	Cu.m	375			
3	Dismantling of Structures and Obstructions including disposal of dismantled stuff / debris to a designated place etc. complete in all respects as directed by the Engineer In charge.	Cu.m	350			
	Excavation and Disposal					
4	Excavation of trenches for laying of HDPE Pipe up to required levels, lines & grades in all kinds of murum, hard, average, sandy, gravelly soil including watering, dressing & compaction of the excavated exposed surface, etc complete in all respects and as per direction of the Engineer In charge. Note: The rates quoted shall be inclusive of working space and slope in cut if required for soil stability in pipe trench and quantity of working space and slope in cut shall not be considered for payment.	Cu.m	43,500			

S.				R	ate	Amount
No	Description	Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
5	Disposal of surplus excavated stuff distinct from the materials and the rubbish accumulated during construction to a designated place, dumping / placing, levelling & dressing the material etc. complete in all respects as directed by the Engineer In charge	Cu.m	22,000			
	<u>Dewatering</u>					
6	Bailing or pumping out sub-soil water using electric submersible dewatering pump (4 Inch) as per requirement during excavation, concreting, cast in situ concrete underground including the cost of generator with fuel, drainage pipe etc complete in all respects as directed by the Engineer In charge.	Hours	200			
	Fill in Pipe Trench					
7	Backfilling the excavated earth obtained from excavation in trenches and around structures in layers not exceeding 9 inch thickness including ramming, dressing, watering and compacting the backfill material etc. Complete in all respects and as per direction of the Engineer In charge	Cu.m	26,500			
8	Supplying, laying, and levelling single sized gravel (2 inch) for pipe bedding in trenches to required levels, lines and grades from approved quarry including the cost of placing, compacting, cartage to site etc. complete in all respects as directed by the Engineer In charge.	Cu.m	6,300			

				R	ate	Amount
S. No	Description	Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
9	Supplying, laying, spreading and compacting non plastic sandy soil of approved quality around pipe in pipe trenches passing a 9.5 mm sieve and not more than 15% passes No.200 sieve including watering, consolidation up to 90% of MDD with mechanical hammers or hand tampers etc complete in all respects as directed by the Engineer In charge.	Cu.m	8,500			
	HDPE Pipe & Fittings					
10 i	Providing and Laying HDPE 100 Pipe (Pak Arab, Hi-tech, IIL, Dadex or equivalent) manufactured conforming to PN-10 & ISO 4427, DIN 8074/8075 and PS 3580-1994 including the cost of cutting, placing in position, butt fusion jointing (pipe to pipe, pipe to fitting, any other joint in the pipe network) in trenches, testing to required pressures, cartage of pipe lines to the site of the work, commissioning and testing of the pipe line network etc. complete in all respects as directed by the Engineer Incharge. 18" inches outer dia HDPE pipe PN-10	Ru.m	10,000			
ii	9" inches outer dia HDPE pipe PN-10	Ru.m	1,000			
11	Providing and fixing following HDPE pipe fittings (PN-16):					
а	18 inches dia					
i	up to 45 Degree bend	Nos	20			
ii	45 to 90 Degree bend	Nos	15			
iii	Equal Tee	Nos	10			
iv	Stub End	Nos	42			
٧	End Cap	Nos	2			

S.				R	ate	Amount
No	Description	Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
vi	Puddle flange	Nos	40			
b	9 inches dia					
i	up to 45 Degree bend	Nos	5			
ii	45 to 90 Degree bend	Nos	5			
iii	Equal Tee	Nos	5			
iv	Stub End	Nos	17			
٧	End Cap	Nos	2			
vi	Puddle flange	Nos	20			
С	Reducer Tee					
i	18" x 18" x 9"	Nos	2			
12	Providing and fixing rubber wall collar including the cost of stainless steel straps complete in all respects as directed by the Engineer In charge. (Optional)					
i	For 18" dia pipe	Nos	40			
ii	For 9" dia pipe	Nos	20			
	Structural Works					
13	Providing and laying 1:4:8 Lean Concrete (1 cement 4 sand and 8 coarse aggregate) lean concrete using graded gavel (bajri) 1 inch (25 mm) and down gauge including levelling, compacting and curing etc. complete in all respects as directed by the Engineer In charge	Cu.m	65			

S.				R	ate	Amount
No	Description	Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
14	Providing and laying "Concrete Class A1" having 3000 psi 28 days cylindrical compressive strength including the cost of all formwork, placing & fixing in position in required shapes, level and sizes, pouring, compacting via mechanical vibrator, curing etc complete in all respects as directed by the Engineer In charge.	Cu.m	1,300			
15	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi) reinforcement bars with & including the cost of straightening, cutting, bending, binding wire, wastage, placing in position MS chairs, tying with binding wire, cost of chairs and wires etc. complete in all respects as directed by the Engineer In charge	Ton	19.50			
16	3/4" (19 mm) thick cement plaster 1:4 on walls, slabs etc in chambers, making edges, corners, and curing etc., complete in all respects as directed by the Engineer In charge	Sq.m	850			
17	1" (25 mm) thick cement plaster 1:4 on walls, slabs etc in chambers, making edges, corners, and curing etc., complete in all respects as directed by the Engineer In charge	Sq.m	100			
18	Providing and applying 02 coats of grade 10/20 bitumen over RCC structure surfaces in contact with soil at the rate of 4 Kg/m^2 for each coat, embedded parts shall be thoroughly cleaned of any dirt and contaminants prior to application, coating shall be done evenly using a brush or roller ensuring a minimum thickness of 1.5mm etc complete in all respects and as directed by the Engineer Incharge	Sq.m	500			

				R	ate	Amount
S. No	Description	Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
	Pipe Jacking & Thrust Boring					
19	Hydraulic pipe jacking a 24" dia Mild steel sleeve grade 36 having wall thickness of 1/2" below railway line crossing using hydraulic jacking equipment capable of generating torque ranging from 35 KN.m to 40 KN.m having revolution at least 12 r/min equipped with monitoring systems for jacking force, speed, alignment, including the cost of MS sleeve, MS. plates, welding of sleeve joints, excavation and backfilling services for launch and reception shafts including removal and disposal of excavated material, construction of RCC support structures for launch and reception shafts including all necessary formworks, reinforcing steel, concrete with minimum compressive strength 30 MPa, provisioning of non-shrinkage grout ASTM C1107/C1107M for grouting annular space between MS sleeve, pipe and circumferential surface of the bore, jacking shall be carried out through trained and certified jacking operators and skilled labors etc complete in all respects and as per direction of the Engineer In charge (Jacking length = Approx 20 meter)	Job	1.00			
20	Thrust boring in all kinds of soil except rock complete in all respects as directed by the Engineer In charge.					
i	20" dia with grade 36, 1/2" thick M.S sleeve used as a conduit for HDPE pipe crossing below road pavement structure	Ru.m	25			

S.	Description		Quantity	R	ate	Amount
No		Unit		Rupees in figure	Rupees in words	(PKR) in figures
	Mechanical Valves					
21	Supplying and Fixing DN100 spheroidal graphite / nodular iron body kinetic automatic air releasing valves (EN-GJS-400-15 or equivalent) double orifice designed as per BS EN 1074-4:2000 having internal components of stainless steel (EN 10088-1 or equivalent) and with integrated isolating valve designed to allow the most efficient method of releasing or admitting air during the filling or emptying of pipe lines and release air during normal operation, external coating for corrosion protection compliant with BS EN 14901, test certificates for materials and pressure testing conforming to BS EN 12266-1:2012, including the cost of all fittings, rubber gaskets, stub end flanges, G.I flanged reducing tee with protective coating required for a connection to HDPE pipe etc complete in all respects and as per direction of the Engineer In charge.	Each	15			

S.	Description	11:4	Quantity	R	ate	Amount
No		Unit		Rupees in figure	Rupees in words	(PKR) in figures
22	Providing and Fixing Gate Valves PN-10 of required dia imported approved quality conforming to BS-5150:2007, having body, bonnet, wedge/gate made up of nodular / spheroidal graphite iron (EN-GJS-400-15 or equivalent) with EPDM or nitrile rubber coating, stainless steel stem (EN10088-1 or equivalent), flanged ends conforming to BS EN 1092-2 PN-10 or equivalent, having rising stem, bolted bonnet, resilient seated, fully bored, external coating for corrosion protection compliant with BS EN 14901 including rubber packing / gasket, galvanized nuts and bolts, flanges, complete fittings required for a connection to HDPE pipe etc. complete in all respects as per drawings specification, (Test certificate from manufacturer) and as per direction of Engineer.					
i	For 18" HDPE pipeline	Each	5			
ii	For 9" HDPE pipeline	Each	5			
	Flow Meter					
23	Providing and fixing Electromagnetic flow meter MAG 5100W - DN450 with AS 4087, PN16 flanges (Siemens or equivalent) made including all necessary fittings but excluding the cost of chamber complete in all respects and as per direction of the Engineer In charge.	Nos	1			

S.				R	ate	Amount
No	Description	Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
24	Providing and fixing Electromagnetic flow meter MAG 5100W - DN200 with AS 4087, PN16 flanges (Siemens or equivalent) made including all necessary fittings but excluding the cost of chamber complete in all respects and as per direction of the Engineer In charge.	Nos	1			
	<u>Roadworks</u>					
25	Subgrade preparation over earth fill including dressing, removal of any organic matter, levelling, watering and compacting up to 95% MDD, making good any undulations etc. complete in all respects as directed by the Engineer In Charge. Note: Material & Construction specs shall comply with NHA general specifications 1998	Sq.m	1,200			
26	Providing and laying Granular Subbase having CBR value greater than 50% including the cost of transportation to site, spreading, levelling, watering, compacting up to 98% MDD, making good the undulations etc. complete in all respects as directed by the Engineer In Charge. Note: Material & Construction specs shall comply with NHA general specifications 1998	Cu.m	300			

	Description			R	ate	Amount
S. No		Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
27	Providing and laying Aggregate base course having CBR value greater than 80% including the cost of transportation to site, spreading, levelling, watering, compacting up to 100% MDD, making good the undulations etc. complete in all respects as directed by the Engineer Inchrage. Note: Material & Construction specs shall comply with NHA general specifications 1998	Cu.m	360.00			
28	Providing and spraying Emulsified Asphalt for bituminous Prime Coat over aggregate base course in spray rates ranging from 0.65 to 1.75 liter per m^2 through mechanical sprayers evenly throughout the entire surface and protecting the surface from traffic for at least 24 hours etc Complete in all respect as directed by the Engineer in Charge. Note: Material & Construction specs shall comply with NHA general specifications 1998	Sq.m	1,200			
29	Providing and laying Asphalt Concrete Base Course (Class B) including transportation to site, laying and levelling, compacting through Tandem rollers and Pneumatic tire rollers up to 97% core compaction, making necessary measures for protection of the newly asphalted surface from traffic etc. complete in all respects as directed by the Engineer In charge. Note: Material & Construction specs shall comply with NHA general specifications 1998	Cu.m	180			

S.				R	ate	Amount
No	Description	Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
30	Providing and laying Asphalt Concrete Wearing Course (Class B) including transportation to site, laying and levelling, compacting through Tandem rollers and Pneumatic tire rollers up to 97% core compaction, making necessary measures for protection of the newly asphalted surface from traffic etc Complete in all respects as directed by the Engineer In charge. Note: Material & Construction specs shall comply with NHA general specifications 1998	Cu.m	100			
31	Providing and fixing Precast concrete curb Class A-1 450mm x 300mm x 150mm including bedding & joint mortar 1:4, 1:2:4 hunching, curing etc. complete in all respects as per direction of the Engineer In charge	Ru.m	1,000			
	Stone Pitching & Gabion Mattress					
32	Providing and laying grouted stone pitching comprising of 250 mm thick good, hard, durable broken boulders / pieces of rock, weight of stone ranging from 15Kg to 25Kg, with joints filled with stone fragments thereafter grouted with cementitious mortar (1:3), curing etc. complete in all respects as directed by the Engineer In charge.	Sq.m	1,200			

S.				R	ate	Amount
No	Description	Unit	Quantity	Rupees in figure	Rupees in words	(PKR) in figures
33	Making earthen embankments with earth taken from approved borrow pits to lines, levels and grades as mentioned in the drawings including cost of excavation, cartage to project location, placing earth in layers not exceeding 9" (229 m) depth as per approved section, watering and compacting to achieve 95% of Maximum dry density including dressing top and sides of the bank in all kinds of soil (murum, wet silt etc.) etc complete in all respects as directed by the Engineer In charge.	Cu.m	3,500			
34	Providing and laying Granular gravel filter material layer having D15 of the filter at least 4 times as large as D15 for the underlying embankment material, and not more than 4 times the D85 for the embankment material consisting of clean, hard, durable particles free from clay, organic matter or other deterious substances including the cost of surface preparation prior to laying, spreading, levelling to required grades, compacting to permit free flow of water and exclude soil particles, as per specifications drawings and as approved by the Engineer. Note: Material and construction specs must comply with NHA general specifications 1998	Cu.m	550			

PORT QASIM AUTHORITY (PQA)

S.	_			R	ate	Amount (PKR) in figures
No	Description	Unit	Quantity	Rupees in figure	Rupees in words	
35	Providing and laying gabion mattress including the cost of 250mm thick clean, hard, angular rock fill, hot dipped galvanized mesh, tie & selvedge wire (9 SWG) conforming to ASTM A975-11 having 60,000 psi yield strength triple twisted having openings 8cm by 10cm, formation of cells with each cell having four cross connecting wires, beds for gabion shall be suitably levelled and graded as mentioned in the drawings, stretched in a manner to permit proper shape, alignment and placement of gabion rock fill, joints of gabion cells shall be staggered etc complete in all respects as directed by the Engineer In charge.	Sq.m	2,000			
	Supply of Equipment					
36	Supplying and handing over following equipment to Client:					
i	Semi-automated Butt fusion machine for HDPE pipe welding / jointing (Make China or equivalent) capable of jointing following dia pipes complete set including PTFE coated heating plate, electric planning tool, hydraulic unit, having at least 4 clamp framed structure, separate two-channel timer, control panel with pressure gauges and temperature controller etc complete in all respects and as directed by the Engineer In charge. Welding Range (8 inch to 18 inch)	Each	1.00			
ii	Generator 10 KVA Trolley mounted (make JASCO or equivalent)	Each	1.00			
	Total Amour	nt inclu	ding all ap	plicable ta	exes (PKR)	

I	/	We	hereby	quote	Rupees(Rs.)			(in	words
)	inclusive of all FBR	taxes/duties	and Sindh	Sales Taxes	(SST)
@		_% on cons	struction servi	ices.					
Note	:								
,	[TTL]	E OF DOCUME	NT:						

• Financial Evaluation: as per SRB rule.	Financial bid wil	l be evaluated aft	er the adjustments	of applicable inp	out sales Tax

B-3 Schedule-BtoBid

BILLOFQUANTITIES

BillNo.1GeneralItems

		SpecificPr			-	A 4	
Item	Description	ovisionsR ef.	Unit	Quantity	PKR infigures	PKR inwords	- Amount PKR
1	2	3	4	5		6	7
101	Insurances of theWorks	SP	LS				
102	Insurance of theGoods	SP	LS				
103	Professional IndemnityIn surance	SP	LS				
104	Third partyinsura nce	SP	LS				
105	WorkmenCo mpensationIns urance	SP	LS				
106	Performance Security	SP	LS				
107	PriceAdjustment	SP	PS				
108	Provide and equipEngineer'so ffices	SP	LS				
109	MaintainEngineer 'soffices	SP	LS				
110	Providediversionr oad	SP	LS				
111	Provide forcleaninguptheSi teoncompletion	SP	LS				
112	*Provide forother facilitiesfor Engineerand Employer'sPers onnel		LS				
113	Contingencies		PS				
114	DAABFee		PS				
То	otalforBillNo.1	•		(Car	riedforwardt	toSummaryPag	ge)

[Note: The above descriptions of items are given by way of example only.]

BILLOF QUANTITIES

BillNo.2Earthworks

		Technical				Rate		
Item	Description	on Provisions Uni Ref.	Unit	Unit Quantity	PKR infigures	PKR inwords	- Amount PKR	
1	2	3	4	5		6	7	
201		TS						
202								
203								
204								
205								
206								
Тс	otalforBill No.2_	<u> </u>		(C	Carried forwa	ardtoSummaryPa	ge)	

BILLOF QUANTITIES

Bill No. 3 Culverts and Bridges

		Technical				Rate		
Item	Description	Provisions Ref.	Unit	Quantity	PKR infigures	PKR inwords	- Amount PKR	
1	2	3	4	5	8	6	7	
301		TS						
302								
303								
304								
305								
306								
То	otalforBill No.3_			(C	Carried forwa	ardtoSummaryPa	ige)	

BILLOFQUANTITIES

BillNo.4SubsurfaceDrains

		Technical			Amount		
Item	Description	Provisions Unit Ref.	Quantity	PKR infigures	PKR inwords	PKR	
1	2	3	4	5	8	6	7
401							
402							
403							
404							
405							
406							
То	otalforBill No.4	.		(C	Carried forwa	ardtoSummaryPag	ge)

BILLOF QUANTITIES

Bill No. 5 Miscellane ous Items

Item	Description	Technical Provisions Ref.	Unit	Quantity	PKR	Rate PKR	Amount PKR
1	2	3	4	5	infigures	inwords 6	7
501							
502							
503							
504							
505							
506							
Тс	otalforBill No.5_			(C	Carried forwa	ardtoSummaryPag	ge)

BILLOFQUANTITIES

DayworkSchedule

B. Daywork

General

1. Reference is made to Sub-Clause 13.5 of the General Conditions of Contract. Work shallnot be executed on a Daywork basis except by written order of the Engineer. Biddersshall enter basic rates for Daywork items in the Schedules, which rates shall apply to anyquantity of Daywork ordered by the Engineer. Nominal quantities have been indicated against each item of Daywork, and the extended total for Daywork shall be carried forward to the Bid Price.

Daywork Labour

- 2. In calculating payments due to the Contractor for the execution of Daywork, the actualtime of classes of labour directly doing the Daywork ordered by the Engineer and forwhich they are competent to perform will be measured excluding meal breaks and restperiods. The time of gangers (charge hands) actually doing work with the gang will alsobe measured butnot thetimeofforeman orother supervisory personnel.
- 3. The Contractor shall be entitled to payment in respect of the total time that labour isemployed on Daywork, calculated at the basic rates entered by him in the Schedule ofDaywork Rates for labour together with an additional percentage, payment on basic rates representing the Contractor's profit, overheads, etc., as described below:
 - a. The basic rates for labour shall cover all direct costs to the Contractor, including(butnot limited to) the amount of wages paid to such labour, transportation time, overtime, subsistence allowances and any sums paid to or on behalf of such labour for socialbenefits in accordance with Pakistan law. The basic rates will be payable in localcurrencyonly; and
 - b. The additional percentage payment to be quoted by the Bidder and applied to costsincurred under (a) above shall be deemed to cover the Contractor's profit, overheads, superintendence, liabilities and insurances and allowances to labour time keeping and clerical and office work; the use of consumable stores, water, lighting and power; theuse and repair of staging, scaffolding, workshops and stores, portable power tools, manual plant and tools; supervision by the Contractor's staff, foremen and othersupervisory personnel; and charges incidental tothe foregoing.

BILLOFQUANTITIES

DayworkSchedule

I. Labour

Item No.	Description	Unit	Nominal Quantity	Rate (PKR) inFigure	Rate (PKR)in Words	Extended Amount(PKR.)
1	2	3	4	5	6	7
D101	Ganger	Hr	500			
D102	Labourer	Hr	5,000			
D103	Bricklayer	Hr	500			
D104	Mason	Hr	500			
D105	Carpenter	Hr	500			
D106	SteelworkErector	Hr	500			
D107	etc	Hr				
D113	Driverforvehicleupto10 tons	Hr	1,000			
D114	Operatorforexcavator, dragline,shovelorcrane	Hr	500			
D115	Operatorfortractor,(tracked)with dozer blade orripper	Hr	500			
D122						
		Suk	Total			1
Allow h3(b)o	_percentofsubtotalfor0 fDayworkSchedule	Contracto	or'soverhea	d,profit,etc,i	naccordancewit	hParagrap
Totalfo	orDaywork:Labour:		(Car	riedforwardt	oDayworkSumr	mary)

[Note:

- 1. The above description of items and their quantities are indicative only; the Employershall fill the type of Labour and quantities thereof, estimated to be utilized underDaywork.
- 2. The Bidders are required to fill the rest of the columns, Sub Total and percentage of overhead, profit, etc.]

BILLOF QUANTITIES

DayworkSchedule

DayworkMaterial

- 4. The Contractor shall be entitled to payment in respect of materials used for Daywork(except for materials for which the cost is included in the percentage addition to labourcosts as detailed heretofore), at the basic rates entered by him in the Schedule of DayworkRates for materials together with an additional percentage payment on the basic rates tocoveroverhead chargesand profit, as follows:
 - a) The basic rates for materials shall be calculated on the basis of the invoiced price, freight, insurance, handling expenses, damage, losses, etc., and shall provide for delivery to store for stockpiling at the site. The basic rates shall be stated in local currency but payment will be made in the currency or currencies expended upon presentation of supporting documentation;
 - b) The additional percentage payment shall be quoted by the Bidder and applied to theequivalentlocalcurrencypaymentsmade under Sub-Para(a)above; and
 - c) Thecost of hauling materials used on work ordered to be carried out as Daywork from the store or stockpile on the site to the place where it is to be used will be paid inaccordance with the terms for Labourand Constructional Plantinthis Schedule.

BILLOFQUANTITIES

DayworkSchedule

II. Material

Item No.	Description	Unit	Nominal Quantity	Rate (PKR) inFigure	Rate (PKR)in Words	Extended Amount(PKR)
1	2	3	4	5	6	7
D201	Cement,ordinaryPortlandorequiv alentinbags	M.Ton	200			
D202	Mild Steel reinforcing bar upto16mm diameter to BS 4449 orequivalent	M.Ton	100			
D203	Fineaggregateforconcrete	Cu.M	1,000			
D204	etc					
D222	Gelignite(NobleSpecialGelatine 60%orequivalent)includingcaps, fuse,wireandrequisiteaccessories	M.Ton	10			
	SubTotal					
AllowpercentofsubtotalforContractor'soverhead,profit,etc,inaccordancewithPa ragraph4(b)ofDayworkSchedule						
Totalfo	TotalforDaywork:Material:(CarriedforwardtoDayworkSummary)					

[Note:

- 1. The above description of items and their quantities are indicative only; the Employershall fill the type of Material and quantities thereof, estimated to be utilized under Daywork.
- 2. The Bidders are required to fill the rest of the columns, Sub Total and percentage of overhead, profit, etc.]

BILLOF QUANTITIES

DayworkSchedule

${\bf Daywork Construction al Plant}$

- 5. The Contractor shall be entitled to payments in respect of constructional plant already on Site and employed on Daywork at the basic rental rates entered by him in the Schedule of Daywork Rates for constructional plant. The said rates shall be deemed to include complete allowance for depreciation, interest, indemnity and insurance, repairs, maintenance, supplies, fuel, lubricants, and other consumables, and all overhead, profit and administrative costs related to the use of such equipment. The cost of drivers, operators and assistants will be paid for separately as described under the section on Daywork Labour.
- 6. In calculating the payment due to the Contractor for constructional plant employed on Daywork, only the actual number of working hours will be eligible for payment, exceptthatwhereapplicableandagreedwiththe Engineer, the travelling time from the part of the Site where the constructional plant was located when ordered by the Engineer to be employed on Daywork and the time for return journey thereto shall be included for payment.
- 7. ThebasicrentalratesforconstructionalplantemployedonDayworkshallbestatedinPak Rupees(PKR).

BILLOFQUANTITIES

DayworkSchedule

III. ConstructionalPlant

Item No.	Description	Unit	Nominal Quantity	Rate (PKR) inFigure	Rate (PKR)in Words	Extended Amount (PKR)
1	2	3	4	5	6	7
D301	Excavator, face shovel or dragline:					
	1.Up-toandincluding 1 Cu.M.	Hr	500			
	2.Over 1 Cu.M to2 Cu.M.	Hr	400			
	3.Over 2Cu. M	Hr	100			
D302	Tractor(tracked)includingbull or angledozer:					
	1.Up-toandincluding 150HP	Hr	500			
	2.Over 150 to 200 HP	Hr	400			
	3.Over 200 to 250 HP	Hr	200			
D303	Tractorwithripper:					
	1.Up-toandincluding 200HP	Hr	400			
	2.Over 200 to 250 HP	Hr	200			
D304	etc					
	SubTotal					
Totalfo	TotalforDaywork:ConstructionalPlant: (CarriedforwardtoDayworkSu					
mmary	mmary)					

[Note:

- 1. The above description of items and their quantities are indicative only; the EmployershallfillthetypeofPlantandquantitiesthereof,estimatedtobeutilizedunderdaywor k.
- 2. The Biddersare required to fill the rest of the columns and SubTotal.]

BILLOF QUANTITIES

DayworkSchedule

Summary

Sr.No	Daywork	Amount(PKR)		
I.	Labour			
п.	Materials			
III.	ConstructionalPlant			
	Total for Daywork(CarriedforwardtoSummaryPageofBillofQuantities)			

BILLOF QUANTITIES

Summary

BillNo	Bill	Amount(PKR)			
1.	GeneralItems				
2.	Earthworks				
3.	CulvertsandBridges				
4.	SubsurfaceDrains				
5.	MiscellaneousItems				
	Sub-Totalof Bills				
	DayworkSchedule				
	BidPrice(CarriedforwardtoLetterOfBid)				
	Federal/ Provincial Sales Tax on Services (%)[To beentered bytheEmployer]				
	GrandTotal				

Note: All Provisional Sums are to be expended in whole or, in part at the direction and discretion of the Engineerinac cordance with Sub-Clauses 13.4 of the General Conditions except with respect to DAAB fees and the expenses in accordance with GCC lause 21.

CONSTRUCTIONSCHEDULE

Pursuant to Sub-Clause 8.3 of the General Conditions, the whole of the Works, and each Section(if any), shall be completed within the Time for Completion for the Works or Section (as the casemaybe) statedashereunder andmentioned in Contract Data:

Description	Timefor Completion(days)
a) WholeWorks	
b) SectionA	
c) SectionB	
d)	
e)	

[The Bidder shall provide, the Construction Schedule in the bar chart (CPM, PERT or any othertobespecifiedherein)showingthesequenceofworkitemsandtheperiodoftimeduringwhichhe proposes to complete each work item in such a manner that his proposed programme forcompletion of the whole of the Works and Sections of the Works may meet Employer's completiontargetsindaysnotedaboveandcountedfromtheCommencementDate(Attachsheetsasrequi redforthespecifiedformof ConstructionSchedule)]

METHODOFPERFORMINGTHEWORK

[TheBidderisrequiredtosubmitanarrativeoutliningthemethodofperformingtheWork.Thenarrativeshou ldindicateindetailandincludebutnotbelimitedto:

1. OrganizationChart:

Shallindicateheadofficeandfieldofficepersonnelinvolvedinmanagementandsupervision, engin eering, equipment maintenanceand purchasing.

2. Mobilization:

InPakistan, the type of facilities including personnel accommodation, of fice accommodation, provision formaintenance and for storage, communications, security and other services to be used.

3. MethodofexecutingtheWorks:

The procedures for installation of equipment and materials to the site.]

E-1 Schedule-EtoBid

LISTOF MAJOREQUIPMENT

[The Bidder will provide on Sheet E-2 of this Schedule a list of all major equipment and relateditems, under separateheading for items owned, to bepurchased or to bearranged on leasebyhim to carry out the Works. The information shall include make, type, capacity, and anticipatedperiodof utilization forallequipment.

The Bidder shall provide adequate information to demonstrate clearly that it has the capability tomeettherequirements for the key equipment listed in Sheet E-3.]

LISTOF MAJOREQUIPMENT

Owned, Purchased or Leased

OwnedPurc hasedorLeas ed	Description of Unit(Make, Model,Year)	Capacity HPRating	Condition	PresentLoc ation orSource	Date ofDelivery atSite	Period ofWork onProje ct
1	2	3	4	5	6	7
a.Owned						
b.Tobe Purchased						
c. To bearranged onLease						

LISTOF MAJOREQUIPMENT

Equipment details

Itemofequipment	temofequipment				
Equipmenti nformation	Nameofmanufacturer	Modelandpowerrating			
	Capacity	Yearofmanufacture			
Currentstatus	Currentlocation				
	Detailsofcurrentcommitments				
Source	Indicatesourceoftheequipment □Owned □Rented □Leased □Speciallymanufactured				
Thefollowinginformat	tionshallnotbeapplicableforequi	pmentownedbytheBidder			
Owner	Nameofowner				
	Addressofowner				
	Telephone	Contactnameandtitle			
	Fax	Telex			
Agreements	Detailsofrental/lease/manufac	tureagreementsspecifictotheproject			

[This Table shallbe used for each item of Equipments eparately]

F-1 Schedule-FtoBid

ORGANIZATION CHARTFORTHE SUPERVISORYSTAFFANDLABOUR

LISTOFSUBCONTRACTORS

I/ We intend to subcontract the following parts of the Work to subcontractors. In my/ our opinion,the subcontractors named hereunder are reliable and competent to perform that part of the workforwhicheach is listed.

Enclosed are documentation outlining experience of subcontractors, the curriculum vitae and experience of their key personnel who will be assigned to the Contract, equipment to be supplied by them, size, location and type of contracts carried out in the past.

Part of Works(GiveD etails)	Subcontractor(Wit hCompleteAddress)
1	2

ESTIMATEDPROGRESSPAYMENTS

Bidder's estimate of the value of work which would be executed by him during each of theperiodsstatedbelow,basedonhisProgrammeoftheWorksandtheRatesintheBillofQuantities,expres sedin thousandsof PKR:

Quarter	Amounts(1, 000PKR)
1	2
1 st	
2 nd	
rd 3	
th 4	
5 th	
6 th	
$7^{ m th}$	
8 th	
BidPrice	

CONSTRUCTIONCAMPANDHOUSINGFACILITIES

[TheBidderinaccordancewithClause6oftheConditionsofContractshallprovidedescriptionofhisconstructioncamp'sfacilitiesandstaffhousingrequirements.

The Biddershall listor explain his plans for providing these facilities for these rvice of the Contract as follows:

- 1. SitePreparation(clearing,landpreparation,etc.).
- 2. ProvisionofServices.
 - a) Electricalpower(expectedpowerload, etc.).
 - b) Water(requiredamountandsystemproposed).
 - c) Sanitation(sewagedisposalsystem, etc.)
- 3. ConstructionofFacilities
 - *a)* Contractor'sOffice.WorkshopandWorkAreas(areasrequiredandproposedlayout,typeofconstructionofbuildings,etc.).
 - b) WarehousesandStorageAreas(arearequired,typeofconstructionandlayout).
 - c) HousingandStaffFacilities(Plansforhousingforproposedstaff,layout,typeofconstruction,etc.).
- 4. ConstructionEquipmentAssemblyandPreparation(detailedplansforcarryingoutthisactivity).
- **5.** OtherItemsProposed(Securityservices,etc.)]

Note:

The Contractorshall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the Contractor's construction camp.

INTEGRITYPACT

DECLARATION OF FEES, COMMISSION AND BROKERAGE, ETC.PAYABLEBYTHEBIDDERS/CONTRACTORSOFGOODS,SERVICES& WORKSIN CONTRACTSWORTHPAK.RS.10.00MILLIONORMORE

ContractNo ContractValue: ContractTitle:	Dated
notobtained or induced the procu obligationor benefit from Governr	[Nameof Bidder/Contractor] hereby declares thatithas urement of any contract, right, interest, privilege or other ment of Pakistan (GoP) or any administrative subdivision or edorcontrolledby GoPthroughanycorrupt businesspractice.
andwarrants that it has fully declar anyoneand not given or agreed to outsidePakistan either directly or in affiliate, agent, associate, broker, subsidiary, any commission, gratification, bribe, the erwise, with the object of obtaining or in	of the foregoing, [Name of Bidder/ Contractor] represents ared the brokerage, commission, fees etc. paid or payable to give and shall not give or agree to give to anyone within or ndirectly through any natural or juridical person, including its consultant, director, promoter, shareholder, sponsor or finder's fee or kickback, whether described as consultation fee or oth nducing the procurement of a contract, right, interest, privilege or at soever form from GoP, except that which has been expressly
and arrangements with all persons	ies thatithas made and willmakefulldisclosureof allagreements in respect of or related to the transaction with GoPand has not ny action to circumvent the above declaration,representationor
falsedeclaration, not making full d defeatthe purpose of this declarati right, interest, privilege or other of	tepts full responsibility and strict liability for making any disclosure, misrepresenting facts or taking any action likely to ion, representation and warranty. It agrees that any contract, bligation or benefit obtained or procured as aforesaid shall, its and remedies available to GoP under any law, contract or tion of GoP.
fBidder/Contractor]agreestoindemn businesspracticesandfurtherpaycom commission, gratification, bribe, fin aforesaid for the purpose	diesexercisedbyGoPinthisregard,
Name of Employer:	
Signature: [Seal]	Signature: [Seal]

STANDARDFORMS

FORMOFBIDSECURITY

Securi	ityExecutedon	
Expiry	y on	(Date)
	ofSuretywithAddress:	(Date)
	(D): 1/D:11) :// A 11	
Name	ofPrincipal(Bidder)withAddress	
PenalS		(PakRupees)
BidRe	eferenceNo.	
esaidP (herein andtru erally, THEC	Principal(Bidder)we,theSuretyabovenamenafter called the 'Employer') in the sumulytobemade,webindourselves,ourheirs, firmly bythesepresents. CONDITIONOFTHISOBLIGATIONIS	stated above for the payment of which sum well executors, administrators and successors, jointly and several SUCH, that whereas the Bidderhas submitted the
accom	npanying Bid dated	for _(<i>ParticularsofBid</i>)tothe saidEmployer;and
(1)	WHEREAS, the Employer has requ theBidder furnishes a Bid Security in	nired as a condition for considering said Bid that in the above said sum to the Employer, conditioned I remain in force for a period fourteen (14) days
(2)	theEmployer within twenty eight (ders except the lowest three will be returned by 28) days from the opening of Bids, provided a id Security, or on the expiry of original validity of isearlier;
(3)	· · · · · · · · · · · · · · · · · · ·	hree Bidders comprising the successful Bidder will Bidder has furnished the required
(4)	PerformanceSecurity, the entire said	the successful Bidder to furnish the required sum be paid immediately to the said Employer structionstoBiddersforthe successful Bidder'sfailure
		der shall, within the period specified therefor, on centerintoaformalContractwiththesaidEmployer in

NOW THEREFORE, if the successful Bidder shall, within the period specified therefor, on the prescribed form presented to him for signature enterinto a formal Contract with the said Employer in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bidwithin the timespecified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the Employer the said sum upon first writtendemand of the Employer (withoutcavilor argument) and withoutrequiring the Employer toprove or to show grounds or reasons for such demand, notice of which shall be sent by the Employer by registered post dulyaddressed to the Surety at its address given above.

PROVIDED ALSO THAT the Employer shall decide, whether the Principal (Bidder) has dulyperformedhisobligationstosigntheContractAgreementandtofurnishtherequisitePerformanceSe curitywithinthetimestatedabove,orhasdefaultedinfulfillingsaidrequirements and the Surety shall pay without objection the said sum upon demand from theEmployerforthwithandwithoutanyreference tothePrincipal(Bidder)oranyotherperson.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its sealon the date indicated above, the name and seal of the Surety being hereto affixed and thesepresents duly signed by its undersigned representative pursuant to authority of its governing body.

		SURETY (ScheduleBank/InsuranceCompany)
WITNESS:		Signature
1	Name	 Title
CorporateSecretary(Seal)	_	CorporateGuarantor(Seal)
2Name,Title&Address		

FORMOFPERFORMANCESECURITY

	GuaranteeNo
	Executedon
	Expirydate
[LetterbytheGuarantortotheEmployer]	
NameofGuarantorwithaddress:	
NameofPrincipal(Contractor)withaddress:	
PenalSumofSecurity(expressinwordsandfigures)	
LetterofAcceptanceNo	Dated
KNOW ALL MEN BY THESE PRESENTS, to BiddingDocumentsandabovesaidLetterofAcceptance(hetofthesaidPrincipalwe,theGuarantorabovenamed,arehetofthesaidPr	ereinaftercalledtheDocuments)andatthereques ldandfirmlybounduntothe(hereinaftercalledtheEmp
loyer)inthepenalsumoftheamountstatedaboveforthepay	mentofwhichsumwellandtrulyto be made to our heirs, executors, administrators
$THE CONDITION OF THIS OBLIGATION IS SUCH, th\\ yer's above said Letter of Acceptance for \underline{\hspace{1cm}}$	
(NameofContra	act)forthe
	_(NameofProject).
NOW THEREFORE, if the Principal (Contractor) stheundertakings, covenants, terms and conditions of the said Documents and any extensions thereof that may without notice to the Guarantor, which notice is, her perform and fulfill all the undertakings, covenants term and all modifications of said Documents that may hereafter be may not be in the said Documents that may be reafter be made all modifications of said Documents that may be reafter be	dDocumentsduringtheoriginaltermsofthesaid be granted by the Employer, with or beby, waived and shall also well and truly as and conditions of the Contract and of any made, notice of which modifications to the Guara
requirements of Clause 11, Defects After Taking Over,	
Our total liability under this Guarantee is limited to the sums a ching to us under this Guarantee that the claim for payment in period of this Guarantee, failing which we shall be discharged to the control of the	writingshallbereceivedbyuswithinthevalidity
We,	
onsanddefenseundertheContract,doherebyirrevocablyan rwithoutdelayupontheEmployer'sfirstwrittendemandwith	

andwithoutrequiringthe Employer to prove or to show grounds or reasons for such demandany sum or sum supto the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarant or to Employer's designated Bank & Account Number.

PROVIDEDALSOTHATtheEmployershalldecide, whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer for thwith and without any reference to the Principal or any other person.

INWITNESSWHEREOF, the above-

bounden Guarantorhas executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being here to affixed and these presents duly signed by its under signed representative, pursuant to authority of its governing body.

	Guarantor (ScheduleBank/InsuranceCompany)
WITNESS:	Signature
1	Name
	Title
CorporateSecretary(Seal)	CorporateGuarantor(Seal)
2	
N. T. (1.0 A 11	
Name, Title & Address	

LO_{A-1}

Letterof Acceptance

[Letterhead paper of the Employer/NAMEOFCONTRACT: CONTRACTNUMBER: TO: _____ Date: YourReference: OurReference:__ fortheexecutionand WethankyouforyourBiddated ___ completion of the Works comprising the above-named Contract and remedying of defects therein, allin conformity with the terms and conditions contained in the Contract. Wehave pleasureinacceptingyourBidfortheAcceptedContractAmountof: [currencyandamountinfigures] [currencyandamountinwords] In consideration of you properly and truly performing the Contract, we agree to pay you theAccepted ContractAmountorsuchother sumsto which you may become entitledunder thetermsoftheContract, at such timesandasprescribed by the Contract. We acknowledge that this Letter of Acceptance creates a binding Contract between us, and weundertaketofulfilallourobligationsanddutiesinaccordance withthetermsof this Contract. Signed by: _____

Date:

Forandonbehalfof:

FORMOFCONTRACTAGREEMENT

TH	IISC	CONTRACTAGREEMENT(hereinaftercalledthe"Agreement")madeonthe
da		of (month) 20 between
		(hereinaftercalledthe"Employer")ofth
eo	nepa	ertand
he	othe	(hereinaftercalledthe"Contractor")oft rpart.
W	HEK	REAS the Employer is desirous that certain Works, viz., shouldbeexecutedbytheContractorandhasacceptedaBid
bv	theC	shouldbeexecuted by the Contractor and massaccepted a Bid Contractor for the execution and completion of such Works and the remedying of any defects therein.
-)		
NO)Wtl	hisAgreementwitnessedasfollows:
1.		this Agreement words and expressions shall have the same meanings as are pectively assigned to the minthe Conditions of Contracthere in afterreferred to.
2.	exc	e following documents, in the order of priority, after incorporating addenda, if any, ceptthosepartsrelatingtoInstructionstoBiddersshallbedeemedtoformandbereadandconstrueda artofthisAgreement:
	a)	ThisContractAgreement;
	b)	TheLetterofAcceptance;
	c)	The Letter ofBid;
	d)	TheParticularConditionsPartA-ContractData;
	e)	TheParticularConditionsPartB-SpecialProvisions;
	f)	TheGeneralConditions;
	g)	TheSpecificationsPartA-SpecificProvisions;
	h)	TheSpecificationsPartB-TechnicalProvisions;
	i)	TheDrawings;
	j)	TheCompletedSchedulestoBidincludingScheduleofPrices;
	k)	the JVUndertaking(ifthe Contractorisa JV);and

The addenda/corrigenda, if any, (Excluding part relating to Instructions to Bidders along withBidding Data) shall be deemed to have been incorporated at the appropriate places in the "Documents forming the Contract".

[Employertoinsertany otherdocumentsformingpartoftheContract]

- 3. In consideration of the payments to be made by the Employer to the Contractor as hereinaftermentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.
- 4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Worksasperprovisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

1)

INWITNESSWHEREOF the parties here to have caused this Agreement to be executed on the day, month and the parties here to have caused this Agreement to be executed on the day, month and the parties here to have caused this Agreement to be executed on the day, month and the parties here to have caused this Agreement to be executed on the day, month and the parties here to have caused this Agreement to be executed on the day, month and the parties here to have caused this Agreement to be executed on the day, month and the parties here to have caused the parties have caused the parties here to have caused the parties have caused the
yearfirstbeforewritteninaccordancewiththeirrespectivelaws.

SignatureofContactor	SignatureofEmployer
(Seal)	(Seal)
Signed, Sealed and Delivered in the presence of:	
Witness	Witness
(Name, Titleand Address)	(Name,TitleandAddress)

DAABAgreement

[Allitalicisedtextandanytextwithins quarebrackets(exceptsub-clauseheadings)inthisformofagreementisforuseinpreparingtheformand shouldbe deleted fromthefinalproduct].

Name and details of the Contract		
ThisAgreementmadetheay of_	[month],	[year],between
NameandcontactdetailsoftheEmployer		(name)
pp		(address)
1:0	• -	(telephone
lic	N	(email/othercontactdetails)
Nameandcontactdetailsofthe anactor	ot	(name)
		(address)
le	A	(telephone)
		(email/othercontactdetails);
NameandcontactdetailsoftheDAAB	pp	(no
Member	lic	
		(address)
	2h	(telephone)
	ab	(email/othercontactdetails);
("DAABAgreement")	10	
Whereas:	IC	

- A. the Employer and the Contractor have entered (or intend to enter) into the Contract;
- B. under the Contract, the "**DAAB**" or "**Dispute Avoidance/Adjudication Board**" meansthe sole member or three members (as stated in the Contract Data of the Contract) sonamed in the Contract, or appointed under Sub-Clause 21.1 [Constitution of the DAAB] orSub-Clause 21.2[FailuretoAppointDAAB Members] of the ConditionsofContract;
- C. the Employer and the Contractor desirejointly to appoint the above-named DAAB Memberto act on the DAAB as:
 - a. the sole member of the DAAB, and where this is the case, all references to the "OtherMembers" do not apply; or
 - b. one of three members / chairman [delete the one which is not applicable] of theDAABand, wherethisisthecase, theother two personsare:

	N	DAAB-2
	(name)	(name)
	(address)	(address)
	(telephane)	(telephone)
	(email/othercontactdetails)	(email/othercontactdetails)
	A	
	the"OtherMembers";and	
	D. theDAABMemberacceptsthisappoint nent.	
The	eEmployer,Contractor andDAABMember jointlyagro	ee asfollows:
1.	The conditions of this DAABA green ent comprise:	
	(a) Clause 21 [Disputes and Arbitration] of the other provisions of the Contract that are applicable to the contract that are applicable t	
	(b) the "General Conditions of Dispute Avoidar isappended to the General Conditions of Construction" Second Edition 2017 published by added to bythe following provisions.	the "Conditions of Contract for
2.	[Detailsofamendmentstothe GCs,ifany.Forexample:	
	Inthe proceduralrulesannexedtothe GCs,Rule_isdele	tedand replacedby:" "]
3.	TheDAABMembershallbepaidinaccordancewithClarshallbe	use9oftheGCs.Thecurrencyofpayment
	InrespectofSub-Clauses9.1and9.2oftheGCs, heamoudaily feeshall be:	ntsoftheDAABMember'smonthlyfeeand
	monthlyfeepermith,	
	anddailyfeeofper day	
	(orasotherwise setunderSub-Clause 9.3 of eGCs).	
4.	In consideration of the above fees, and other p Memberin accordance with the GCs, the DAAB I Member inaccordance with theterms of this DAAB A	Member undertakes to act as DAAB
5.	The Employer and the Contractor shall be jo DAABMember's fees and other parments to b accordance withthe GCs.	•
6.	ThisDAABAgreementshallbegovernedbythelawof (ifnotstated,the lawthatgovernedbythelawof ConditionsofContract).	etunderSub-Clause1.4of the

DAAB-3

SIGNEDby:	SIGNED by:	SIGNEDby:
Printname:	_	DAABMember
Title:	Title: Ot	Title:
for and on behalf of the Employer	for and on behalf of the Contractor	
inthepresenceof	in thepresence of	in thepresenceof
Witness:	Witness 10	Witness:
Name:	Name:	Name:
Address:	Address 1C	Address:
Date:		Date:
	1e	

FORMOFMOBILIZATIONADVANCEGUARANTEE/BOND

Guarantee No	Date
WHEREAS	(hereinaftercalledthe'Employer')
hasenteredintoa Contract for	
with	(ParticularsofContract)(hereinaftercalledthe"Contractor').
AND WHEREAS, the Employer has ag Contractor's request, an amount of Pak Rupees_	greed to advance to the Contractor, at the (PKR)whichamount
shallbeadvancedtothe Contractorasper provisio	
AND WHEREAS, the Employer has asked themobilizationadvance forthe performance of ANDWHEREAS,	
(hereinafter called the "Guarantor") at the re-	equest of the Contractor and in consideration of vance to the Contractor, has agreed to furnish the
advancefor the purpose of above mentioned	y guarantees that the Contractor shall use the Contract and if he fails and commits default in the advance payment is made, the Guarantor shall be g theaforementionedamount.
hisdiscretion of making decision, shall be give	art of the Contractor, of which the Employer at en by the Employer to the Guarantor, and on such neGuarantor ofallsumsthendueunderthisGuarantee atanyobjection.
This Guarantee shall remain in force until the theInterimPaymentCertificatesoftheContractore	e advance is fully adjusted against payments from oruntilwhicheverisearlier. (Date)
TheGuarantor'sliabilityunderthisGuaranteeshal PKR (Pak R).	lnotinanycaseexceedthesumof .upees
<u>-</u>	e aforesaid date and shall be null and void after made to the Contractor is fully adjusted against ContractorprovidedthattheGuarantor

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agreesthattheaforesaidperiodofvalidityshallbedeemedtobeextendedifontheabovementioneddatethead vance payment isnot fullyadjusted.

	Guarantor (ScheduledBank/InsuranceCompany)
WITNESS:	Signature
1	Name
	Title
CorporateSecretary(Seal)	CorporateGuarantor(Seal)
2	
Name.Title&Address	

CONDITIONSOFCONTRACT

CONDITIONSOFCONTRACT

The Conditions of Contract comprise two parts:

- (a) GeneralConditions
- (b) ParticularConditions

GeneralConditions

TheseConditionsarethe"GeneralConditions"whichformpartofthe"FIDICConditionsofContractfor Construction for Building and Engineering Works Designed by the Employer Second Edition(2017Redbook,Reprinted2022withamendments)"publishedby:

InternationalFederationofConsultingEngineers
(Fédération Internationale des Ingénieurs – Conseils) –
(FIDIC)WorldTradeCenterII-GenevaAirport
P.O. Box 311
CH-1215 Geneva
15Switzerland
Email:
fidic@fidic.org,fidic.pub@fidic.orgWebsit
e:https://fidic.org/bookshop

The successful Bidder after award of Worksshall have to provide two (02) copies of above said "General Conditions" for incorporation in the Contract.

Particular Conditions

(Mandatory Provisions not to be amended/substitutedexceptasinstructed/permittedby PECinwriting)

TheParticularConditions(PC)complementtheGeneralConditions(GC)tospecifydates,contractual requirements, and special circumstances related to the Works. The PC consists of twoparts, Part A - Contract Data and Part B - Special Provisions. The provisions to be found in theSpecialProvisions(ParticularConditions-

PartB)takeprecedenceovertheequivalentprovisions found under the same Sub-Clause number(s) in the General Conditions, and the provisions of the Contract Data (Particular Conditions - Part A) take precedence over the Special Provisions (Particular Conditions - Part B).

PartA-ContractData

Sub- Clause	DatatobeGiven	Data
1.1.27	DefectsNotificationPeriod(DNP):	1 Year
1.1.31	Employer'snameandaddress:	"PORT QASIM AUTHORITY" Karachi, Pakistan
1.1.35	Engineer'snameandaddress:	Director (Civil Maintenance) PQA Building No.3 Port Qasim Authority, Bin Qasim, Karachi -75020 Tele: +92-21-99272158
1.1.73	Sections:	Not Applicable
1.1.84	TimeforCompletion:	9 Months for whole of the Works
1.3(a)(ii)	agreedmethodsofelectronictransmission:	N/A
1.3(d)	addressofEmployerforcommunications:	Director (Civil Maintenance) PQA Building No.3 Port Qasim Authority, Bin Qasim, Karachi -75020 Tele: +92-21-99272158
	addressofEngineer Representativeforcommunications:	As per NIT
	addressofContractorforcommunications:	[insertContractor'saddressatthetimeof signingoftheContract]
1.4	Contractshallbegovernedbythelawof:	IslamicRepublicofPakistan
	rulinglanguage:	English
	languageforcommunications:	English

Sub- Clause	DatatobeGiven	Data
1.8	numberofadditionalpapercopiesofContracto r'sDocuments:	Six (06) copies
2.1	after receiving the Letterof Acceptance, the Contractorshall be given right of access to all or part of the Site within:	NolaterthantheCommencementDate.
3.2(e)(ii)	Engineer's Duties and Authority	Variation resulting in an increase oftheAcceptedContractAmountinexc ess of one percent (1%) subject toaccumulativeVariationsnotexceeding two percent (2%) of theAcceptedContractAmount
4.2	PerformanceSecurity(aspercentageoftheAc ceptedContractAmountinCurrencies) percent: currency:	Tenpercent(10%) Pakistani Rupees
4.2.1	ListofInsuranceCompanies	In the form of Bank Guarantee from any schedule bank in Pakistan with AA Rating PACRA (Karachi Base) within 14 days after the receipt of Letter of Acceptance.
4.7.2	Periodfornotificationoferrorsintheitemsofre ference	TwentyEight(28)days
4.19	periodofpaymentfortemporaryutilities	eachmonth
4.20	Number of additional paper copies of progress reports	Three (03) copies
5.1(a)	maximum allowable accumulated value ofwork subcontracted (as a percentage of theAcceptedContractAmount)	Fortypercent(40%)

Sub-Clause	DatatobeGiven	Data
5.1(b)	partsoftheWorksforwhichsubcontrac tingisnotpermitted	None
6.5	Normalworking hoursonthe Site	Eight (08) Hours
8.3	numberofadditionalpapercopies of programmes	Three (03) copies
8.8 &14.15(b)	DelayDamagespayableforeachday ofdelay	Rs. 0.1% for each day of delay of theAccepted Contract Amount for delay incompletionofwholeoftheWorks
8.8	maximum amount of DelayDamages	Tenpercent(10%)oftheAcceptedContra ctAmount
8.14	Applicability of Incentives forEarlyCompletion	Not Applicable
12.3	Percentageprofit	Tenpercent(10%)
13.4.(b)(ii)	percentageratetobeappliedtoProvisi onalSumsforoverheadchargesand profit	Not Applicable
14.2	TotalAdvancePayment	Not Applicable
14.2.1	ListofInsuranceCompanies	Not Applicable

Sub-Clause	DatatobeGiven	Data
14.2.3	percentagedeductionsfortherepaym entoftheAdvancePayment	Not Applicable
14.3	periodofpayment	one month
14.3(b)	numberofadditionalpapercopiesofSt atements	Three (03) copies
14.3(iii)	percentageofretention	Fivepercent(5%)
14.3(iii)	limitofRetentionMoney(asapercenta ge oftheContractPrice)	Fivepercent(5%)
14.5(b)(i)	PlantandMaterialsforpaymentwhen shipped	Not Applicable
14.5(c)(i)	PlantandMaterialsforpaymentwhend elivered to the Site	Not Applicable
14.6.2	minimumamountofInterimP aymentCertificate (IPC)	PKR 15.0 Million
14.7(a)	period of payment of AdvancePaymenttothe Contractor	Not Applicable
14.7b(i)	periodfortheEmployer tomakeinterim payments to the ContractorunderSub- Clause14.6[InterimPayment]	Fifty-Six (56)days

Sub-Clause	DatatobeGiven	Data
14.7b(ii)	periodfortheEmployer tomakeinterim payments to the ContractorunderSub- Clause14.13(FinalPayment)	Twenty-Eight (28) days
14.7(c)	periodfortheEmployertomakefinalp aymenttotheContractor	F <u>ifty-Six (</u> 56) days
14.8	financing charges for delayedpayment	Not Applicable
14.11.1(b)	numberofadditionalpapercopiesofdr aft FinalStatements	Six (06) copies
14.15	currencies of payment of ContractPrice	Payment will be made in Pak Rupees.
14.15(a)(i)	Proportions or amounts of LocalandForeign currencies	Not Applicable
14.15(c)	currencies and proportions forpaymentofDelayDamages	Not Applicable
14.15(f)	ratesofexchange	Not Applicable
17.2(d)	forcesofnature,therisksofwhichareal locatedto the Contractor	Nil
19.1	permitteddeductiblelimits:	
	i) insurance required for theWorks	i) Ten percent (10%) of loss amounton each & everyloss
	ii) insurancerequiredforGoods	ii) Nil
	iii) insurancerequiredforliabilityf orbreachofprofessionalduty	iii) Nil
	iv) insurancerequiredagainstliabil ityforfitnessforpurpose (ifanyisrequired)	iv) Nil
	v) insurance required for injurytopersonsanddamagetop roperty	v) Nil
	vi) insurance required for injurytoemployees	vi) Nil
	vii) otherinsurancesrequiredbyLa wsandbylocalpractice	vii)Nil

Sub-Clause	DatatobeGiven	Data
19.1	Periods for submission ofinsurance: a) evidenceofinsurance b) relevantpolicies	Not later than the CommencementDate Withintwentyeight(28)dayfromtheCommencementDate
19.2.1(b)	additional amount to be insured (asapercentageofthereplacementval ue)	15% of the replacement value(AcceptedContractAmo unt)
19.2.2	extent of insurance required forGoods amount of insurance required	fromEx- Works(i.e.,works,factory,warehouse,etc)todeliveryatthe Site Fullreplacementvalue
	forGoods	•
19.2.3(a)	amountofinsurancerequiredforliabil ity for breach of professionalduty	FullreplacementvalueoftheWorkstobe designed bytheContractor
19.2.3(b)	insurancerequiredagainstliabilityfor fitnessfor purpose	Yes
19.2.3	periodofinsurancerequiredforliabilit y for breach of professionalduty	Until the date of issuance ofPerformanceCertificate
19.2.4	amountofinsurancerequiredforinjur ytopersonsanddamagetoproperty	Injury to person and Fatal case:in accordance with WorkmenCompensationAct.
		As analysed and estimated by the Engineer Representative.
19.2.6	other insurances required by Lawsandby local practice	Allinsurancesasapplicable,totheextento fexecutionoftheproject, underFederalandProvinciallawsofIslam ic RepublicofPakistan
21.1	timeforappointmentoftheDAAB	Not Applicable

Sub-Clause	DatatobeGiven	Data
21.1	the DAABshallcomprise	Not Applicable
21.1	ListofproposedmembersofD AAB - proposedbyEmployer	Not Applicable
	- proposedbyContractor	
21.2	Appointing entity (official) forDAABmembers	Not Applicable
21.6	RulesofArbitration	PECRulesofConciliationandArbitration or Pakistan Arbitration Actof1940, if the formerisinactive.
		The place of Arbitration shall be in the Employer's country: Karachi

Summary of Sections of the Works

Section Name/Description ofparts of the Works that shallbe designated a Section for thepurposesofthe Contract (Sub-Clause1.1.73)	Value: Percentage*of AcceptedContract Amount(Sub- Clause14.9)	Time forCompleti on(Sub- Clause1.1.8 4)	Delay Damages(Sub- Clause8.8)
A			
В	Tot A 191	lioob	10
$_{\rm C}$	Not App	meau	16

^{*}Thesepercentagesshallalsobeappliedtoeach halfof theRetentionMoneyunder Sub-Clause14.9.

Section Name/Description(Su b-Clause1.1.73)	Time for Completion(Sub- Clause1.1.84)	Incentives for Early Completion(Sub- Clause8.14)
A		
В		
С		

Particular Conditions

PartB-SpecialProvisions

1.1 Definitions

1.1.76

"Specification" Following

isaddedattheend:

"andconsistsoftwopartsi.e.,

- i) "PartA-Specific Provisions"; and
- ii) "PartB-TechnicalProvisions"."

1.2 Interpretation

"and" is deleted from the end of sub-paragraph (i) and added at the end of sub-paragraph

(i).Sub-

paragraph(k)isadded:

"(k)The word "tender" is synonymous with "bid" the wordtendererwith "bidder", thewords "tenderdocuments" with "bidding documents" and "Schedule of Prices" with "Billof Quantities", asapplicable."

1.5 Priority ofDocume nts

Thedocumentslistedat(a)through(k)ofthisSub-Clausearedeletedand substituted with thefollowing:

- (a) theContractAgreement;
- (b) theLetterofAcceptance;
- (c) theLetterofBid;
- (d) the Particular Conditions Part A-Contract Data;
- (e) the Particular Conditions Part B-Special Provisions;
- (f) the General Conditions;
- (g) the Specification Part A-Specific Provisions;
- (h) the Specification Part B-Technical Provisions;
- (i) the Drawings;
- (j) thecompletedSchedulestoBidincludingBillofQuantities;
- (k) the JVUndertaking(if theContractorisaJV);and
- (1) anyotherdocumentsformingpartoftheContract.

The addenda/corrigenda, if any, shall be deemed to have beenincorporated at the appropriate places in the documents forming the Contract.

1.6 ContractAgreement

In the last line of the 1st paragraph the text "shall be borne by the Employer" is substituted by "shall be reimbursed by the Employer to the Contractor".

3.1 TheEngineer

Insub-paragraph(a)thetext"asdefinedinthePakistan EngineeringCouncilAct,1975(ActNo.Vof1976)"areaddedafterthewo rds"professional engineer".

3.2 Engineer's DutiesandAuthor

ity

The Engineer shall obtain the consent in writing of the Employerbefore taking action under the following Sub-Clauses of theseConditions:

(a) Consentingtothesubco ntractingofanypartoft heWorks

- underSub-Clause5.1[Subcontractors]
- (b) Certifying additional cost determined under Sub-Clause 4.12 "Not Foreseeable Physical Obstructions or Conditions".
- (c) Any action under Sub-Clauses 8.9 [Employer's Suspension] and 8.12 [Prolonged Suspension]
- (d) Issuanceof 'TakingOverCertificate' 'underSub-Clause 10.1 [TakingOvertheWorksand Sections].
- (e) Issuingthe"PerformanceCertificate"underSub-Clause 11.9[PerformanceCertificate].
- (f) Sub-Clause 13.1 [Right to Vary]: instructing a Variation, except;
 - (i) inanemergencysituationasdeterminedbytheEngineer,or
 - (ii) ifsuchaVariationwouldincreasetheAcceptedContract Amount by less than the percentage specifiedintheContract Data.
- (g) Sub-Clause 13.3 [Variation Procedure]: approving a proposal for Variation submitted by the Contractorina coordance with Sub-Clause 13.3.2 [Variation by Request for Proposal] or 13.2 [Value Engineering].
- (h) Certifying release of second half of the Retention MoneyunderSub-Clause 14.9[Release of RetentionMoney].
- (i) Issuing Final Payment Certificate under Sub-Clause 14.13[Issue of FPC].

Any such requirement shall not be applied to any action by the Engineer under Sub-Clause 3.7 [Agreementor Determination], as stated in Sub-Clause 3.2 [Engineer's Duties and Authority] of the General Conditions.

Notwithstandingtheobligation, assetoutabove, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Workson of adjoining property, he may, without relieving the Contractor of any of hisduties and responsibility under the Contract, instruct the Contracto r to execute all such work or to do all such things asmay, in the opinion of the Engineer, be necessary to abate orreduce the risk. The Contractor forthwith shall comply, despitetheabsenceofapprovaloftheEmployer,withanysuchinstruct ion of the Engineer. The Engineer shall determine anaddition to Contract Price, in respect of such inaccordancewithClause13andshallnotifytheContractoraccording ly, with a copy to the Employer.

Following is added after the words "the Employer's consent isrequired" in 4th paragraph:

"stating that the Employer's consent has been obtained for thatspecifiedauthority"

4.2 Performance Security

4.2.1 Contractor's Obligations

The entity issuing the Performance Security and its form shall beasunder:

The Performance Security shall be in the form of Guarantee issued by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the form of Bank Guarantee from any schedule bank in Pakistan with AA Rating PACRA (Karachi Base) within 14 days after the receipt of Letter of Acceptance.

In case of Joint Venture, the Performance Security shall be in thename of the Joint Venture or in the name of Lead/either firm ofthe JVorin ratioof sharesof theindividual JVpartners.

FollowingparagraphisaddedattheendofthisSub-Clause:

"The amount of Performance Security shall be reduced to 50% following issue of the Taking-Over Certificate for the whole ofthe Worksunder Clause 10 of Conditions of Contract."

4.3 Contractor'sR epresentative

In second paragraph the text "professional engineer as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)(having temporary licencein case of foreignengineer under Sect ion 12 of the Pakistan Engineering Council Act, 1975 (Act No. Vof 1976) "areadded after the words" qualified, experienced "

In the 3rd paragraph the words "28 days" are substituted by "14days".In2ndlineof4thparagraphthetext"orappointareplacement" is substituted by "except appointment of a suitabletemporaryreplacement isdeployed attheSite"

4.4 Contractor's Documents

4.4.2As-BuiltRecords

First paragraph is deleted and the text in the last paragraph issubstituted with the following:

"TheContractorshallfurnishto theEngineer6 copies, onereproducibleand electronic copy(provided one the Engineer has made available to the Contractor editable form of theDrawings) of all Drawings amended to conform to the Works as built. In case the Engineer does not make available to the Contractoreditable form of the Drawings, the Contractor shallfurnish to the Engineer as-built data for incorporation the Drawings. Upon receipt of PDF versions of the as-built drawings prepared by the Engineer, the Contractor furnishtotheEngineer6copiesandonereproducibleoftheseDrawin gs.

The price of such Drawings shall be deemed to be included in the Contract Price."

FollowingSub-Clause isadded:

4.4.4Shop Drawings

The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract asperprovision of relevant Sub-Clause of the Contract.

Review and approval by the Engineer shall not exceed 21 daysand be construed as a complete check but will indicate only thatthe general method of construction and detailing is satisfactoryandtheEngineer's review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

4.8 Health and SafetyObligations

The following text is added at the end of this Sub-Clause:

Intheevent ofwork beingcarriedoutoutsidethenormalworkinghours and intheevent ofwork beingcarriedout atnight, the Contractor shall at his own cost, provide and maintainsuch good and sufficient light as will enable the work to proceedsatisfactorily and without danger. The approaches to the Site andthe Works where the night work is being carried out shall besufficiently lighted. All arrangement adopted for such lightingshallbeto the satisfaction of the Engineer.

4.20 ProgressReports

Atthe end of sub-paragraph(g) the word "and" is deleted and at the end of sub-paragraph (h) the full stop (.) is replaced with ";", and the following new sub-paragraphs are added as:

- (i) planned programme for the execution of the Works for next56 days to enable the Engineer to determine its programmeofinspectionand testing;
- (j) monthly summery of daily job record indicating weatherconditions, deployment of Contractor's Equipment, labouremployment,localmaterialprocurementandmaterialim port,if any;and
- (k) salientcontractual and project information.
- (l) a) For purposes of Sub-Clause 4.20, the Contractor shall submit to the Engineer detailed programme for the following:
 - (1) Execution of Works;
 - (2) Labour Employment;
 - (3) Local Material Procurement;
 - (4) Material Imports, if any; and
 - (5) Other details as required by the Engineer.
- (m)During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8th day of the following month, electronic copy and 10 copies each of Monthly Progress Reports covering:

- (1) A Construction Schedule indicating the monthly progress in percentage;
- (2) Description of all work carried out since the last report;
- (3) Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
 - (4) Monthly summary of daily job record;
 - (5) Photographs to illustrate progress; and
- (6) Information about problems and difficulties encountered, if any, and proposals to overcome the same.
- (n) During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment.

5.1 Subcontractors

Addthe followingtextatthe endofparagraph(ii):

"underSchedule toBid"

The following is added at the end of the last paragraph of Sub-Clause 5.1:

"All subcontracts relating to the Works shall include provisionswhich entitlethe Employerto require the subcontract to be assigned to the Employer under sub-paragraph (a) of Sub-Clause 15.2.3 [After Termination].

The Contractor shall give reasonable opportunity to contractorsfromIslamicRepublicofPakistanforsubcontractsforthe Works,andendeavourtoemploysuchcontractorsasSubcontractors.

5.2 NominatedSub contractors

5.2.2 ObjectiontoNomination

In sub-paragraph (c), "and" is deleted from the end of (i); "." at the end of (ii) is replaced with: ", and".

The followingisthenadded as(iii):

"(iii)be paid only if and when the Contractor has received fromthe Employer payments for sums due under the Subcontractreferred to under Sub-Clause 5.2.3 [Payment to no minated Subcontractors]."

6.1 Engagement of StaffandLabour

The following paragraphis added at the end of the Sub-Clause:

"The Contractor shall, to the extent practicable and reasonable, employ staff (not less than 50%) and labour (not less than

85%) with appropriate qualifications and experience from sources with in the Islamic Republic of Pakistan."

6.7 Health and Safety of Personnel

The existing text is substituted with the following:

"In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for

thepurposesoforinconnectionwiththeContractshallbecarriedoutinc ompliance with the Safety Requirements of the GovernmentPakistan with such modifications thereto as the Engineer may authorize or direct and the Contractor shall take or ause to be taken such further measures and comply suchfurtherrequirementsastheEngineermaydeterminetobereasona bly necessary for such purpose. The Contractor shall alsoprovide all other medical services and appoint a health and safetyofficeratSiteifstatedintheSpecifications.Incaseofanyfatality orseriousaccident,theContractorshall,inaddition,notifytheEnginee rimmediatelybythequickestavailablemeans."

6.8 Contractor's Superintendence

Insertatthe endofsub-paragraph(a)ofthisSub-Clause:

"or,ifnot,theContractorshallmakecompetentinterpretersavailable during all working hours, in a number sufficient forthose personstoproperlyperformtheirsuperintendence duties"

The following text is added at the end of this Sub-Clause:

"The Contractor's authorized representative and his other engineers working at site shall possess valid registration with the Pakistan Engineering Council.

The Contractor's authorized representative at Siteshall beauthorized to exercise a dequate a dministrative and financial powers on behalf of the Contractor so as to achieve completion of the Worksasper the Contract."

6.12 KeyPersonnel

The following is inserted at the end of the last paragraph:

"If any of the Key Personnel are not fluent in this language, the Contractor shall make competent interpreters available during allworkinghours in a number deemed sufficiently the Engineer."

The following Sub-Clauses 6.13 to 6.26 are added at the end of Sub-Clause 6.12:

6.13 ForeignPersonnel

The Contractor may bring into the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor

residencevisasandworkpermits. The Employer will, if requested by the Contractor, use all reasonable endeavours in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national, or government permission required for bringing in the Contractor's personnel.

The Contractors hall be responsible for the return of these personnel to the contractors hall be responsible for the return of the separation of the contractors hall be responsible for the return of the separation of the contractors hall be responsible for the return of the separation of the separheplacewheretheywererecruitedortotheirdomicile. In the event of the death Country of in the any thesepersonnelormembersoftheirfamilies, the Contractorshall simil arlv responsible for making appropriate arrangements for their return or burial.

6.14 SupplyofFoodstuffs

The Contractorshall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

6.15 Supplyof

Water

The Contractors hall, having regard to local conditions, provide on the Site anadequate supply of drinking and otherwater for the use of the Contractor's Personnel.

6.16 Measures againstInsect and PestNuisance

The Contractorshall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from in sect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate in secticide.

6.17 AlcoholicLiquoror Drugs

The Contractor shall not, otherwise than in accordance with the Lawsofthe Country, import, sell, give, barterorotherwise dispose of any alcoholic liquorordrugs, or permitor allowimportation, sale, gift, barter or disposal thereto by Contractor's Personnel.

Armsand Ammunition The Contractor shall not give, barter, or otherwise dispose of, toanyperson,anyarmsorammunitionofanykind,orallowContractor's Personnel todo so.

The Contractor shall respect the Country's recognized festivals, days of restand religious or other customs.

6.19 Festivalsand ReligiousCustoms

ForcedLabour

The Contractor shall be responsible, to the extent required bylocal regulations, formaking any funeral arrangements for any of its local employees who may die while engaged upon the Works.

6.20 FuneralArran gements

6.18

6.21

TheContractor, including

itsSubcontractors,shallnotemployorengage forced labour which consists of any work or service, notvoluntarily performed, that is exacted from an individual underthreatof forceor penalty, and includes anykindof involuntaryor compulsory labour, such as indentured labour, bonded labourorsimilar labour-contractingarrangements.

6.22 ChildLabour

The Contractor, including its Subcontractors, shall not employer engage child labour in accordance with relevant law(s) inforcein Islamic Republic of

Pakistan.

6.23 Employment RecordsofWorkers

The Contractor shall keep complete and accurate records of theemployment of labour at the Site. The records shall include thenames, ages, genders, hoursworked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the detailst obesubmitted by the Contractor under Sub-Clause 6.10 [Contractor's Records].

6.24 Workers' Organizations

The Contractor shall comply with the relevant labour laws of Pakistan which recognize workers' rights to form and to joinworkers' organizations/TradeUnionoftheir choosing and to barg aincollectively without interference.

6.25 Non-Discrimination and Equal Opportunity

The Contractors hall not make decisions relating to the employment or treatment ofContractor's Personnel the on basisofpersonalcharacteristicsunrelatedtoinherentjobrequirement s. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity andfair treatment, and shall not discriminate with respect to anyaspects the employment relationship, including of recruitmentandhiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, jobassignment, promotion, termination of employmentorret irement, and disciplinary practices.

Specialmeasuresofprotectionorassistancetoremedypastdiscrimina tionorselectionforaparticularjobbasedontheinherentrequirementso fthejobshallnotbedeemeddiscrimination. The Contractorshall provi deprotection and assistance as necessary to ensure nondiscrimination and equal opportunity, including for specific groups such as women, person swith disabilities, migrant workers and children (of working ageinac cordance with Sub-Clause 6.22).

6.26 Epidemics

Intheeventofanyout-breakofillnessofepidemicnature,the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government orthelocalmedicalorsanitary authorities for the purpose of overcomin gthesame.

7.7 Ownership of PlantandMaterials

The following is added before the first paragraph: "Exceptasotherwise provided in the Contract,"

The following is added at the end of the Sub-Clause:

"NoPlantand/orMaterialsthatisthepropertyoftheEmployershall be removedfromtheSite.Ifitbecomesnecessary to:

(i) removeanyitemofsuchPlantfromtheSiteforthepurposes of repair, the Contractor shall give a Notice, withreasons, to the Engineer requesting consent to remove thedefective or damaged item off the Site. This Notice shallclearly identify the item of defective or damaged Plant, andshallgivedetailsof:thedefectordamagetoberepaired;the place to which defective or damaged item of Plant is

to be taken for repair; thetransportationtob eused(andinsurance coverforsuchtransp ortation);thepropose

- inspections and testing off the Site; and the planned duration required before the repaired item of Plant shall be returned to the Site. The Contractor shall also provide any further details that the Employer may reasonably require; or
- (ii) replaceanyitem(s)ofsuchPlantand/orMaterials,theContractor shallgiveaNotice,withreasons,totheEngineerclearlyidentifyi ngtheitem(s)ofPlantand/orMaterialstobe replaced, and giving details of the due date of delivery totheSite ofthereplacement item(s).

WhereanyitemofPlantand/orMaterialshasbecometheproperty of the Employer under this Sub-Clause before it hasbeen delivered to the Site, the Contractor shall ensure that suchanitemisnotmovedexcept foritsdeliverytothe Site.

The Contractor shall indemnify and hold the Employer harmlessagainstandfromtheconsequencesofanydefectintitleorenc umbrance or charge (except any reasonable restriction arisingfromtheintellectualpropertyrightsofthemanufacturerorprod ucer) on any item of Plant and/or Materials that has becomethepropertyoftheEmployerunderthisSub-Clause."

The following Sub-Clause 7.9 is added after Sub Clause 7.8:

7.9 UseofPakistani Materials andServices

The Contractorshall, so far as may be consistent with the Contract, make the maximum use of materials, supplies, plantand equipment in digenous to or produced or fabricated in Pakistan nand services available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

The following is added before the first paragraph:

8.1 Commencement of Works

"After signing of the Contract Agreement by both Parties," andthereaftertheword "The" is replaced with the word "the".

The following is added after paragraph (c): "for last five years".

Extensionof TimeforCompleti on

8.14

8.5

IncentivesForE arlyCompletion

If Contract Data does not state applicability of incentives forearlycompletion, this Sub-Clause shall not apply.

The Contractors hall be entitled subject to Sub-

Clause 20.2 [Claims for Payment and/or EOT] to bonus payment if the Works and/or each Section is completed earlier than the Time for Completion for the Works or Section (as the case may be). The amount of bonus for early completion of the Works and/or each Section shall be upto a limit and at a rate to 50% of the relevant timit and rate of delay damages prescribed in Contract Data and shall be baid for each lay with the elapse between the relevant Date of Completion of the Works or Section and the relevant Time for Completion.

Forthepurposesofcalculatinganybonuspayment, the applicable Time for Completion stated in the Contract Data is fixed and no adjustments of this time by reason of granting an

EOT willbeallowed.

ThefollowingSub-Clause11.12isaddedafterSub-Clause11.11:

11.12 Supervisory Assistance DuringDNP

If provided under the Schedule of Prices, the Contractor shallprovide supervisory assistance to the Employer during the DNPfor the Works. Such supervisory assistance shall be as described in the Specification for the purpose of supporting the Employer's operation and maintenance of the Plant for the period specified in the Schedule of Prices after the Date of Completion.

12.2 Methodof Measurement

The following paragraphis added at the end of the Sub-Clause:

"Summary of measured quantity for payment shall be delineateditem-

wiseunderfourheadsnamely; "ScheduleofPricesQuantity", "QuantityExecutedTo-

12.3 Valuation of the Works

date", "QuantityCertifiedPreviously" and "NetQuantityExecutedu nderthisCertificate".

The following text is added at the end of fifth paragraph of the Sub-Clause:

"Sum of overhead charges and profit for sub-paragraph (a) shallbe Twenty Fivepercent (25%)".

13.4 Provisional Sums

The following paragraph is inserted as the penultimateparagraph:

"The Provisional Sum shall be used to cover the Employer's share of the DAAB members' fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall berequired with respect to the work of the DAAB. The Contractorshall submit the DAAB members' invoices and the satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those Statements submitted under Sub-Clause 14.3.

13.6 Adjustmentsfor ChangesinLaws

The following paragraphs are added at the end of the Sub-Clause:

"Notwithstandingtheforegoing,theContractorshallnotbeentitled to an extension of time if the relevant delay has alreadybeentakenintoaccountinthedeterminationofapreviousexte nsionoftimeandsuchCostshallnotbeseparatelypaidifthesameshalla lreadyhavebeentakenintoaccountintheindexingofanyinputstotheT ableofAdjustmentDatainaccordance with the provisions of Sub-Clause 13.7 [AdjustmentsforChangesin Cost]."

14.1 The ContractPrice The following is added at the end of the Sub-Clause:

"Notwithstandingtheprovisionsofsubparagraph(b), Contractor's Equipment, including essential spareparts, imported by the Contractor for the sole purpose of executing the Contract shall be temporarily exempt from the payment of import duties and taxes upon initial importation, provided the Contractor shall post with the customs authorities at the port of entry an approved re-export bond or bank guarantee, valid until the Time for Completion plus six months, in an amount equal to the full import duties and taxes which would be payable on the

assessedimported value of such Contractor's Equipment and spare parts, and callable in the event the Contractor's Equipment is not re-

exportedfromtheCountryoncompletionoftheContract. A copy of the bond or bank guarantee endorsed by thecustoms authorities shall the be provided by Contractor the Employer upon the importation of individualitems of Contractor's Equipmentandspareparts. Uponre-export of individual Contractor's Equipment or spare parts, oruponthecompletionoftheContract,theContractorshallprepare, for approval by the customs authorities, an assessment of the residual value of the Contractor's Equipment and sparepart to be re-exported, based on the depreciation scale(s) andother criteria used by the customs authorities for such purposesunder the provisions of the applicable Laws. Import duties andtaxes shall be due and payable to the customs authorities by the Contractor on (a) the difference between the initial imported value and the residual value of the Contractor's Equipment andspare parts to re-exported; and (b) on the initial imported value of the Contractor's Equipment and spare parts remaining in the Country after completion of the Contract. Upon payment of such dues within 28 days of being invoiced, the bond or bank guaranteeshallbereducedorreleasedaccordingly; otherwise these curity shall b ecalledinthefullamountremaining."

[The Employer may change or delete this Sub-Clause as perProject requirements]

14.2 AdvancePayment

4.2.1 AdvancePaymentGuarantee

The entity issuing the Advance Payment Guarantee and its formulation be asunder:

The Advance Payment Guarantees hall be in the form of Guarantee issued by (a) a Scheduled Bank in Pakistan or (b) aforeign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the form of Bank Guarantee from any schedule bank in Pakistan with AA+ Rating PACRA (Karachi Base) within 14 days after the receipt of Letter of Acceptance.

In case of Joint Venture, the Advance Payment Guarantee(s)shall be in the name of the Joint Venture or in the name ofLead/either firm of the JV or in ratio of shares of the individualJVpartners.

14.6 IssueofIPC

14.6.1The IPC

In the first line of the 1st paragraph the words "28 days" aresubstitutedby "14days".

14.7 Payment

The words "or through crossed cheque in favour of the Contractor or JV partners. The Payment to JV partners shall bemadeattherequestoftheJointVenturesintheratiooftheir

sharesspecifiedbythem" areadded at the end of the Sub-Clause.

14.8 DelayedPayment

Inthefirstparagraph, thirdline, the words "compounded monthly" are deleted.

The text of 2nd paragraphis belet dand substituted with the following:
"The Hamployer shall pay to the Contractor compensation at the rate stated in the Contract Data."

15.2 Terminationfor Contractor's Default

15.2.1 Notice

Following text is added at the end of sub-paragraph (h) of thisSub-Clause:

"ForthepurposesofthisContract,corruptandfraudulentpracticeshav ebeendefinedinPublicProcurementRules2004."

15.2.3AfterTermination

The word "and" at the end of sub-paragraph (ii) of paragraph (b)is deleted the following paragraph is added after sub-paragraph(iii):

"(iv) allEmployer-

SuppliedMaterialsand/orEmployer'sEquipmentmadeavail abletotheContractorinaccordancewithSub-Clause2.6[Employer-SuppliedMaterialsand Employer'sEquipment], and"

15.4 Paymentafter Termination

The following text is added at the end of this Sub-Clause:

"The Employer shall be entitled to sell any of the Contractor's Equipment, Temporary Works and unused materials and applythe proceeds of sale towards payment of any debt due from

16.2 Terminationby Contractor

the Contractor to the Employer under this Clause including anyoutstanding payments to the Subcontractors.

16.2.1Notice

The sub-paragraph (i) is deleted in its entirety.

At the end of sub-paragraph (i) "; or" is replaced with "." and atthe endofsub-paragraph (h) "; "isreplaced with "; or".

In sub-paragraph (f) "84 days" are replaced with "180 days" andtext "for reasons not attributable to the Contractor" is added atthe end.

16.3 Contractor's Obligations AfterTerminatio

Sub-paragraph(c)isdeletedandreplacedwith:

- "(c)deliver to the Engineer all Employer-Supplied Materialsand/orEmployer'sEquipmentmadeavailabletotheC ontractorinaccordancewithSub-Clause2.6[Employer-SuppliedMaterialsandEmployer'sEquipment]; and
- (d) remove all other Goods from the Site, except as necessaryforsafety,andleavetheSite."

17.1 Responsibility forCareoftheWorks

After the two instances of "Goods" in the last paragraph, thewords "Employer-

SuppliedMaterialsand/orEmployer'sEquipment" areadded.

The following Sub-Clause 17.7 is added after Sub-Clause 17.6:

17.7 Use of Employer's Accommodation/Facilities

The Contractor shall take full responsibility for the care of theitems of the Employer's facilities and/or accommodation, if any,asdetailed intheSpecification, fromthedateofuseand/oroccupation by the Contractor until the date on which such useand/oroccupation isre-vested intheEmployer.

If any loss or damage happens to any of the above items during atime while the Contractor is responsible for its care, arising from any cause other than a cause for which the Employer is responsible or liable, the Contractor shall promptly rectify the loss or damage at the Contractor srisk and cost.

18.1 ExceptionalEvents

Thewords "or disorder" are replaced with "disorder orsabotage" insub-paragraph (c) of the Clause.

18.4 Consequencesofan ExceptionalEvent

The following is added at the end of sub-paragraph (b) afterdeletingthe".":

", including the costs of rectifying or replacing the Works and/orGoodsdamagedordestroyedbyExceptionalEvents,totheexte ntthey are not indemnified through the insurancepolicyreferred to in Sub-Clause 19.2 [Insurance to be provided by theContractor]."

18.5 Optional Termination

In sub-paragraph (c), the words "and necessarily" are added afterthe words "was reasonably".

19.1 GeneralRequi rements

Followingtextisaddedattheendoffirstparagraph:

"The Contractor shall immediately after the date of the Letter of Acceptance submitthed rafto finsurance policies for the Employer' sconsent."

Followingtextisaddedatthe endofthirdparagraph:

"The Contractor shall, within the respective periods stated in the Contract Datasubmitto the Engineer and the Employera) evidence that the insurances described in this Clause have been effected, and b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5."

19.2 Insurance to be rovided by the Contractor

19.2.5Injurytoemployees

The words "sickness, disease" are deleted in the third line of firstparagraph.

The following Sub-Clause is added after Sub-Clause

19.2.6:19.2.7InsuranceCompany

"TheContractorshallbeobligedtoplaceallinsurancesfrom any schedule bank in Pakistan with AA+ Rating PACRA (Karachi Base)described in this Clause with insurers listed in the Contract Data.

21.6 Arbitration

Theword"international"is deleted in the sixthline of first paragraph. The text of subparagraph (a) is substituted with the following:

"the Disputes hall be finally settled under the Rules of Arbitration, specified in the Contract Data;"

The followingClausesareaddedafterClause 21

22 CustomDuty

[Employermayincorporate provisions where applicable. However, in order to make the bid more balanced, the payment of Customs Duties should be the responsibility of the Employer.]

23 Taxes

The Contractor, Subcontractors and their employees shall beliable to pay income tax, withholding tax, super tax and other taxes on income arising out of the Contract. The rates and prices as stated in the contract shall be deemed to cover all such taxes.

24 IntegrityPart

If it is found and established at any stage that the Contractor orany of his Subcontractors, agents or servants have violated orinvolvedinviolationoftheIntegrityPactsignedbytheContractorth entheEmployer shallbeentitled to:

- (a) recover from the Contractor an amount equivalent to tentimesthesumofanycommission, gratification, bribe, finder's fee or kickback given by the Contractor or any ofhisSubcontractors, agentor servants;
- (b) terminatetheContract; and
- (c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agent or servants.

The termination under sub-paragraph (b) of this Sub-Clauses hall proceed in the manner prescribed under Sub-Clause 15.1 to

15.4 and the payment under Sub-Clause 15.4 shall be made afterhaving deducted the amounts due to the Employer under sub-paragraph(a) and (c) of thisSub-Clause.

SPECIFICATIONS PARTA-SPECIFICPROVISIONS & PARTB-TECHNICALPROVISIONS

01 GENERAL

The General Conditions of Contract Part I & II shall form an integral part of these General Requirements.

The Contractor shall notify all sub-contractors of the provisions of the Conditions of Contract and the General Requirement of this Specification.

The arrangement and divisions of these Specifications is not to be construed as establishing the limits of responsibility of sub-trades.

The Contractor is responsible for delineating the scope of Sub-Contracts and for coordinating all the Works.

All works shall be carried out in accordance with the following specifications, supplemented by detailed specifications contained in the following sections. Any inconsistencies or ambiguities shall be brought to the notice of the Engineer for his clarification/decision. Decision and direction of the Engineer, in all such cases, shall be final and binding.

The Contractor shall make himself thoroughly familiar with the site conditions, foresee any and all problems likely to the encountered during execution of the works, and shall be able and ready to solve them effectively. Proposals for solutions to the problems shall be submitted to the Engineer for approval before proceeding with the work.

02 APPLICABLE CODES AND STANDARDS

In the absence of other Standards being required by the Contract Documents, all work and materials shall meet the requirement of the Uniform Building Code of the United States, and/or applicable American Society for Testing Materials (ASTM) American Association of State Highway and Transportation Officials (AASHTO) Specifications and the latest American Concrete Institute Manual of Concrete Practice and American Institute of Steel Construction (AISC) Manual relevant to the Works except in cases where the Pakistan Building Code requires a higher standard. In such cases the Pakistani Code shall govern. Where the abbreviations listed below are used, it refers to the latest code, standards, or publication of the following organizations:

AASHTO American Association of State Highway and Transportation Officials.

ACI American Concrete Institute

AISC American Institute of Steel Construction

ANSI American National Standards Institute

ASA American Standard Association

ASCE American Society of Civil Engineers

ASTM American Society for Testing and Material

AWS American Welding Society

BSI British Standards Institute

BSICP British Standard Institute Code of Practice

PCA Portland Cement Association

PSI Pakistan Standard Institute

UBC Uniform Building Code

NHA Schedule.

Should the Contractor, at any time and for any specific reasons, wish to deviate from the above standards or desires to use materials or equipment other than those provided for by the above standards, then he shall state the exact nature of the change giving the reasons for making the change and shall submit complete specifications of the materials and descriptions of the equipment for the Engineer's approval, whose decisions shall be conclusive and binding upon the Contractor.

03 CODES, STANDARDS, CERTIFICATES

The Contractor shall supply and have at his site office:

Copies of all latest editions of codes and standards referred to in these specifications by number, or equivalent codes and standards approved by the Engineer.

Catalogues and published recommendations from manufacturers supplying products and materials for the project.

The Contractor shall provide manufacturer's or supplier's certificates to the Engineer for all products and materials which must meet the requirements of a specific code or standard as stated in these Specifications.

04 UNITS OF MEASUREMENTS

The International System of Units (SI) shall be used throughout this Project or as directed by "The Engineer".

05 MANUFACTURER'S RECOMMENDATIONS

Installation of manufactured items shall be in accordance with procedures recommended by the manufacturer or as approved by the Engineer.

06 EXISTING CONDITION AT SITE

Drawings and information pertaining to existing project conditions are furnished for reference.

Neither the Employer nor the Engineer warrants the adequacy or correctness of these.

07 PROTECTION AND PRECAUTIONS

The Contractor and his sub-contractors shall afford all necessary protection to existing structures and will be required to make good at his own expense any damage done to such structures through his own or his representatives or subcontractors' fault and negligence.

The Contractor and his sub-contractors shall afford all necessary protection to existing roads in the area. He will clear and make good at his own expense any damage to or debris on these roads through his own fault and negligence. He must at all-time ensure the free and normal flow of traffic and shall not cause obstruction to the traffic system. The Contractor and his sub-contractors shall provide and maintain necessary protection and precautionary measures such as warning signs, warning lamps and barricades etc. to prevent accidents.

The Contractor shall promptly correct all such damage to original condition at no additional expense to the Employer.

The Contractor shall cooperate with trades performing work under other Contracts as necessary for completion.

08 SETTING OUT OF WORK

Establish all boundaries, markers, levelling stakes and bench marks on the site to adequately set out all work. Verify all data and their relationship to establish and Engineer's survey control points and public bench-marks and report discrepancies to the Engineer Permanently mark the necessary controls for distance and elevation sufficient to serve throughout the Contract and protect these control points adequately against damage and displacement.

Project setting out is for the use of all trades; each trade is responsible for the layout of its own work.

09 SEQUENCE OF CONSTRUCTION

The Contractor shall submit his proposal for approval of the Engineer the sequence of Construction, prior to starting the works. The works shall be executed as per approved sequence of construction.

10 LINES AND LEVELS

Survey control points will be established by the Engineer. The Contractor shall be responsible for verifying these and shall be responsible for all requirements necessary for the execution of any work to the locations, lines, and levels specified or shown on the drawings, subject to such modifications as the Engineer may require as work progresses.

11 PARTIAL POSSESSION

Whenever, as determined by the Employer any portion of work performed by the Contractor is in a condition suitable for use, the Employer may take possession of or use such portion.

Such use by the Employer shall in no instance be construed as constituting final acceptance, and shall neither relieve the Contractor of any of his responsibilities under the Contract, nor acts a waiver by the Employer of any of the conditions thereof, provided that the Contractor shall not be liable for the cost of repairs, rework, or renewals which may be required due to ordinary wear and tear resulting from such use. However, if such use increase the cost or delays to the completion of remaining portions of work, the Contractor will be entitled to an equitable adjustment.

If, as a result of the Contractor's failure to comply with the provision of the Contract, such use proves to be unsatisfactory, the Employer will have the right to continue such use until such portion of the work can, without injury to the Employer, be taken out of service for correction of defects, errors, omissions, or replacement of unsatisfactory materials or equipment, as necessary for such work to comply with the Contract; provided that the period of such operation or use pending completion of appropriate remedial action shall not exceed twelve months unless otherwise mutually agreed upon in writing between the parties.

12 EXISTING SERVICES

The Contractor shall search for, find, locate and protect any wiring, cable, duct, pipework, etc., within or immediately adjoining the site area.

The Contractor shall take full responsibly for safety of existing service lines, utilities and utility structures uncovered or encountered during excavation and construction operations.

The Contractor shall take full responsibility for damaging any such service lines, utility/utility structure and any cost and/or expense that arises or issues from any such damage shall be borne directly by himself. Should any damage to any such service occur the Contractor shall forthwith take remedial action, initiate safety precautions, install temporary services and carryout repair all at his own cost and expense and inform the Engineer and notify all relevant authorities? Existing utilities which are to remain in service for or after the works are to be determined by the Contractor. If any existing service lines, utilities and utility structures which are to remain in service are uncovered or encountered during these operations, they shall be safeguarded, protected from damage, and supported.

13 PLANT AND EQUIPMENT

The Contractor shall submit a detailed list of plant and equipment which he shall undertake to bring to the site to carry out the work. The list shall satisfy the Engineer as to type, size and quantity. The list shall include for each piece of equipment the type, manufacturer, model, identification number and year of manufacture. The Contractor shall provide on the site of the work at his cost all of the equipment listed and all subsequent equipment required for approval of the detailed programmer of work and such equipment which may be directed by the Engineer. The Contractor shall supply all plant and equipment necessary for the construction of each phase of the work and it must be on site, inspected and approved by the Engineer.

14 CONSTRUCTION AREA AND ACCESS

The Contractor shall confine his operations to the areas that are actually required for the Works and shall fence the area accordingly. Arrangements for access roads, storage areas and routes for haulage of materials are to be made by the Contractor at his own cost, subject to the approval of the Engineer.

15 STORAGE & HANDLING FACILITIES

The Employer will provide the Contractor possible space within or nearby the area of site of works for the storage of plant, equipment and materials and for Contractor's temporary office, during the currency of the Contract. In case the adjacent area as required by the Contractor is not available within the Project boundary for storage of plant, equipment and machines then the Contractor shall arrange at his own expense possible space for storage of plant, equipment and machines at his own cost and expense. On no account shall such temporary installations conflict/interfere with any of the permanent installations, services and any operational function of Employer. The handling and storage of all plants, equipment and materials at site shall be the sole responsibility of the Contractor and at no risk and cost to the Employer.

The Contractor shall protect all material against corrosion, mechanical damage or deterioration during storage and erection on site. The protection methods shall be to the approval of the Engineer.

16 TEST LABORATORY AND TESTING

- **16.1** Testing, except as otherwise specified herein, shall be performed by an approved testing agency as proposed by the Contractor and at no extra cost to the Employer. The Engineer may require all testing to be carried out under his supervision only.
- **16.2** If suitable and adequate material testing laboratory is not available in the vicinity, then the Contractor shall provide and maintain a materials testing laboratory in the vicinity of the Contractor's Camp and the laboratory shall have sufficient working area and shall be equipped with all necessary facilities including a suitable store room.
- **16.3** The Contractor shall supply and maintain to the satisfaction of the Engineer or his representative complete testing equipment, apparatus, tools, gauges, instruments, etc. in sufficient number and adequate for all tests to be carried out as specified in these specifications. Valid calibration certificates of gauges / instruments / equipment shall be provided by the Contractor.
- **16.4** The Contractor, after the approval by the Engineer for the source of cement and steel shall make available at the site sufficient stock of the materials in advance in order to allow sample testing for quality control prior to use.
- **16.5** The quality control testing shall be performed by the Contractor's competent personnel in accordance with a site testing and quality control programme to be

established by the Contractor and approved by the Engineer or his Representative. The Contractor shall keep a complete record of all quality tests performed on site and submit the same to the Engineer. All quality control and related tests shall be carried out in accordance with applicable standards and codes.

17 CONSTRUCTION & CHECKING AT SITE

The Contractor shall submit to the Engineer in due time for approval and discussion, his proposals and plans as to the method and procedure to be adopted for the temporary and permanent works involved.

The submitting to these suggestions and arrangements, and the approval thereof by the Engineer shall not relieve the Contractor of his responsibilities and duties under the Contract.

The carrying out of all work included in the Contract is to be supervised by a sufficient number of qualified representatives of the Contractor and full facilities and assistance are to be afforded by the Contractor for the Engineer or his Representative to check & examine the execution of the work.

The Engineer reserves the right to inspect all parts of the works but may at his discretion waive inspection on certain items. This shall in no way absolve the Contractor from his responsibilities. This particularly applies to the checking of materials, the accurate setting out of foundations, and to the levelling, setting and aligning of the various parts, and to the proper fitting and adjustment of manufactured and finished materials and fixtures in position.

If the Engineer or his Representative find that the work progress is slow in such a way that the works or parts thereof will not be completed in the time specified, then he shall order the Contractor to work overtime or in shifts and the Contractor shall comply. These arrangements will be free of all financial encumbrances and at no additional costs to the Employer.

In the event of night work, the Contractor shall provide sufficient and adequate lighting to the satisfaction of the Engineer or his Representative and shall supply the necessary manpower for satisfactory continuation of the work after normal hours.

18 BAR BENDING SCHEDULE

Bar bending (reinforcement bars) schedule of all drawings shall be prepared by the Contractor and submitted in triplicate to the Engineer for approval.

19 DRAWINGS

19.1 The Contractor shall submit the drawings along with the repair/maintenance/ Construction proposals duly designed and vetted by reputable consultant registered with Pakistan Engineering councile (Valid certificate) under the field of specialization 1201, 1203, 1204, 1217 & 1215.

All the tests required for designing as well as execution of work are the responsibility of Contractor and no extra payment in this regard would be paid.

- **19.2** Drawings Issued for Construction of various parts of the Works based on Construction programme approved by the Engineer for issuance to the Contractor from time to time.
- **19.3** Study of Drawings: The Contractor shall study all Drawings Issued for Construction carefully as soon as practicable after receipt thereof, and any errors discovered shall promptly be brought to the knowledge of the Engineer for his instructions.

19.4 Drawings to be furnished by the Contractor:

(a) Shop Drawings.

All shop drawings required for the work including all kinds of fabrication, field erection, installation, placement and layout drawings shall be furnished by the Contractor for approval of the Engineer. If additional detail drawings are necessary to complete any part of the work, such including reinforcing steel, drawings shall be prepared by the Contractor and submitted to the Engineer for approval. All drawings shall be complete and shall be submitted in due time and in logical order to facilitate proper coordination.

(b) Lift and placement Drawings.

At least thirty calendar days prior to starting construction of any concrete lift or other placement, the Contractor shall submit lift or other placement drawings to the Engineer for approval. Lift or other placement drawings shall be submitted for each lift or other placement of concrete to be placed. These drawings shall be to such scale as to clearly show all recesses, openings, and embedded parts, including embedded structural steel, mechanical and electrical items, reinforcement placement in each lift in sufficient detail for proper execution of the work.

(c) Construction Plant Layout Drawings.

Three prints of drawings, showing the layout of construction plant and equipment the Contractor proposes to use on the work, shall be submitted by the Contractor for review to the Engineer. The drawings shall show the locations of the principal components of the construction plant, offices; storage areas and yards which the Contractor proposes to construct or use at the site of the work and elsewhere. The drawings shall also show the unloading facilities for materials and equipment at the work site.

19.5 Submissions and Approvals:

(a) Except as otherwise specified, three copies of each drawing for approval or review shall be furnished to the Engineer. Within thirty calendar days after receipt, the Engineer will send one copy to the Contractor marked Approved, Approved/Except as Noted, or Returned for Correction. The notations Approved and Approved/Except as Noted will authorize the Contractor to proceed with the fabrication of the materials and equipment covered by such drawings subject to the corrections, if any, indicated thereon.

Correction will be resubmitted for approval in the same manner as for new drawings. Every revision made during the life of the Contract shall be shown by number, date and subject in a revision block.

- **(b)** Upon receipt of prints which have been Approved or Approved Except as Noted, the Contractor shall furnish three prints plus one reproducible of each drawing to the Engineer. If revisions are made after a drawing has been approved, the Contractor shall furnish 3 additional prints and one reproducible subsequent to each approved revision.
- (c) Shop drawings to be prepared by a Sub-contractor shall be submitted in the same manner as (a) & (b) above but they will be submitted through the Contractor.
- (d) All of the applicable requirements of this Clause with reference to drawings to be prepared by the Contractor, including Sub-contractors, shall apply equally to catalogue cuts, illustrations, printed specifications, or other data submitted for approval.
- (e) Any work done on Contractor's drawings shall be at the Contractor's risk. The Engineer will have the right to request any additional details and to require the Contractor to make any changes in the drawings which are necessary to conform to the provisions and intent of design and specifications without additional cost to the Employer. The approval of the drawings by the Engineer shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory. Approval by the Engineer of the Contractor's drawings shall not be held to relieve the Contractor of his obligation to meet all the requirements of the Specifications or of his responsibility for the correctness of the Contractor's drawings or of his responsibility for correct fit of assembled parts in final position or of his responsibility for the adequacy of method of construction.

20 AS-BUILT DRAWINGS

The Contractor shall, at all times, keep on the site one copy of all drawings and approved samples together with copies of all building, mechanical, electrical and public safety codes and relevant standards applicable to the works. All such material shall be made available to the Engineer.

In addition, the Contractor shall, at all times, keep on site a separate set of prints on which shall be noted neatly, accurately and promptly as the work progresses all significant changes between the work shown on the drawings and that which is actually constructed. The sub-Contractors shall each keep on site, at all times, a separate set of prints of the drawings showing their parts of the work on which shall be noted, neatly accurately and promptly as work progresses the exact physical location and configuration of the works as actually installed, including any revisions or deviation from the Contract Documents.

At the completion of the works, the Contractor shall at his expense, supply to the Engineer six copies and one reproducible copy of all drawings alongwith CD containing all as built drawings amended to comply with the work "As Built". The Contractor shall provide in the same format as the original drawings, any

additional drawing required to record the work.

21 RESTORATION AND CLEANING

The Contractor shall do regular cleaning and clean away all rubbish and excess materials that may accumulate from time to time on completion and before handing over. Upon completion of the works he shall obliterate all signs of temporary construction facilities such as work areas, structures, foundations of temporary structures, stock piles of excess or waste materials, or any other vestiges of construction, unless otherwise directed by the Engineer. The works and site shall be left in a clean and satisfactory state for immediate use and occupation. Care shall be taken not to use any cleaning materials which may cause damage to the surface to be cleaned.

22 PROTECTION OF THE WORKS

The Contractor shall whenever necessary cover up and protect the works from weather and damage by his own or other workmen performing subsequent operation. He shall provide all necessary dust sheets, barriers and guard rails and clear away the same at completion.

The Contractor shall take all proper steps for protection at all places on or about the works which may be dangerous to his workmen or any other person or to traffic. The Contractor shall provide and maintain warning signs, warning lamps and barricades as necessary.

23 PRODUCT DATA

Manufacture's standard schematic drawings shall be modified or deleted to indicate only information which is applicable to the project. Such standard information shall be supplemented to provide all additional applicable information.

Manufacturer's catalogue sheets, brochures, diagrams, schedules, performance charts, illustrations and other standard descriptive literature shall be clearly marked to identify pertinent materials products or models. Dimensions and required clearances shall be indicated. Shop performance characteristics and capacities shall be noted.

24SAMPLES

- **24.1** The Contractor shall furnish for approval of the Engineer with reasonable promptness all samples as directed by the Engineer or specifically called for in these Specifications. The Engineer shall check and approve such samples with reasonable promptness for compliance with the requirements of Contract Documents. All work shall be in accordance with approved samples.
- **24.2** Duplicate final approved samples, in addition to any required for the Contractor's use, shall be furnished to the Engineer, one for office use and the

other for the Site.

- **24.3** Samples shall be furnished so as not to delay fabrication, allowing the Engineer reasonable time for consideration of the sample submitted.
- **24.4** Each sample shall be properly labeled with the name and quality of the material, manufacturer's name, name of the project, the Contractor's name and the date of submission, and the Specifications Article number to which the sample refers.
- **24.5** The manufacturer's installation directions shall be provided with each sample. The Contractor shall pay all transportation costs and deliver samples to the Engineer's office, Site or testing laboratory as directed by the Engineer.

Samples will not be returned unless return is requested at the time of submission; all packing and transportation costs for the return of samples shall be paid by the Contractor.

- **24.6** Samples shall be of adequate size and number to permit proper evaluation of the material by the Engineer. Where variations in colour, texture, dimensions or other characteristics are to be expected, the Contractor shall submit samples showing the maximum range of variation. Materials exceeding the range of variation of the approved samples shall not be used on the Work.
- **24.7** If both Shop Drawings and samples are required for the same item, the Engineer may require both to be submitted before approving either.
- **24.8** No acceptance or approval of any Shop Drawings or sample, or any indication or directions by the Engineer on any Shop Drawings shall constitute an authorization for any increase in the Contract Sum.

25 PRODUCT QUALITY AND HANDLING

Suppliers of local and foreign products and installations specified shall have been regularly engaged in the business of manufacturing, fabricating, installing and / or servicing work required for a period not less than 5 years. In addition, the Engineer may request as appropriate a:

- List of similar installations that describes project, scope and date of completion.
- Complete literature, performance data, and technical data.
- List of services record within Pakistan.
- Location of service office from which this installation could be maintained.

For the actual fabrication, installation, and testing of the specified work, use only thoroughly trained and experienced workmen completely familiar with the items required and with the manufacturers recommended methods of installation. In acceptance or rejection, no allowance will be made for the lack of skill on the part of workmen.

Use all means necessary to protect materials before, during and after installation and to protect the installed work and materials of all other trades. In the event of damage, immediately make all repairs and replacement necessary for approval and at no additional cost to the Employer.

26 INSPECTION & TESTS REPORTS

All equipment and materials furnished under these specifications and all work performed in connection therewith will be subject to rigid inspection by the Engineer or the Engineer's Representative. Acceptance of equipment and material or the waiving off inspection thereof shall in no way relieve the Contractor of his responsibility for meeting the requirements of the Contract.

The Contractor shall furnish the Engineer with certified true copies of test reports of all materials used in the manufacture and fabrication of all equipment and material including metal work, steel pipes, fire bricks etc. The result of these tests shall be in such form as to show compliance with the applicable Specifications, standards and codes for the material used.

27 ACCIDENT PREVENTION, PROTECTIVE EQUIPMENT

The Contractor shall comply and enforce compliance by all his sub-Contractors with the highest standards of safety and accident prevention in accordance with international standards and in compliance with all applicable laws, ordinances and statutory provisions in Pakistan.

All requisite barriers, fences, warning signs, lights and other safety precautions as required for the protection of persons and property on or adjacent to the site shall be provided at the Contractor's cost.

All warning signs shall be in two languages, English and Urdu, and shall at all times be maintained in a clean and legible condition, to the satisfaction of the Engineer. Trash shall be removed at frequent intervals to the satisfaction of the Engineer.

28 TEMPORARY FACILITIES

The Contractor shall provide, erect or install, maintain, alter as necessary and remove on completion except as otherwise directed by the Engineer all temporary facilities and services including access roads as described hereinafter and/or in the Contract Document.

The Contractor's temporary site office shall be available for use not later than one month after the date of the site handing over.

Installation of temporary services at the site shall be given priority over all other construction at the site.

28.1Temporary Road

The Contractor shall prepare and maintain such temporary roads as may be necessary, from the site to the nearest road and also within the site. Such roads shall be positioned strictly in accordance with the Engineer's instructions and the Contractor shall reduce or control any dust nuisance by spraying with water as directed. The Contractor shall satisfy himself as to the locations and nature of the proposed access routes to the site and shall be responsible for preventing any

damage whatsoever to adjacent property and vegetation and keeping the access road free from debris at all times.

28.2 Temporary Services

28.2.1 Temporary Water Supply

The Contractor shall supply in sufficient quantity all necessary potable and other water for construction purposes for all trades at point within a reasonable distance of the work. He shall make arrangements and pay charges for water service installation, maintenance and removal thereof, and pay the costs of water for all trades.

When the permanent water supply and distribution system has been installed, it may be used as the source of water for construction purposes provided that the Contractor obtains the written approval of the Engineer and the Employer and assumes full responsibility for the entire water distribution system and pays all charges/costs for operation and maintenance of the system mutually agreed between the Employer and the Contractor.

Temporary pipe lines and connections from the permanent service line, whether outside or within the area of site of works but necessary for the use of Contractor and his sub-contractor shall be installed, protected and maintained at the expense of the Contractor.

At completion of the work or at such time as the Contractor makes use of the permanent water supply installation, the temporary water services equipment and piping shall be removed by the Contractor at his own expense.

28.2.2Temporary Electricity

The Contractor shall make all the necessary arrangements for a temporary electricity service, pay all expense in connection with the installation, operation and removal thereof and pay the costs of electricity consumed by all trades.

In the event that the site cannot be connected to a local electricity network or where the available power is insufficient the Contractor has to make his own provision and maintain such installation.

A temporary lighting system shall be furnished, installed and maintained by the Contractor as required to satisfy the minimum requirements for safety and security. The temporary lighting system shall afford adequate general illumination to all building areas. Adequate outdoor lighting shall be provided to illuminate staging trenches and the like to the satisfaction of the Engineer and general illumination throughout adequate for watchmen and emergency personnel.

Temporary equipment and wiring for power and lighting shall be in accordance with the applicable provisions of governing codes. Temporary wiring shall be maintained in a safe manner and utilised so as not to constitute a hazard to persons or property.

When the permanent electrical power and lighting systems are in an operating condition, they may be used for temporary power and lighting for construction purposes provided that the Contractor obtains the written approval of the Engineer and the Employer and assumes full responsibility for the entire power

and lighting system and pays all charges/costs for operation and maintenance of the system mutually agreed between the Employer and the Contractor.

Approval, license etc. if required under local laws will be obtained by the Contractor on his own responsibility and cost.

At completion of construction work, or at such time as the Contractor makes use of permanent electrical equipment and devices, temporary electricity services shall be removed by the Contractor as his own expense.

28.2.3Waste Disposal

The Contractor shall make such temporary provisions as may be required in order to dispose of any chemicals, fuels, grease, bituminous materials, waste and soil waste and the like without causing pollution to either the site or the environment. Disposal of any materials, wastes, effluents, garbage, oil, grease, chemicals and the like shall be in areas specified by the concerned local authority proposed by the Contractor and subject to the approval of the Engineer. If any waste material is dumped in unauthorized areas the Contractor shall remove the material and restore the area to the condition of the adjacent undisturbed area. If necessary, contaminated ground shall be excavated, disposed off as directed by the Engineer and replaced with suitable fill material compacted and finished with topsoil all at the expense of the Contractor.

28.2.4Fire Protection

The Contractor shall provide and maintain adequate fire protection in the form of barrels of water with buckets, fire bucket tanks, fire extinguishers, or other effective means ready for instant use, distributed around the project and in and about temporary inflammable structures during construction of the works.

Gasoline and other flammable liquids shall be stored in and dispensed from safety containers approved by the Engineer and storage shall not be within building.

Torch-cutting and welding operations performed by the Contractor shall have the approval of the Engineer before such work is started and a chemical extinguisher is to be available at the location where such work is in progress.

The Contractor shall follow the instructions and specifications of the Civil Defence Department and or other local authority.

28.2.5Telephone

The Contractor shall immediately after receiving the Letter of Acceptance take the necessary steps to obtain a mobile and landline telephone on site. He shall be responsible for all installation and connection charges and periodic mobile and landline telephone accounts. The telephone shall be made available to the Engineer for the due performance of his duties at all times and free of charge during construction and defects liability period.

29CONSTRUCTION SCHEDULE

A Construction schedule shall be maintained in accordance with the provisions of the General Conditions of Contract.

The schedule shall be accompanied with sufficient data and information including all necessary particulars of constructional plant, equipment machinery, temporary Works, arrival of plant, equipment at site and their installation, method of operation, work forces employed, etc., for an activities of the Works.

Should the Engineer consider any alteration or addition in the programme and time schedule, the Contractor shall conform thereto without any cost to the Employer.

Whenever necessary and wherever the progress of the actual work shows departure, the programme and time schedule shall be undated and submitted to the Engineer for his approval.

30 NOTIFICATION TO THE ENGINEER

The Engineer's Representative shall be notified daily in writing of the nature and location of the Works the Contractor intends to perform the next day so as to enable necessary inspection and measurement to be carried out. The Engineer may, if necessary, direct that longer notice be given of certain operations.

31 NIGHT WORK

When work is done at night the Contractor shall maintain from sunset to sunrise such lights on or about his work and plant as the Engineer may deem necessary for the proper observations of the work and the efficient prosecution hereof.

32 WEATHER

No work is to be undertaken when, in the opinion of the Engineer, the weather is so unsuitable that proper protection of the work cannot be ensured.

33CO-ORDINATION WITH OTHER CONTRACTORS

The Contractor shall make all necessary coordination with other Contractor and shall make sure that all embedding components such as pipes, steel bases etc. (as required for completion of electrical works) are properly, accurately and timely installed.

The Contractor shall inform the other contractor the schedule of any construction activity well in advance giving him sufficient time to finish his part of job, before any compaction/concreting etc. The Contractor shall get the signature of the authorized representation of the other contractor before carrying out any construction activity.

If any part of electrical work is damaged or has to be dismantled or redone due to negligence/omissions/incorrect position of the embedding etc. on part of the Contractor, all such losses/expensed shall be borne by the Contractor.

All expenses incurred for the above works including coordination are deemed to be covered in his tendered cost and no separate/extra payment shall be paid against such item.

34SUBMISSION REQUIREMENTS

- **34.1** Schedule submission at least sixty days before the dates when reviewed submittals will be needed.
- **34.2** Submit Shop Drawings as per provision given in Sub-Clause 19.5 (a) and number of copies of Product Data which the Contractor requires for distribution plus four copies which will be retained by the Engineer.
- **34.3** Submit three samples unless otherwise specified.
- **34.4** Accompany submittals with transmittal letter, in duplicate, containing:
- Date
- Project title and number
- Contractor's name and address
- The number of each Shop Drawing, Product Data and the Sample submitted.
- Notification of deviations from Contract Documents.
- Other pertinent data.

35RESUBMISSION REQUIREMENTS

Shop Drawings:

- Revise initial drawings as required and resubmit as specified for initial submittal.
- Indicate on drawings any changes which have been made by the Engineer.
- Product Data and Samples: Submit new data and samples as required for initial submittal.

36 SURVEY INSTRUMENTS

All the instruments, equipment, stakes and other material necessary to perform all work shall be provided by the Contractor. The survey work shall be carried out by competent staff consistent with the current practices. The Contractor shall maintain on site surveying instruments in perfect working conditions to enable the Engineer to check lines and level at all times.

Survey instruments and equipment shall include but not limit to the following:

- Electronic Total Station
- Electronic Data Recorder
- Disto Laser Meter
- Precision Level Invert Staff
- Automatic Levels

- Power level
- Compass, steel tape, ranging poles

37 WEEKLY PROGRESS REPORT AND PHTOGRAPHS

- **37.1** During the continuance of the Contract, the Contractor shall submit weekly progress reports on forms as approved by the Engineer. Such weekly reports shall show the actual progress completed as of date of the report plotted against the schedule as given by the Contractor at the start of work and shall be broken down so as to indicate status of all activities associated with mobilization design, material procurement, manufacture, surveys works, tests with regard to the agreed contract programme.
- **37.2** The Employer and the Engineer reserve the right to coordinate the schedules of this Contractor and other Contractors working at the Site, and to adjust and/or change any and 0100-14 all such schedules as required during the course of construction in order to achieve a coordinated project in harmony with the Employer's completion date.
- **37.3** Commencing after the first week of construction, and continuing every week until completion, the Contractor shall take and submit photographs to the Engineer's Representative, to show progress of his work and completion of each structure or major feature.

38 CONTRACTOR TO NOTIFY DELAYS ETC.

Any delay which will affect the completion of Works shall be detailed by the Contractor who shall state the action he is taking for effective completion of the Contract programme.

The Contractor shall submit a report in respect of the various sections of the Works, the equipment in use or held in readiness, a return of labour and supervisory staff, and details of any matters arising which may generally affect the progress of the work.

The Contractor shall give a summary of the detailed progress report giving the position with regard to the agreed Contract programme.

The progress reports shall be set out in a format to the approval of the Engineer, and forwarded promptly so that on receipt the information contained therein is not more than 21 days out of date.

If during execution of the Contract, the Employer considers the progress position of any section of the work to be unsatisfactory, or for any other reason relating to the Contract, he will be at liberty to convene a meeting and the Contractor's Representatives are to attend such meeting.

The Contractor's Site Office shall prepare and submit 6 copies of a weekly progress report to the Employer and Engineer's Site Office. This report shall summarize site activities and record and details where difficulties in maintaining the agreed programme are being experienced or are likely to cause subsequent

delay.

The Contractor's Site Office shall also prepare and submit to the Engineer's Site Office 2 copies of Daily Activity Report summarizing the main activities to be undertaken each day, noting special activities such a tests, alignment checks, etc. The Contractor shall be responsible for expediting the delivery of all material and equipment to be provided by him and his subcontractors.

39 PHOTOGRAPHS

As soon as work commences on Site, the Contractor shall provide photographs (at least 10 to 12) of the works from positions to be selected by the Engineer. Each photographic print shall not be less than 297mm x 210mm and shall bear a printed description, a serial number and the date when taken.

The negatives of all photographs shall be held at the Contractor's Site Office, numbered and handed over to the Emplopyer at the completion of the Contract.

40. FACILITIES FOR THE ENGINEER & EMPLOYER

40.1 Engineer's Site Office

The Contractor shall setup Engineer's Site office at an area of 80 Sqm approximate by repairing and renovating which includes addition alteration (i.e wall panelling, tile flooring, glass partition, glass windows false ceiling etc) of existing offices at any floor complete in all respect.

40.1Site Office

The Engineer's office shall be furnished and equipped with new and unused furniture, equipment, electrical fittings etc., as per the list given below and as per requirement or directed by Engineer.

- Wooden office table with drawers and side racks 01 (One) No.
- Office Chairs 03 (Three) Nos.
- Wooden sitting visitors chairs with arms (standard size) 04 (Four) Nos.
- Steel filing cabinet (standard size) 01 (One) No.
- Color Printer 01 (One) No.
- Desktop / Laptop (Latest)
- Ceiling / Pedistal Fan
- Office Stationary and accessories
- Drinking water
- Water for Toilets & Cleaning purposes
- Peon 01 (One) No..

If any equipment, furniture and installations become unserviceable for any reason whatsoever the Contractor shall promptly replace the same as and when

directed by the Engineer. The Engineer's office with fittings, fixtures and all other equipment/accessories shall be maintained and operational for the entire duration of construction period as well as for the duration of subsequent defects liability period.

40.2 Transport

During the currency of contract one 1600CC Motor vehicle (not more than 5 years old make) will be provided and maintained by the Contractor with estimated fuel of 400 litre / month along with maintenance etc. to Engineer's Representative. No direct cost will be paid for these items. Contractor must include cost of the facility in the rates of other items of works.

41 Specifications

In general, for road works ancillary works and structure works the National Highway Authority Specifications shall be followed. Whereas for building works Drainage water supply and electrical works PWD Specifications shall be followed.

TABLEOFCONTENTSOFSPECIFICPROVISIONS

SP.No.	Description
SP-1	General
SP-2	Applicable Codes and Standards
SP-3	Codes, Standards, Certificates
SP-4	Units of Measurements
SP-5	Manufacturer's Recommendations
SP-6	Existing Condition at Site
SP-7	Protection and Precautions
SP-8	Setting Out Of Work
SP-9	Sequence of Construction
SP-10	Lines and Levels
SP-11	Partial Possession
SP-12	Existing Services
SP-13	Plant and Equipment
SP-14	Construction Area and Access
SP-15	Storage & Handling Facilities
SP-16	Test Laboratory and Testing
SP-17	Construction & Checking at Site
SP-18	Bar Bending Schedule
SP-19	Drawings
SP-20	As-Built Drawings
SP-21	Restoration and Cleaning
SP-22	Protection of the Works
SP-23	Product Data
SP-24	Samples

Sp.No.	Description
SP-25	Product Quality and Handling
SP-26	Inspection & Test Reports
SP-27	Accident Prevention, Protective Equipment
SP-28	Temporary Facilities
SP-29	Construction Schedule
SP-30	Notification To The Engineer
SP-31	Night Work
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SP-33	Co-ordination with other Contractors
SP-34	Submission Requirements
SP-35	Resubmission Requirements
SP-36	Survey Instruments
SP-37	Weekly Progress Report and Photographs
SP-38	Contractor To Notify Delays etc.
SP-39	Photographs
SP-40	Facilities For The Engineer & Employer
SP-41	Specifications

DRAWINGS