CATION DOCUMENT REQU



Name of Department: IR	RIGATION DEPARTMENT
Name of Project/Scheme:	Restoration / Rehabilitation of LBOD and Kot Drainage Network System including activation of Dhoras Phase-II
Name of Procuring Agency:	Executive Engineer, Drainage Division, Badin
Document issued to:	M/S
Pay Order No. & Amount:	

1.0 Introduction

The basic aim of the pre-qualification is intended to eliminate, early in procurement proceedings, constructors that are not suitably qualified to perform the contract. The pre-qualification specifically means selection of competent bidders prior to issuance of the invitations to bid. It is required for large and complex civil works contracts, turnkey contracts, and contracts for the fabrication of expensive and technically complex plant and equipment. This is to ensure that only firms with appropriate experience, a proven track record, and necessary annual turnover and that, can provide all the equipment required in a timely manner and will be only invited to submit bids. Thus assessment by an implementing agency of the suitability of firms to carry out a particular contract prior to being invited to submit a bid is a process called prequalification.

2.0 Sindh Public Procurement Rules 2010

When and how to engage in the pre-qualification process, is clearly explained in SPP Rules 27 & 28 2010 and same may be referred for further guidance.

3.0 The Prequalification Process

3.1 Advertisement and Notification

The Invitation for Prequalification (IFP)/Pre-qualification notice shall be advertised in the manner explained in the SPP Rules 15, 17 & 18 of 2010.

3.2 Preparing and Issuing of Prequalification Document

The Procuring Agency is responsible for preparing and issuing the Prequalification Document to all interested bidders. All information and data particular to each individual prequalification process must be provided by the agency in the following sections of the Prequalification Document:

- 4.0 Section I. Instructions to Bidders (ITB);
- 5.0 Section II. Eligibility & Evaluation/Qualification Criteria;
- 6.0 Section III. Application Forms;
- 7.0 Section IV. Scope of Contract





OFFICE OF THE EXECUTIVE ENGINEER DRAINAGE DIVISION, BADIN

E-mail: drainagedivisionbadin@gmail.com

Off: No. 022-9210347

No. TC/ G-55/DD/ 560

of 2015

Badin, Dated: 11 / 02 / 2015

NOTICE INVITING PREQUALIFICATION OF CONTRACTORS

Applications are invited for prequalification of contractors / Firms works which will be executed under ADP No. 1005, Restoration / Rehabilitation of LBOD and Kotri Drainage Network System including activation of Dhoras.

Firm, company which should be registered with Pakistan Engineering Council in category C-3 and above as well as registered with Sindh Board of Revenue (SBR).

The interested person, firm, company are required to supply following particulars / copies of documents duly attested along with brochure / application for prequalification so as to receive in the office of the undersigned on or before **04.03.2015** along with pay order of Rs. 1000/- (Non refundable) for prequalification documents in favour of undersigned.

- Registration with Pakistan Engineering Council current financial year as well Sindh Board of Revenue (SBR).
- Bio-Data of engineers and other technical staff employed by the Firm /
- Completion certificate of the works carried out by the applicants from the concerned Executive Engineers.
- Copies of the work orders of the ongoing works, if in hand.
- 5) The list of available machinery with documentary evidence of ownership.
- 6) Working capitals in hand for work (attach proof of Bank Statement / Credit facilities).
- 7) In cases of joint venture firm, company or an organization applying for the prequalification, the details of the partners / partnership deed with powers of attorney should be provided.
- Annual Income Tax Certificate for the financial year 2013-14 along with National Tax Number (NTN).
- Affidavit stating that the firm / company is not black listed in any Government Department.
- 10) No application will be entertained, if received after the date specified above.

EXECUTIVE ENGINEER
DRAINAGE DIVISION
BADIN

40 Section I. Instructions to Bidders/Applicants (ITB).

- Clause 1 The firm/contractor shall enclose the (one original and —— copies) of the documents in a sealed envelope which shall:-
 - (a) bear the name and address of the Applicant;
 - (b) be delivered by hand or through courier/registered mail to address mentioned in advertisement for pre-qualification or in document; and
 - (c) be clearly marked "Application for Pre-qualification for
 - 1. Restoration / Rehabilitation of LBOD and Kotri Drainage Network System including activation of Dhoras Phase-II
- Clause 2 If the envelope is not sealed and marked as required, the procuring agency will assume no responsibility for the misplacement or pre-maturing opening of the document.
- Clause 3 Document shall be prepared in the English language. In case of ICB, the information provided in any other language shall be accompanied by English translation also.
- Clause 4 Firm/Contractor must respond to all questions and provide complete information as advised in this document. Any lapses to provide essential information may result in dis-qualification of the firm/contractor.
- Clause 5 Clarification and Modification of Documents (SPP Rule 23).
 - Firm/Contractor, who has obtained documents, may request for clarification of contents of the bidding document in writing, and respond to such queries shall be made in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of bid
- Clause 6 Addendum: At any time prior to the deadline for submission of documents, the agency may amend the Prequalification Document by issuing addenda. Any addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all who have obtained the prequalification document.
- Clause 7 Deadline for submission of Documents (SPP Rule 22 & 24): Documents shall be received by the agency at the address Executive Engineer, Drainage Division, Badin Camp Office Barrage Colony (Officers Colony) Hyderabad Phone No. 0229210347, not later than the 04th March, 2015 before 5:00 PM. The procuring agency may, at its discretion, extend the deadline for the submission of documents by amending the Prequalification Document, and in which case all rights and obligations of the Agency and the firms/contractors subject to the previous deadline shall thereafter be subject to the deadline as extended.

Sindh Public Procurement Regulatory Authority



- Clause 8 Evaluation (Rule 27 (2): Firm's/Contractor's general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the Applicant's responses in the prescribed forms will be evaluated as per evaluation criteria given in the document. The Procuring Agency 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 firm/contractor compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture.
- Clause 9 Clarification of Prequalification Information (Rule 43): To assist in the evaluation of information, the agency may, at its discretion, ask any firm/contractor for a clarification of any information which shall be submitted within a stated reasonable period of time. Any request for clarification shall be in writing. If any firm/contractor does not provide clarifications of the information requested by the date and time set in the agency's request for clarification then application of the firm/contractor may be rejected.
- Clause 10 Verification of Prequalification Information (Rule 28 (Id)): Verification of the information provided by the pre-qualified/shortlisted firms/contractors in the submissions for prequalification may be made. In case the information is found to be wrong or incorrect in any material way or firm/contractor is found to be lacking in the capability or resources to successfully perform the contract, then it shall not be pre-qualified.

50 Section II: Evaluation/Qualification Criteria.

In this section two evaluation criteria are being given for the benefit of the procuring agency. One is based on marks/score and the other is based on pass/fail criteria. Procuring agency may adopt any one of these selection methods while prequalifying the contractors/firms.

Criteria based on Marks/Score.

Company Profile

Mandatory Provisions/Eligibility: Firms/Contractors must possess (i) valid registration certificate of PEC in the category C-3 or above and in CE02/ CE02 discipline for 2013-14 year; (ii) valid registration certificate from income tax authority (NTN); and (iii) is not black listed. (Attach all certificates and affidavit of not black listing).

Aggregate Qualifying Score is 60%, but it is mandatory to obtain at least 30% in each of the following sections.

C.	mbana troug.	
i	Period since Firm/Contractor is in construction business	10 Marks
	Up to 5 years	02 Marks
	Up to 10 years	05 Marks
	Above 10 years	10 Marks
	(Attach PEC license for each year)	TO PARILO
ï	Office facilities	05 Marks
	In Sindh province	03 Marks
	In any other province/Islamabad	01 Marks
	Outside Country	01 Marks
Gen	eral Experience Record	
i		35 Marks 20 Marks
	-	20 Marks
	(4 Marks for each project)	
	(Attach satisfactory completion certificates)	
. i	Projects of similar nature and complexity in hand	16 3.4-1
	(5) (ada 6	15 Marks
٠	(Attach copies of work orders)	
	i Gen	Up to 5 years Up to 10 years Above 10 years (Attach PEC license for each year) i Office facilities In Sindh province In any other province/Islamabad Outside Country General Experience Record i Projects of similar nature and complexity completed over last 05 years. (4 Marks for each project) (Attach satisfactory completion certificates) i Projects of similar nature and complexity in hand. (5 Marks for each project having cost — Million or above).

Personnel Capabilities required for this project

20 Marks

Requirement of persons will vary from Project to Project.

Following factors may be used as a guideline:

Sr. No.	Description/Position with qualification & experience	Number Required	Marks assigned	Remarks
1.	BSc (Civil Engg.) /BE(Civil) Engineers registered with Pakistan	2 Nos.	10	03 Marks for experience of 5 t 10 years. 05 Marks for above
	Engineering Council (PEC) with experience of 5 years or above.			10 years, (Attach Tax payment challans showing at least year
				continuous employment with firm. 1 additional Mark for MSo
2.	Diploma in Civil Engineering, with	04	10	(Civil Engg:)/M.E.(Civil) 02 Marks for 02 years
· 1	experience of 2years or above.			experience, 03 Marks for above 02 years.

(D) Equipment Capability

20 Marks

- Critical equipment and number required for the Project shall be specified by the (a) Procuring Agency. (b)
- High value equipment should be an option to own, lease or hire. (c)
- Total equipment available with the applicant is to be listed along with its current mobilization on on-going projects.

(Details are to be provided in the attached form)

Financial Soundness /Status **(E)**

10 Marks For Financial Status assessment, the Applicants may be required to submit Audited Financial Statements for the last five years or any other document which verifies their Financial Status. Where necessary, the Procuring Agency will make enquiries with the firm's/contractor's

Working Capital in hand for this project/work (Attach proof of Bank Statement/Credit

i. ii.	Less than 15% of Estimated Cost of this Work 16 - 25% of Estimated Cost of this Work 26 - 40% of Estimated Cost of this Work	02 Marks
		04 Marks
. 4	More than 40% of Estimated Cost of this Work	08 Marks 10 Marks



Evaluation/Qualification Criteria: Based on Yes/No or Pass/Fail system.

Mandatory Provisions/Eligibility: Firms/Contractors must possess (i) valid registration certificate of PEC in the category or above and in discipline for year, (ii) valid registration certificate from income tax authority (NTN); and (iii) is not black listed. (Attach all certificates and a fidavit of not black listing)

Required Documents: It must include following information/documents:-

- (A) Firm/Contractor have been in business of construction at least for 5 years.
- (B) Experience and past performance.
 - (1) Have completed Two (2) similar assignments having cost of the project in the last five (5) years.
 - (ii) Have executed at least one (1) project in similar geometrical concerns in last five (5) years.

(Attach performance certain ies of compared projects).

(C) Key Personnel Qualification & Experier

(Requirement will vary from a semment to a semment).

Site Engineers, Qualification, SE (Civil), Number: Two (2).

Experience: Two (2) similar assignments,

Seven (7) years experience.

Surv. ——Qualification: Diploma in Civil, Number: Four (4).

Experience: One (1) similar assignment,

Three (3) years experience.

(iii) Quantity Surveyor:

Diploma/Certificate Course in Drafting, One (1) Experience: Two (2) years

(Brief CVs of personnel be attached).

(D) Equipments:

- (d) Critical equipment and number required for the Project shall be specified by the Procuring Agency. For guidance procuring agency may refer to annexure-I.
- (b) High value equipment should be an option to own, lease or hire.
- (c) Total equipment available with the applicant is to be listed along with its current mobilization on on-going projects.

(Details are to be provided in the attached form)

Financial:

- Documentary evidence of financial position, bank statement or audited accounts of the **(1)** last Three (3) years.
- Average Annual turnover of the last three years should not be less than Thrice (ii) of work.

Any other information:

Any other document/information desired by pr iall not discriminate among contractors/firms.

Contractors/firms who fail to qualify in the above sections shall be disqualified from the prequalification process.

JALIFICATION	

60	Section III. Application Forms:	
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AI Application Submission Form (The covering letter is to be submitted by the interested firm/contract or partner responsible for a joint venture, on appropriate company letterhead)

лņ	n/contract or partner responsible	e jor a joini venture, o	on appropriate con	pany letterhead)	
				Date:	<u> </u>
То	Executive Engineer	•	- :		
	Drainage Division,				
	Badin, Camp Office @ Left	Bank Barrage			•
	Colony Officers Colony, Hyo	derabad		·	
D∻ar Sir,			·		
Subject:	PRE-OUALIFICATION OF	E CONTRACTORS	FOR ADP SCHE	ИЕ 2014-15	
	(Package -wise list Atta			2007, 20	
of	I applies to be prequether with ——copies) of pre-qu	ualified for the proje	ect cited above an	d enclose one (1) origin	on behal al
(a)					
. 149	I have examined and have				ıg
45	Addenda No(s)				
(b)	I understand that Procuring	g Agency may cano	cel the prequalific	ation process at any tim	ne and tha
	Procuring Agency is not be	ound either to accep	t any application	hat it may receive or to	invite the
	prequalified applicants to	bid for the contrac	t subject of this	orequalification, withou	it incurring
	any liability to the Applican				
(c)	Bids by prequalified application	cants will be subje	ct to verification	of all information sub-	mitted for
	prequalification at the time of			or all information suc	ATTICLE TO
(d)					
(4)	Agency reserves the right to				
	event bids will only be ca	lled from prequali	fied bidders who	meet the revised requi	irements;
2	The Procuring Agency and its for further information, if need	s authorized represented;	ntative(s) may cont	act the following person(s)
	Person to be contacted:		Telephone:		
3	The undersigned declares that t	the statements and the	information provi	led are complete true on	d correct
-	in every detail.		·	ace are complete, true, ar	u coneci
				. .	
• -	Signed:		Name:		

DETAILS OF PACKAGES OF NEW ADP SCHEME IN DRAINAGE DIVISION, BADIN

S. No.	
	Name of Work
1	RESTORATION OF DHORO PURAN FROM RD. 0.0 TO 13.0 IP SIDE AND (03 NO.) INLETS ALONG DHORO PURAN (WHERE NECESSARY)
2	RESTORATION OF DHORO PURAN FROM RD. 13.0 TO 25+500 IP SIDE & (03 NO.) INLETS ALONG DHORO PURAN (WHERE NECESSARY)
3	RESTORATION OF DHORO PURAN FROM RD. 25+500 TO 38+00 IP SIDE & (03 NO.) INLETS ALONG DHORO PURAN (WHERE NECESSARY)
4	RESTORATION OF DHORO PURAN FROM RD. 38.0 TO 46.0 IP SIDE & (03 NO.) INLETS ALONG DHORO PURAN (WHERE NECESSARY)
5	RESTORATION OF DHORO PURAN FROM RD. 46.0 TO 55.0 IP SIDE & (03 NO.) INLETS ALONG DHORO PURAN (WHERE NECESSARY)
6	RESTORATION OF DHORO /CONSTRUCTION OF PROPOSED DRAIN PARALLEL TO SPINAL FROM RD. 211.0 TO 221.50 & (02 NO.) INLETS ALONG SPINAL (WHERE NECESSARY)
7	RESTORATION OF DHORO /CONSTRUCTION OF PROPOSED DRAIN PARALLEL TO SPINAL FROM RD. 221.50 TO 232.50 & (02 NO.) INLETS ALONG SPINAL (WHERE NECESSARY)
8	RESTORATION OF DHORO-/CONSTRUCTION OF PROPOSED DRAIN PARALLEL TO SPINAL FROM RD. 232.50 TO 243.00 & (02 NO.) INLETS ALONG SPINAL (WHERE NECESSARY)
9	RESTORATION OF DHORO /CONSTRUCTION OF PROPOSED DRAIN PARALLEL TO SPINAL FROM RD. 243 TO 254 & (02 NO.) INLETS ALONG SPINAL (WHERE NECESSARY)
10	RESTORATION OF DHORO /CONSTRUCTION OF PROPOSED DRAIN PARALLEL TO SPINAL FROM RD. 254.00 TO 262.00 & RD. 275.00 to 278
11	RESTORATION OF DPOD FROM RD. 5.0 TO 22.0 NIP SIDE & (02 NO.) INLETS ALONG DPOD (WHERE NECESSARY)
12	RESTORATION OF DPOD FROM RD. 22.0 TO 40.0 NIP SIDE & (02 NO.) INLETS ALONG DPOD (WHERE NECESSARY)
13	RESTORATION OF DPOD FROM RD. 40 to 59 NIP SIDE & (2 NO.) INLETS ALONG DPOD (WHERE NECESSARY)

Executive Engineer Drainage Division Badin

S. No.	Name of Work
14	RESTORATION OF DPOD FROM RD. 70 to 90 NIP SIDE & (2 NO.) INLETS ALONG DPOD (WHERE NECESSARY)
15	RESTORATION OF DPOD FROM RD. 90 to 110 NIP SIDE & (01 NO.) INLETS ALONG DPOD (WHERE NECESSARY)
16	CONSTRUCTION OF (08 NO.) INLETS ALONG (HAKRO) DHORO FROM RD. 0.0 TO 30 (WHERE EVER NECESSARY)
17	CONSTRUCTION OF VILLAGE ROAD BRIDGE ALONG PROPOSED DRAIN PARALLEL AT RD. 245
18	CONSTRUCTION OF VILLAGE ROAD BRIDGE ALONG PROPOSED DRAIN PARALLEL AT RD. 277
19	CONSTRUCTION OF VILLAGE ROAD BRIDGE ALONG PROPOSED DRAIN PARALLEL AT RD. 224
20	CONSTRUCTION OF (01 NO.) WATER COURSE CROSSING ALONG PROPOSED DHORO PARALLEL TO LBOD DRAIN DRAIN AT RD. 236.
21	CONSTRUCTION OF (01 NO.) WATER COURSE CROSSING ALONG PROPOSED DHORO PARALLEL TO LBOD DRAIN DRAIN AT RD. 250
22	CONSTRUCTION OF (02 NO.) WATER COURSE CROSSING ALONG PROPOSED DHORO PARALLEL TO LBOD DRAIN DRAIN AT RD. 242 & RD. 245
23	CONSTRUCTION OF OUTFALL ALONG DHORO PURAN / PROPOSED DRAIN PARALLEL AT RD. 211
. 24	CONSTRUCTION OF UNDERPASS AT RD. 277 ALONG DHORO PARALLEL TO LBOD

EXECUTIVE ENGINEER DRAINAGE DIVISION BADIN

PREDITATIONS	ON DOCUMENT
PREQUALIFICATI	UN DUCHMENT

A-II

3	Ca	T
<i>3.</i> •	Company	Profile

Date:	

All individual firms and each partner of a joint venture applying for prequalification are requested to complete the information in this form.

	
1.	Name of firm (legal):
	(In case of Joint Venture (JV), legal name of each partner:
	Nature of Business:
2.	(Whether the firm is a Corporation, Partnership, Trust etc.) (In case of Consortium; whether the Lead Consortium Member is a Corporation, Partnership, Trust etc.)
3.	Head Office Address:
4.	Telephone Fax numbers: E-mail address:
5.	Place of Incorporation/Registration: Year of incorporation/registration:
. •	Applicant's authorized representative:
6.	Telephone Fax numbers: E-mail address:
7	NATIONALITY OF OWNERS.
	Name: Country:
	3. 4. 5.

A-III

2. General Experience Record

(i) Details of Contracts of Similar Nature and Complexity completed over the last 05 years

Sr. No.	1	2	3	4	
				4	5
Name of Con-		1			1
Name of Contract:					
_	-	*	1		
Country:		<i>,</i> •		1.	
•				1	
	 		<u> </u>		
Name of Procuring	[]	•			
Agency With					
Address, Tele, Fax.					
Vature of works	·		1		
nd special features	· .		-	 	
elevant to the		•			j ·,
ontract for which					
pplied:	<u> </u>				,
Contract Role Mention: Sole, Sub			<u> </u>	 	· -
ontactor or					
artner in a Joint		· ` . · 	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	ļ
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ntract in Pak/Rs:		í		,	
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te of Award:	1	1	, ,	•	
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e of Completion			-		
1		· · · · · · · · · · · · · · · · · · ·	1		_ [
			. 4.		, '

(ii) Projects of similar nature and complexity in hand.

Firms/ Contractors and each partner of the joint venture should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, for which Completion Certificate has yet to be issued.

Name of Contract	Value of Contract	Name of Procuring Agency	Value of Outstanding work (Equivalent Pak Rs. Millions)	Estimated Completion Date
1.				
2.				
3.				

(iii) Projects executed in similar geographical conditions in last five (5) years.

Sr. No.	1	12			<u></u>
		2	-3	4	5
Name of Contract:					
Country & location					
Name of Procuring Agency With Address, Tele, Fax.			 		
Nature of works and special features relevant to the contract for which applied:					
Contract Role (Mention: Sole, Sub Contactor or Partner in a Joint Venture).					
alue of the total contract Pak/Rs					
ate of Award:					
te of Completion					

A-IV

4 (A) Personnel Capabilities

Firm/Contractor should provide the names of suitably qualified personnel to meet the specified requirements stated in Section 3 (Evaluation and Qualification Criteria).

Sr. No.	Title of Position	Name
1		
2		
3		
4		
5.		

A-V

The data regarding experience of the personnel mentioned at A-IV should be supplied separately using the Form below.

		4(B) Curriculum Vitae (CV) for Proposed Experts	
Proposed	Position:		
Name of Ex	kpert:		_
Name of Fi	rm:		<u> </u>
			
Current Res	idential A	Address:	-
Telephone N	lo:	Fax No:	
			
Qualification	t: 1:	Citizenship:	-
Nork Experie	ence: Sum	nmarize professional experience in reverse chronological order.	
ndicate partic	ular techn	nical and managerial experience relevant to the project.	٠.
From	То	Company / Project / Position / Relevant technical and manage	
From	То	Company / Project / Position / Relevant technical and manage experience	gemen
From	То	Company / Project / Position / Relevant technical and manage experience	gemen
From	То	Company / Project / Position / Relevant technical and manage experience	gemen
From	То	Company / Project / Position / Relevant technical and managexperience	gemen
From	То	Company / Project / Position / Relevant technical and manage experience	gemen

A-VI

- 5. Firm/Contractor shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment whether owned/ leased/ rented listed in Section 3 (Evaluation and Qualification Criteria).
- A. Equipment Capabilities (owned by the contractor/firm)

Sr. No.	Name of Equipment	Name of manufacturer	Model and power rating	Capacity	Year of manufacture	Current location
1						
2						
. 3		··				
4					-	
5						
6						
7						
8				• • • • • • • • • • • • • • • • • • • •	·	
- 9-						
10	•					

Equipment Capabilities (leased/ rented by the contractor/firm) В.

Sr. No.			Name of Address of owner		Contact name and title with Telephone Fax & E Mail of the owner	Agreements Details of rental / lease / manufacture agreements specific to the project
1						
2						
3				,	_	
4						
5						
6						
7						
8						
9						
10				-	-	

A-VII

- 6. Financial Resources.
 - A. Banker's Information:

Sr. NO.	Name & Bank	Address of	Contact name and title	Telephone, Fax & E- Mail Address
:				

B. Financial Status: Summarize actual assets and liabilities in Pak Rupees for the previous three years.

Information from Balance Sheet/	Year 1:		Year 2:		Year 3	ŧ	
Income Statement		•					
1.Total Assets (TA)					-		
2.Total Liabilities (TL)]		
3. Current Assets (CA)			ų,	· <u>-</u>		,	
4. Current Liabilities (CL)				_ 		- -	
5.Total Revenues (TR)			,				
6.Profits Before Taxes (PBT)			<u> </u>				
7. Profits After Taxes (PAT)							· · ·

Source of Financing: Contractor/ Firm shall provide documentary evidence for funding the project for which prequalification is being undertaken. C.

Section IV. Scope of Contract: (Description of works and period of Completion)

Annexure-I

(Procuring agency may opt types of equipments and their number as per requirement of project. It may also add any equipment as per requirement.)

- (i) Earth moving Machinery (Grader, Bulldozer, Excavator, Roller etc)
- (ii) Concrete Batching Plant (30cuM/hr Cap)
- (iii) Shuttering (form work) -- sq ft.
- (iv) Concrete Pump
- (v) Vibrator
- (vi) Dumper Trücks
- (vii) Shower/Loader/Backhoe
- (viii) Steel cutting & Bending Machine
- (ix) Concrete Transit Mixer (6 cuM/hr)
- (x) Scaffolding Pipe

Note: The following formula is applicable to evaluation criteria based on marks / score only.

a. If the available quantity of each equipment is less than specified limit, give weightage as under:

 $T = M \times (A / Required Quantity)$

b. If the available quantity of each equipment is more than the minimum equipment requirement full marks will be given.

A = Available quantity of each equipment of each item

T = Marks obtained

M = Marks assigned