

WATER WORKS DIVISION, MIRPURKHAS.

Thandi Sarak Gama stadium, Near Director Nara Canal Office Mirpurkhas

No. SC/G-148/ 376 of 2016

Mirpurkhas dated

23/08/2016

EXPRESSION OF INTEREST FOR

CIVIL ENGINEERING CONSULTANTS

Name of Works:

DESIGNING / SUPERVISION AND MONITORING THE WORKS
FOR "CONSTRUCTION OF PRE-TREATMENT SYSTEM FOR RO
PLANT LBOD WATER SUPPLY SCHEME AT NABISAR FOR
THAR COAL POWER PROJECT".

Project Director Thar Coal Water Works Project @ Mirpurkhas Irrigation Department Government of Sindh, intends to undertake the work for designing / supervision and Monitoring the works "Construction of Pre-Treatment System For RO Plant LBOD Water Supply Scheme at Nabisar For Thar Coal Power Project". Under SPPRA Rules 2010. The period of Consultancy is 14 months.

- 2. Interested Consultants / Firms are invited to register their Expression of Interest (EOI) for participation in short listing of eligible Consultancy / Firms by applying on the prescribe format, on payment of Rs.3000/- which may be obtained from the office of the Executive Engineer Thar Coal Water Works Division Mirpurkhas during working hours from the publication in Newspapers upto 19-09-2016 the related information duly completed in all respect should reach upto 20-09-2016 till 1:00 P.M in the office of Project Director Thar Coal Water Works Project @ Mirpurkhas Camp at Left Bank Barrage Colony, Hyderabad Tel: 022-9210131, Fax: 022-9210133 Email Address: pdtcwwpm@hotmail.com under relevant provision of SPPRA Rules and open on same date at 1.30 pm.
- 3. Consortium consisting of more than two (02) firms will not be eligible for the participation in the prequalification procedures.
- 4. The Firms/ Consultants having vast experience in Designing Supervision for Construction of water purification plants in preparing biding documents and evaluation of Contractors etc shall be eligible for participation in short listing.

- 5. The consultant having renewal Certificate of PEC for the year 2016, with the allocation of code No.1205 shall only be eligible for participation in, short listing of Civil Engineering Consultants for proposed consultancy services
- 6. The consultants must have the latest GIS with Hydro analysis licensed software's for Slope Stability Analysis, Finite Element Seepage Analysis System, FEM Seismic Analysis, HEC-RAS & HEC-HMS along with its complete knowledge of operation.
- 7. The prequalification documents EOI as mentioned above should be submitted to the office of the Project Director Thar Coal Water Works Project @ Mirpurkhas Camp at Left Bank Barrage Colony, Hyderabad on or before 20-09-2016.
- Conditional and late applications shall not be entertained.
- If firms do not supply the full information in accordance with requirement of EOI
 the proposal shall be considered as non responsive
- 10. The consultant / firms must be registered with Sindh Revenue Board (SRB)
- The procuring Agency may reject all or any bids subject to the relevant provisions SPPRA Rules 2010.

AIJAZ AHMED QURESHI

Executive Engineer, Thar Coal Water Works Division, Mirpurkhas

Copy forwarded with compliment to the:-

- 1. P.S to Minister Irrigation Department Government of Sindh for favour of kind information.
- 2. Secretary Irrigation Department Government of Sindh Karachi for favour of kind information.
- 3. Project Director Thar Coal Water Works Project Mirpurkhas for favour of kind information.
- 4. Superintending Engineer Thar Coal Water Works Circle Mirpurkhas.
- 5. Sindh Public Procurement Regulatory Authority, Block -8, 4-A, Sindh Secretariat Karachi.
 - Director of Information (Advt;) publication on Block No:96 Sindh Secretariat, Karachi with 6
 Copies for one insertion in three daily leading Newspapers i.e Sindhi, Urdu and English.

7. Copy to NOTICE BOARD.

AIJAZ AHMED QURESHI

Executive Engineer, Thar Coal Water Works Division, Mirpurkhas

OFFICE OF THE SUPERINTENDING ENGINEER THAR COAL WATER WORKS CIRCLE MIRPURKHAS NO.SE/TCWWC/Asstt /MPS/ 90 8 OF 2016, MIRPURKHAS, DATED 17 / 8 /2016.

To,

The Project Director, Thar Coal Water Works, @ Mirpurkhas.

SUBJECT: - REQUEST FOR CONSTITUTION OF COMMITTEE FOR REDRESSAL OF COMPLAINTS.

The Executive Engineer Thar Coal Water Works Division Mirpurkhas vide his office letter No.SC/G-148/349 dated 12.08.2016 submit that the work of "Construction of Pre-treatment system for RO Plant LBOD Water Supply Scheme at Nabisar for Thar Coal Power Project. is to be carryout in his Division.

You are requested to kindly constitute the Complaint Redressal Committee for redressal of complaint so that Executive Engineer Thar Coal Water Works Division Mirpurkhas can able to process further in the matter.

SUPERMYENDING ENGINEER

AR COAL WATER WORKS CIRCLE

MIRPURKHAS

The Executive Engineer Thar Coal Water Works Division Mirpurkhas for Information.



OFFICE OF THE PROJECT DIRECTOR THAR COAL WATER WORKS @ MIRPURKHAS

Camp at Left Bank Barrage Colony, Hyderabad

Email Address: pdtcwwpm@hotmail.com

Fax: 022-9210133

Tel: 022-9210131

No.PD/TCWWM/TC/2016/633

Hyderabad dated

22/08/2016.

To.

The Superintending Engineer Thar Coal Water Works Circle Mirpurkhas.

SUBJECT:-

CONSTITUTION OF COMMITTEE FOR PROCURING CONSULTING SERVICES FOR PRE-TRETMENT SYSTEM FOR RO PLANT LBOD WATER SUPPLY SCHEME AT NABISAR FOR THAR COAL POWER PROJECT.

For the transparency for procuring / evaluating bids for Consulting Services for the ADP scheme namely "Construction of Pre-Treatment System for Ro Plant LBOD Water Supply Scheme at Nabisar for Thar Coal Power Project" approved by Planning & Development Department Karachi, following officers are nominated.

S.No.	Designations	Committee/ Designations
1.	Superintending Engineer, Thar Coal Water Works Circle, Mirpurkhas	Chairman
2.	Representative Finance Department	Member
3.	Representative Planning and Development Department	Member
4.	Executive Engineer, Thar Coal Water Works Division, Mirpurkhas	Member/Secretar
5.	Divisional Accounts Officer, Thar Coal Water Works Division, Mirpurkhas	Member

An early in this regard is solicited.

JAWED AHMED MEMON PROJECT DIRECTOR

Thar Coal Water Works
(a) Mirpurkhas

Copy forwarded to the Superintending Engineer Thar Coal Water Works Circle Mirpurkhas for information.

Copy forwarded to the Executive Engineer Thar Coal Water Works Division Mirpurkhas for information.

JAWED AHMED MEMÓN PROJECT DIRECTOR Thar Coal Water Works

a Mirpurkhas

OFFICE OF THE SUPERINTENDING ENGINEER THAR COAL WATER WORKS CIRCLE MIRPURKHAS

NO.SE/TCWWC/Asstt/MPS/4/6 Of 2016, MIRPURKHAS DATED 2 3 /08/2016.

TO

Executive Engineer Thar Coal Water Works Division Mirpurkhas.

SUBJECT:- REQUEST FOR HIRING CONSULTANCY SERVICE FOR THE ADP SCHEME "CONSTRUCTION OF PRE-TREATMENT SYSTEM FOR RO PLANT LBOD WATER SUPPLY SCHEME AT NABISAR FOR THAR COAL POWER PROJECT".

Reference:- your office letter No.SC/G-148/347 dated 12-08-2016.

The draft NIQ along with TOR for the above subjected scheme received under your office letter cited above is returned herewith duly approved.

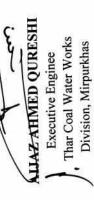
You are directed to please take further action as per SPPRA Rules.

Superintending Engineer
Thar Coal Water Works Circle
Mirpurkhas

Guidelines / Regulation for Procurement of Works (Annexure A-I)

PROCUREMENT PLAN (DEVELOPMENT / Capital) HIRING CONSULTANTS (Annexure-A)

Anticipated Anticipated / Actual Date of Date of Start Composition	_	11/2017		
Anticipated / Actual Date of Start	~	10/2016		
Anticipated / Actual Date of Advertisement	-	27-08-2016		
Nature of Method of Procurement Procurement	(6 4511 5	1.SPPRA 2.News Paper 3. Notices		
Nature of Procurement	ч	Standard		
Funds for New Work (c-e)	В	55.110 M		
Cost of New work (components)	f	1113.248 M		
Funds earmarked for ongoing works	ə	All BHS		
Cost of ongoing works (Expenditure already incurred)	ъ	Ĭ		
Allocated	υ	1168.358 M		
Serial No/ADP & Estimated Cost No*	q	Construction of Pre-Treatment System For RO Plant LBOD Water Supply Scheme at Nabisar for Thar Coal Power Project		
Serial No/ADP No*	ю	2231 A		



SINDH PUBLIC PROCUREMENT REGULATORY AUTHORITY

RRIGATION DEPARTMENT



GOVERNMENT OF SINDH INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR

ACQUIRING CONSULTANCY SERVICES FOR CONSTRUCTION OF PRE-TREATMENT SYSTEM FOR RO PLANT LBOD WATER SUPPLY SCHEME AT NABISAR FOR THAR COAL POWER PROJECT".

WORKS DIVISION MIRPURKHAS.

AUGUST 2016

Documents issued to M/s

Price Rs.3000/-

Non Refundable

THAR COAL WATER WORKS DIVISION MIRPURKHAS. PART-I INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR SELECTION OF CIVIL ENGINEERING CONSULTANTS.

Name of Project:- ACQUIRING CONSULTANCY SERVICES FOR CONSTRUCTION
OF PRE-TREATMENT SYSTEM FOR RO PLANT LBOD WATER
SUPPLY SCHEME AT NABISAR FOR THAR COAL POWER
PROJECT".

A- INFORMATION TO CONSULTANTSING FIRMS / JOINT VENTURE / CONSORTIUM.

Introduction
Project:-

A 660 MW Power Plant is being set up by EngroPowergenThar Limited in Thar Block-2. To meet the cooling requirements of the power plant, water treatment and storage scheme is being developed on LBOD (Left Bank Outfall Drain). As part of the water treatment scheme, Pak Oasis has already set up a 35 cusec (permeate basis) desalination RO Plant in Nabisar. TDS of product water from this RO Plant will be around 500 ppm. LBOD water cannot be directly fed to the RO Plant without a proper pre-treatment system. The RO Plant input water requirements and LBOD raw water quality is compared below.

	LBOD Water Quality		put Water rement
Silt Density Index	Infinity	5	3 3 5 5 V
Chemical Oxygen Demand (C)OD)	350 – 400 ppm	< 20 p	ppm
Biological Oxygen Demand (BOD)	150 – 200 ppm	< 5 pp	om ,
Total Suspended Solids	20 - 50 ppm	< 5 pp	m

- SDI and TSS indicate the presence of suspended particles in water.
- Higher than recommended SDI and TSS will result in excessive pressure drop and serious damage to RO membranes.
- Whereas, higher than recommended COD and BOD will result in excessive bio fouling of RO membranes, also causing serious damage.

Particularly in the months Nov to Feb the water quality of LBOD is highly contaminated and could not directly fed to RO plant without pre-treatment system. Similarly the suspended particles in high discharges will also affect the waterfed to RO plant.

The treatment system is proposed for 7932 M3/Hri.e 79 cusecs.

Status of Schemes:	The 2% consultancy cost of scheme amounting Rs.40.000 Million
Schemes: Scope of Consultancy	Project Director Thar Coal Water Works Project @ Mirpurkhas Irrigation Department intend to appoin the Consultants for: Construction of Pre-Treatment System for RO Plant LBOD Water Supply Scheme at Nabisar For Thar Coal Power Project

The consultant shall perform the following tasks: Phase I: Detailed Design and Tender Documents

1. Master Plan

To determine the space needed for above project in view of the enrollment / Capacity evolution within the coming years and prepare a Master Plan including spatial orientation of the project site and necessary utilities.

2. Detailed Design of the project

The Consultant shall prepare the following documents taking into consideration the local specifications of the country where the project is located:

- 1.1 Detailed Design of pre-treatment system
- 1.2 Detailed architectural drawing
- 1.3 Detailed structural drawings
- 1.4 Detailed electrical drawings
- 1.5 Detailed mechanical drawings
- 1.6 Technical specifications
- 1.7 Bill of quantities for each component
- 1.8 Detailed list of equipment for the project
- 1.9 Any other document necessary for the tender process & construction permit

Note: - • Drawings should include Design / Working drawings • The Consultant shall conduct soil test on the site to determine its bearing capacities prior to carrying out the structural design of the project.

3. Tendering and Award of Contract

- 3.1 The consultant shall submit, the notice to invite for competitive bidders to be advertised in newspaper which should contain essential information about the project and also process the advertisement in coordination with the Beneficiary.
- 3.2 The Consultant shall advise the Beneficiary during the tender opening and evaluation. Upon receipt of tenders, the Consultant shall guide the evaluation committee during evaluation of the tender's in accordance with the accepted rules for procurement of works and shall prepare a draft tender analysis report to the Beneficiary with recommendation for the eligible Contractor(s) from the technical and financial point of view.
 - 3.3 After the approval of the Contractor(s) selection, the consultant shall

prepare and facilitate the contract agreement to be signed between the competitive bidder and the beneficiary as per the specified agreed conditions.

4 Environmental Impact:

The Consultant should assess the environmental impact on the project and consider the following during the design & Supervision Phases:-

- Existing baseline environmental conditions.

- Potential environmental impacts both direct and indirect.
- Including opportunities for environmental enhancement.
- Design proposals to protect the environment.

Phase II: Project Supervision

1. Site Handover and Preparation of working drawings

- 1.1 The consultant shall issue handover notice of the site to the Contractor(s) as per the general conditions of contract in coordination with the beneficiary.
- 1.2. Preparation of working drawings for all components.
- 1.3 Checking and approval of the Contractor(s)' shop drawings.
- 1.4 Mark-out the buildings within the site as per the Master Plan.

2. Review of Contractor(s)' Implementation Schedule

2.1 The Contractor(s)' proposed implementation schedule shall be reviewed thoroughly by the Consultant. Interrelations between the various activities shall be carefully reviewed particularly with respect to time allocation, commencement and completion dates. At the end of this procedure, an agreed implementation schedule should be provided by the contractor(s) to the satisfaction of all parties.

3. Supervision of Construction Works

- 3.1 The Consultant should provide the necessary supervisory staff to be employed during the period of implementation in executive and supervisory capacities in respect of the construction contracts. The Consultant will be delegated with all normal duties and powers of the "Engineer" for the implementation of the project.
- 3.2 It will be the responsibility of the Consultant to supervise all operations on behalf of the Beneficiary and to ensure that the work of the Contractor(s) carried out in a proper workmanship and expeditious manner and in accordance with the contract documents.
- 3.3 The Consultant will check, approve, reject and record, as the case may be, inter alia, the following:
 - Contractor(s)' construction plant and equipment
 - · Materials of construction
 - Concrete testing, procedures and results
 - Construction of site works: concrete structures, steel structures, finishings, mechanical & electrical works and other utilities as required.
- 3.4 Review and approve all methods proposed by the Contractor(s) for permanent and temporary works, formwork, etc. to ensure conformity with construction contracts and that the work can be carried out safely and in accordance with recognized and accepted practices.

4. Issue of Instructions to the Contractor(s)

- 4.1 These services will relate to the fulfillment of the contractor(s)' duties from drawing up and approval of the work program till the completion of works. The services will include issuing field instructions in writing as required relating to:
 - . Quality of materials used in the works.
 - ♣ Equipment and methods of construction
 - Supervision, checking and testing of works carried out.
 - . Clarification of drawings and specifications.
 - * Progress of works to ensure that the work program is adhered to.
- 4.2 The Consultant shall not give any instructions which in his opinion are likely to increase the cost of works without the prior approval of the Beneficiary.

5. Advice to the Beneficiary on Progress Of Works

5.1 It is of utmost importance that the progress of the Works be in accordance with the programmed implementation schedule since the timely implementation of the project necessitates the strict adherence to the approved timetable. The Consultant will keep the Beneficiary advised continuously as to work progress. If any deviation from the implementation schedule occurs, the Consultant will inform the Beneficiary about the necessary measures to be taken to avoid dalliance of the project.

6. Inspection and Testing of Works

- 6.1 At all stages of implementation, the consultant shall carry out regular inspection of materials and workmanship and acceptance tests on his own cost to ensure compliance with the specifications. Where work on site at any time during the implementation does not meet the requirements of the specifications, it shall be removed or rectified.
- 6.2 Carry out inspection at time of substantial completion of the works and arrange, for issue of the Initial Hand-Over Certificate in coordination with the Beneficiary.
- 6.3 Undertake periodic inspections during the Defects Liability Period and notify the Beneficiary and Contractor of any defect on the construction works, and supervising their repair. Following the expiry of the Defects Liability period, arrange for issuing the Final Hand-Over Certificate in coordination with the Beneficiary.

7. Approval of Payment Certificates

- 7.1 The consultant shall, in parallel with the Contractor(s), make field measurements of all works done, which will be required for checking and certifying the Contractor(s)' Invoices assuring quality as per specifications and quantity.
- 7.2 Certify all of the Contractor(s)' monthly statement and final statement within the time specified in the contract and forward to the Beneficiary for arranging payment.
- 7.3 The Consultant shall, during the course of works, keep accurate records of all dates and quantities of work carried out, all payments made to the Contractor(s), and all materials and equipment supplied to the site.

8. Reporting / Meeting

- 8.1 The Consultant will keep the Beneficiary continually informed on the progress of the works, and all budgetary and financial matters pertaining to the project, by submitting to him the following reports:
 - ♣ Monthly progress reports including: information on measurements of works executed, equipment and material supplied to site, used and/or stored quality tests on earthworks, concrete works, construction materials and equipment labor force variation orders if any payments made to the Contractor(s) acceptance tests of structures problems encountered and recommendation made by the consultant photographs recording the progress of work.
 - ♣ Final report on completion of works and/or Consultants' assignment. The consultant will prepare and advice on the issue of the Initial and Final Hand-Over Certificates.
- 8.2 Arrange site meetings with Contractor(s) at regular intervals to discuss progress and quality of works, and resolve any pertaining problem.
- 8.3 The Consultant shall issue Variation order and claims for extension of time or any change in works according to the contract after obtaining the approval of the Beneficiary. The Consultant shall also monitor the contract costs relative to the Beneficiary's budgetary provisions.

9. Delivery to the Beneficiary "As Built" Drawings

9.1 The Consultant shall at the completion of the project, provide the Beneficiary, free of charge, a full copy of the as-built drawings which are recording any

changes in the original work de	rawings.
Name of Location of the Project:	District Umerkot
Source of Funding :	APD 2016-2017 & 2017-2018
	The EOI's shall be evaluated by the evaluation committee framing by the competent authority.

SCORING TABLE

Name of Firm:

Evaluation Criteria for Pre-Qualification

na ^{FE}		Weight	as under Weighting (Points		
	Sub Factor	Max	Obtain		
a)	Average Annual Income from Contracting (Last 3 Years)	- 12. 2			
4.3					
- P	Ration of V/T		11.5		
	Less than 1.5 V/T.	0.	41.5		
E	Between 1.5 V/T and 2 V/T	2			
	Between 2 V/T and 2.5 V/T	4			
	Between 2.5 V/T and 3 V/T	6	Section 19		
	Between 3 V/T and 4 V/T	8	1 2 2		
9	Over 4 V/T	10			
24					
b)	Bid Capacity		74 y 4		
	Ratio B.C/V	And .			
	Tallo Diori	10.30			
	Less than 0.2	0			
	Between 0.2 and 0.4	2			
	Between 0.4 and 0.6	4			
	Between 0.6 and 0.8	4			
7 3	Between 0.8 and 1.0	6			
	Above 1.0	8			
		10			
c)	Available Credit Line (C.L)				
٠,	(Reputable Bank)	10			
	(Acopamoto Dank)				
	Ratio C/L/V	A			
Sen	Less Than 0.1				
2.5	Between 0.1 and 0.15	0			
7	*Between 0.15 and 0.20	4	13 = 1 2		
1 .	Between 5.20 and 0.30	6	-Variation 10		
23	Above 0.30	. 8	25		
		10			
			- F		
	Maximum Points	30	1.		

SCORING TABLE

Name of Firm:

Disting	Critaria (or Dra O	ualification
Evaluation	Cilicia	OF FIG-O	uaillication

2. Technical Capability	Weight	ing (Points
Sub Factor	Max	Obtain
a) Site Management	IVAGA	- Dumin
i) Project Organization and Management	0	
Inadequate:	2	
Marginal: Some basic site/ Project management	3	
Satisfactory: Boarder Site/ Project Management up		
ii) Sub-Contracting (Number and Partner)	0	
Inadequate: with no legal documents	2	8
Marginal: At least on sub0contracting in relevant w	3	
Appropriate: More than on Sub-contracting in relevant work	6	Mar.
Maximum Composite Score (i)+(ii)	-	
 Key Technical Personnel & Project Manager Competence and Qualification 	0.7	
다른 경기 하늘이 다시하는 것 같아 내가 되었다. 그렇게 하면 그리고 얼마 되었다. 그리고 있다.	1 1 1 1	- 3
i) Key Technical Personnel	1 47	
Inadequate: with no engineering personnel	0	
Marginal: at least 3-4 years experienced surveyor	2	
Satisfactory: at least one professional Civil Engineer (PEC)	4	
Registered: having more than one year experience	6	
Superior: at least two professional Civil Engineer (PEC)	8	3
Registered: having more than two year experience	10	
ii) Project Management		
Inadequate:		
Marginal:		1 1 2 2
Experience:		
Satisfactory:	1 1 141	
Experience:		f faria.
Superior:	1 × 1	
Experience		10 100 100
Maximum Composite Score (i)+(ii)	a la	
c) Plant and Equipment		
Availability and Source of Major Items	4 60	5 9 7
Unsatisfactory:	1.5	
Marginal:	0	
Machines	. 13	the state of
Satisfactory:	6	4 1 1
Machines		
Firm arrangement/Source:	9	
The state of the s	12	
Maximum Points	12	

Maximum Points Possible 30 Minimum Score Required 18

S No	Categories	Sub-Factor	Max: Points	Min: Points	Points Score	Remarks Pass/ Fail
1	Financial Capacity				350.5	A HOUSE A HILL
1.1						
9.		Total				
9		Total				
2	Technical Capability					
. 1	a) Site Management					
				21	34	
						10
1		Sub Total	1.50			
	b) Key Technical Personnel & Project Management					
	Competence and Qualification			la t		13.2
	X				1 2:1:	Me.
		Sub Total			100	
	c) Plant and Equipment Availability and				2	-AM
18	source of Major Items			124		
					0.00	
•						
i		Sub Total	Total I			
	1.0	Total	-			-

DETAILS OF PRE-QUALIFICATION EVALUATION

Name of Firm:

S No	Categories	Sub-Factor	Max: Points	Min: Points	Points Score	Remarks
3	Experience		ronts	romis	Score	Pass/ Fail
	Calif. Service and Calif.			40000	F 1 2 0	
	Sub Factors			200	- All 1	
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Conclusion	Overall Minimum Score for Qualification	Total Points	Remarks
	60		