



Bharat Heavy Electricals Limited

(A Govt. Of India Undertaking)

Power Sector, Eastern Region

BHEL BHAWAN, PLOT NO. DJ-9/1 , SECOTR II ,

SALT LAKE CITY , KOLKATA ,WEST BENGAL, INDIA

Phone : 033-23398220,033-23211690 FAX : 033-23211960

TENDER CHANGE NOTICE

Sub	TENDER CHANGE NOTICE: TCN-01 dtd. 03/05/2019
Job	“PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDARA VILLAGE, RAMPAL UPAZILA,BAGERHAT DISTRICT, BANGLADESH”.
Ref	TENDER NO.: PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019.

With reference to above, following clarifications, relevant to tender, may please be noted and complied with while submitting the offer.

- 1) Clarifications to bidders' queries are attached at [Annexure-Clarification](#).
- 2) Introduction of **Revised Clauses/Tender terms** as per attached [Annexure-A](#).
- 3) Introduction of **VOLUME-III: UNPRICED PRICE SCHEDULE(PRICED): REV-1** & **VOLUME-III: PRICE SCHEDULE(PRICED): REV-1** SUPERSEDING VOLUME-III: UNPRICED PRICE SCHEDULE(PRICED): REV-0 & VOLUME-III: PRICE SCHEDULE(PRICED): REV-0 RESPECTIVELY. **BIDDERS TO QUOTE THEIR OFFER IN LATEST PRICE SCHEDULE FORMAT ONLY.**
- 2) **BIDDERS TO QUOTE THEIR OFFER CONSIDERING THE LATEST SCOPE & PROVISIONS/TERMS AND CONDITIONS OF THE TENDER.**
- 3) Revised 'No deviation certificate' is attached. Bidder to submit their offer along with stamped & signed copy of this TCN & 'No deviation certificate' as per attached format only.
- 4) **All other terms & conditions shall remain unchanged.**

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD.

DGM (PURCHASE)

Encl: As above.

(Signature, date & seal of authorized representative of the contractor)

NO DEVIATION CERTIFICATE
(TO BE SUBMITTED IN BIDDER'S LETTERHEAD)

To,
BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	“PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDARA VILLAGE, RAMPALUPAZILA, BAGERHAT DISTRICT, BANGLADESH”.	
Ref	1.0	TENDER NO: PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019.
	2.0	TENDER CHANGE NOTICE: TCN-01 dtd. 03/05/2019
	3.0	Other references (if any).

Dear Sir,

With reference to above tender, this is to confirm you that we have gone through each and every terms and conditions mentioned in the enquiry (Terms and Conditions) and we offer our unqualified acceptance of the same.

We also confirm that we have not changed/modified the tender documents as appeared in the website/newspapers and in case of observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT *and confirm our acceptance to **reverse auctioning process*** and we hereby convey our unqualified acceptance to all terms and conditions as stipulated in the tender and NIT.

It is also confirmed that the price has been quoted in the format received with the enquiry. We confirm that, we do not have any objections to splitting the quantity among the different bidders by BHEL and price shall remain firm till the completion supply of full ordered quantity.

Any deviation found subsequently at any time during execution of order shall be treated null and void.

Thanking you,

Yours faithfully,

(Signature of bidder with Seal)

Tender for "PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDARA VILLAGE, RAMPALUPAZILA, BAGERHAT DISTRICT, BANGLADESH".

Tender No: PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019.

Annexure-Clarification

Sl. No.	Volume / Section / Document	Page No.	Cl. No.	Bid Specification/Tender provision	Bidders Query	BHEL's reply
1	VOLUME-IF-CML-REV-0 : SPECIAL CONDITIONS OF CONTRACT (SCC)	PAGE 6 OF 31	3.2.1, 3.2.2 & PART OF 3.2.7	<p>Construction water of required quality will be made available before start of work at one point within 500 m from work premises free of cost to the Bidder.</p> <p>Bidder has to install minimum 150 Cum Capacity of water storage tank in Batching Plant area.</p> <p>Further necessary network for construction & drinking water system shall be done by the bidder at his own cost.</p> <p>Area for setting up the RO Plant shall be decided by BHEL engineer. Input water from river /boring source shall be arranged by the bidder at his own cost.</p>	<p>Whether the construction water and input water for RO Plant will be provided by BHEL at free of cost or contractor shall arrange the same.</p>	<p>Construction water of required quality will be made available before start of work at one point within 500 m from work premises free of cost to the Bidder.</p> <p>Bidder has to install minimum 150 Cum Capacity of water storage tank in Batching Plant area.</p> <p>However, construction of RO Plant is under the scope bidder as per Clause No. 11.4.2 of SCC.</p>
2	GENERAL	-----	Water quality	-----	<p>Details of water parameters for input Raw Water is required to set up RO plant. Same need to be provided.</p>	<p>Input water parameters of Pasur River for RO Plant is attached as per Annexure B.</p>
3	VOLUME-IF-CML-REV-0 : SPECIAL CONDITIONS OF CONTRACT (SCC)	PAGE 25 OF 31	21 & 21.1	<p>INTEREST BEARING RECOVERABLE ADVANCE/ MOBILISATION ADVANCE : Not applicable in this tender.</p>	<p>Bidder requested to provide interest free mobilisation advance (in a single installation) @5% of the total contract value at the time of issue of LOA.</p>	<p>No change in tender provisions</p>
4	GENERAL	-----	-----	-----	<p>Bidder requested for Secured Advance @60% of the respective item shall be paid after receiving stone chips and cement at site duly certified by BHEL.</p>	<p>No change in tender provisions</p>
5	VOLUME-IF-CML-REV-0 : SPECIAL CONDITIONS OF CONTRACT (SCC)	PAGE 28 OF 31	34.0	<p>TOOLS & PLANTS (TO BE PROVIDED BY CONTRACTOR) : AS DETAILED IN REFERRED CLAUSE.</p>	<p>Bidder is in business for construction of residential Govt. flats having turnover of 35 Cr. In last financial year. 30 m3 RMC (twin shaft mixer of Make-Sany), Concrete Pump of Schwing Stetter along with backhoe loader (CAT) is available with bidder & can be made available on requirement. Bidder can enhance the RMC capacity from 30 m3 to 120 m3 in 2-3 months. Whether bidder may be considered for this tender.</p>	<p>Tools & Plants (To be provided by contractor) : As detailed in cl. no. 34.0. Bidder to comply tender provisions for participation in tender.</p>

(Signature, date & seal of authorized representative of the contractor)

Tender for "PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDARA VILLAGE, RAMPALUPAZILA, BAGERTHAT DISTRICT, BANGLADESH".				
Tender No: PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019.				
Annexure-A				
Sl. no.	Volume / Section / Document	Clause No.	Existing provision / clause	Revised provision / clause
1	VOLUME-IF-CML-REV-0 : SPECIAL CONDITIONS OF CONTRACT (SCC)	11.4.1.2	Existing RMC suppliers at 2x660 MW Maitree project may be qualified subject to achieving the below mentioned quantity from Jan'18 to April'19 as detailed below. Vendor against PO ref. PSER:PUR:PMX-350:044:R-204(PO:17:PP:0015:PUR:454) dtd 06.02.2018 must achieve average monthly RMC output of 20,000 cum. Vendor against PO ref. PSER:PUR:PMX-350:044:R-273(PO:17:PP:0015:PUR:429) dtd 16.01.2018 must achieve average monthly RMC output of 12,000 cum.	Clause is deleted
2	VOLUME-IF-CML-REV-0 : SPECIAL CONDITIONS OF CONTRACT (SCC)	11.4.2	BHEL reserves the right to split the scope of supply of RMC (Total price for Schedule - 2 / Concrete) , Scope pertaining to Schedule - 4 of price schedule i.e. Construction Water, shall be non-spittable & shall lie with the L1 bidder only Splitting of scope for supply of RMC, shall be on around pproximately 60:40 ratio basis after getting L2/L3/L4 but except H1(except in the case of two qualified bidders),subject to bidders acceptance of the counter offered L1 price for supply of RMC (Total price for Schedule - 2 / Concrete). Sequence of counter offer shall be as per their respective ranking. In case of only two qualified bidder, BHEL shall reserve the right to split the scope for supply of RMC in the ratio of 60:40(Approximately) .PO shall be placed for 100% on L1 bidder, If None Of The Other Bidders Match The L1 Rate. In case of splitting the tender, the stipulated ratio of supplies i.e. 60:40 basis for RMC from both the suppliers, shall be maintained & controlled by BHEL BANGLADESH MAITREE SITE	BHEL reserves the right to split the scope of supply of RMC (Total price for Schedule - 2 / Concrete) , Scope pertaining to Schedule - 4 of price schedule i.e. Construction Water, shall be non-spittable & shall lie with the L1 bidder only Splitting of scope for supply of RMC, shall be on around approximately 55:45 ratio basis after getting L2/L3/L4 but except H1(except in the case of two qualified bidders), subject to bidders acceptance of the counter offered L1 price for supply of RMC (Total price for Schedule - 2 / Concrete). Sequence of counter offer shall be as per their respective ranking. In case of only two qualified bidder, BHEL shall reserve the right to split the scope for supply of RMC in the ratio of 55:45(Approximately) .PO shall be placed for 100% on L1 bidder, If None Of The Other Bidders Match The L1 Rate. In case of splitting the tender, the stipulated ratio of supplies i.e. 55:45 basis for RMC from both the suppliers, shall be maintained & controlled by BHEL BANGLADESH MAITREE SITE
3	VOLUME-IF-CML-REV-0 : SPECIAL CONDITIONS OF CONTRACT (SCC)	34.5 (PAGE NO. 29 OF 31)	Major T&P items (If Job will be Splitted among two Vendors in 60:40 ratio)	Major T&P items (If Job will be Splitted among two Vendors in 55:45 ratio)
		A	T&Ps for 60% job	T&Ps for 55% job
4	VOLUME-IF-CML-REV-0 : SPECIAL CONDITIONS OF CONTRACT (SCC)	34.6 (PAGE NO. 29 OF 31)		
		B	T&Ps for 40% job	T&Ps for 45% job
5	VOLUME-III UNPRICED PRICE SCHEDULE, REV-0	SCHEDULE- 3 : CONCRETE: Item No.6A	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping. [The cement shall comply with Portland Pozzolana Cement as per BS EN 197-1 Part-4 with minimum ash content is more than 25%]	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping. [The cement shall comply with Portland Pozzolana Cement as per BS EN 197-1 Part-4 with minimum ash content is more than 25%] RMC report shall be shared with Green Building consultant.
6	VOLUME-III UNPRICED PRICE SCHEDULE, REV-0	SCHEDULE- 3 : CONCRETE: Item No.6B	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 12.5 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping. [The cement shall comply with Portland Pozzolana Cement as per BS EN 197-1 Part-4 with minimum ash content is more than 25%]	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 12.5 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping. [The cement shall comply with Portland Pozzolana Cement as per BS EN 197-1 Part-4 with minimum ash content is more than 25%] RMC report shall be shared with Green Building consultant.
(Signature, date & seal of authorized representative of the contractor)				

RAW WATER ANALYSIS OF PASUR RIVER(INPUT WATER FOR RO PLANT) ANNEXURE B

Design Wave Height 2.0 m
 Design Wave Period 6.0 sec
 Sedimentation and Siltation: Soft to stiff clay and alternations of very sandy and stiff clay.

The results of bathymetric investigations of the Passur River can be found in **Part C Annexes.**

A water analysis from the area adjacent to the site giving salinity and water quality is shown below:

loc ation	Date	Tem p.	pH	EC	Cl	T. Alkal inity	Turbid ity	T S	TDS	SS	DO	BOD	COD	Sal inity
		°C		µS/cm	mg/l	mg/l	NTU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
1	7-Jan	27.4	7.74	3010	879	36	68.7	1565	1510	55	5.1	0.8	55	1.6
2	7-Jan	27.1	7.72	3020	878.8	36	68.5	1570	1510	60	5.1	0.8	55	1.6
3	7-Jan	27.8	7.71	3030	879	36	68.8	1565	1510	55	5.1	0.8	55	1.6
1	11-Feb	29.8	7.66	4380	1262	36	182	2390	2180	210	4.7	1	76	2.3
2	11-Feb	29.2	7.63	4380	1268	36	178	2390	2190	200	4.7	1	76	2.3
3	11-Feb	29.1	7.65	4380	1263	36	179	2380	2180	200	4.7	1	76	2.3
1	9-Mar	32.6	7.56	11780	2944.4	38	176	6080	5890	190	4.7	1.2	76	6.7
2	9-Mar	32.6	7.57	11780	2945.2	38	178	6080	5890	190	4.7	1.2	76	6.7
3	9-Mar	32.1	7.55	11780	2946.4	38	177	6090	5890	200	4.7	1.2	76	6.7
1	17-Apr	32.6	7.59	25300	8273	36	185.6	12950	12700	250	4.6	0.7	136	15.5
2	17-Apr	32.6	7.59	25300	8273	36	186.2	12950	12700	250	4.6	0.7	138	15.5
3	17-Apr	32.6	7.59	25300	8273	36	184.8	12950	12700	250	4.6	0.7	136	15.5
1	5-May	32.6	7.59	29200	9480	36	198.6	14900	14600	300	4.5	1.2	177	17.6
2	5-May	32.9	7.54	29200	9470	36	198.6	14900	14600	300	4.4	1.2	177	17.6

**Figure 1 Water quality of the Passur River at Mongla point
 (Source: EIA-Report)**

Tender for "PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDARA VILLAGE, RAMPAL UPAZILA,BAGERHAT DISTRICT, BANGLADESH".

loc ati on	Date	Tem p.	pH	EC	Cl	T. Alkal inity	Turbid ity	T S	TDS	SS	DO	BOD	COD	Sal inity
		°C		µS/cm	mg/l	mg/l	NTU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
3	5-May	33.2	7.57	29200	9470	36	199.6	14900	14600	300	4.5	1.2	177	17.6
1	13-Jun	31.6	7.69	18000	5820	36	112.6	9200	9000	200	4.7	1.1	97	10.8
2	13-Jun	31.6	7.69	18000	5800	36	113.2	9200	9000	200	4.7	1.1	97	10.8
3	13-Jun	31.6	7.69	18000	5810	36	112.4	9200	9000	200	4.7	1.1	97	10.8
1	1-Jul	31.6	7.69	440	32.6	36	76.6	285	220	65	5.2	0.8	26	-
2	1-Jul	31.6	7.69	440	32.6	36	76.6	285	220	65	5.2	0.8	26	-
3	1-Jul	31.6	7.69	440	32.6	36	76.6	285	220	65	5.2	0.8	26	-
1	5-Aug	31.6	7.69	275	16.6	36	68.6	192	137	55	5.3	0.7	22	-
2	5-Aug	31.6	7.69	275	16.6	36	68.6	192	137	55	5.3	0.7	22	-
3	5-Aug	31.6	7.69	275	16.6	36	68.6	192	137	55	5.3	0.7	22	-
1	8-Sep	31.6	7.74	270	15.6	36	65.6	180	135	45	5.5	0.7	22	-
2	8-Sep	31.6	7.76	270	15.6	36	65.6	180	135	45	5.5	0.7	22	-
3	8-Sep	31.6	7.74	270	15.6	36	65.6	180	135	45	5.5	0.7	22	-
1	12-Oct	30.6	7.79	290	26.6	36	62.6	192	145	47	5.6	0.7	22	-
2	12-Oct	30.6	7.78	290	26.6	36	62.6	192	145	47	5.6	0.7	22	-
3	12-Oct	30.6	7.78	290	25.6	36	62.6	192	145	47	5.6	0.7	22	-
1	5-Nov	24.6	7.79	340	38.6	36	56.6	210	170	40	5.6	0.7	22	-
2	5-Nov	26.6	7.79	340	38.6	36	56.6	210	170	40	5.6	0.7	22	-
3	5-Nov	25.6	7.79	340	38.6	36	56.6	210	170	40	5.6	0.7	22	-
1	12-Dec	21.5	7.72	520	62.6	36	72.6	320	260	60	5.1	0.9	25	0.4
2	12-Dec	20.9	7.71	520	62.6	36	73.6	320	260	60	5.1	0.9	25	0.4
3	12-Dec	21.1	7.72	520	62.6	36	71.6	320	260	60	5.1	0.9	25	0.4

Figure 2 Water quality of the Passur River at Mongla point (Source: EIA-Report)

**VOLUME-III
UNPRICED PRICE SCHEDULE, REV-1**

**PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDRA VILLAGE,
RAMPAL UPAZILA, BAGERHAT DISTRICT, BANGLADESH**

TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019 .

PREAMBLE

1	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully before filling in rates for various items. Clauses under this preamble shall be read in conjunction with various volumes of tender and other tender sections as applicable and shall have precedence over any contrary statement mentioned any where in this document.
2	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclosed with the tender are only preliminary and for tender purposes and giving some idea of the work involved. The work is to be executed as per drawings & documents, which shall be furnished during execution.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc. equipment, strengthening of roads / culverts / bridges etc. including arranging all clearances etc. required for carrying out different activities & tests, materials, levies, taxes (except service tax), transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the complete tender document and this schedule.
5	The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of work executed under any part of this contract including extra items, if any but excluding any price variation remains, within fifteen percent (\pm 15%) of the awarded price as per LOI .
6	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and / or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
7	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing , clearing of old structures and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same.However, if separate rate for such item is available in the rate schedule, the same shall be considered.
8	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English language.
9	All works item wise shall be measured upon completion and paid for at the rates quoted and accepted as per BHEL approved payment schedule/billing break-up.
10	The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
11	Bidders are not allowed to alter the Price Schedule format including item description,quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them.BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/alterd by them. Also putting any comments instead of rates/price in the designated column of the rate schedule shall make the offer liable for rejection.
12	Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
13	In case if the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of BPWD schedule as prescribed in the tender / BOQ cum Rate Schedule.
14	No interest, whatsoever, shall be payable by BHEL on the security deposit, any bank guarantee submitted or any amount due to successful bidder/contractor.
15	Size and weights of various items are mentioned in the attached BOQ cum rate / price schedule for reference purpose only & these shall not be taken into consideration for quoting / calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items.

VOLUME-III
UNPRICED PRICE SCHEDULE, REV-1

PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDRA VILLAGE, RAMPAL UPAZILA, BAGERHAT DISTRICT, BANGLADESH

TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019 .

SCH-1 : TOTAL PRICE

SL NO	DESCRIPTION	PRICE SCHEDULE REF	TOTAL QUOTED PRICE (IN USD)
1.0	PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDRA VILLAGE, RAMPAL UPAZILA, BAGERHAT DISTRICT, BANGLADESH	SCH 2 - BREAK UP OF TOTAL PRICE	IN FIGURES:- IN WORDS:-
2.0	NON-SCHEDULE ITEM Quote % above or % below or at par for items not covered as above of this schedule. The rate shall be derived from Schedule of Rates 2014, PWD, Govt. of Bangladesh		
2a)	Rate of complete item	_____ % above / _____ % below/ at par of BPWD Rate Schedule 2014	
2b)	Rate of supply of material at site only	_____ % above / _____ % below/ at par of BPWD Rate Schedule 2014	
2c)	Rate for execution complete excluding supply of materials.	_____ % above / _____ % below/ at par of BPWD Rate Schedule 2014	
NOTE			
1.0	Bidder shall WRITE QUOTED/NOT QUOTED IN SPACE PROVIDED for total price of SCH-1- Part only at sl no 1 above. All other amounts/ rates of each item of works in respective schedules/ parts will be derived based on allocated percentages. As such, any uncalled figure/ amount noted at any other place/ schedule of Volume-III will not be recknoed & will stand null & void.		
2.0	Bidder to note that total price at sl no 1.0 above shall be considered for evaluation & awarding grand total price should be complete in all respect for the full scope defined and considering all terms and conditions.		
3.0	Bidder to note that SCH-2 is Break- up of Total Price.		
4.0	Bidder to note that SCH-3 covers supply of RMC, unless specified otherwise in the description of items.		
5.0	Bidder to note that SCH-4 covers for Construction Water System , unless specified otherwise in the description of items.		

VOLUME-III
UNPRICED PRICE SCHEDULE, REV-1

PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDRA VILLAGE, RAMPAL UPAZILA, BAGHERHAT DISTRICT, BANGLADESH

TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019 .

SCH-1 : TOTAL PRICE

6.0	Bidder's quoted total price at Sl. no 1 above respectively shall be apportioned into amount of various items of works based on allocated percentages against respective item, in respective schedules/ parts. As such, bidder shall not indicate/ quote any amount/ rate in these schedules/ parts and any amount/ rate quoted against any item shall not be taken into cognizance/ account and offer may be liable for rejection.
7.0	Based on the itemwise percentage allocations, the amount for the individual items of the Bill of Quantity shall be arrived at. The rates of individual items shall be derived from the amount against each items after rounded off .
8.0	Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per Sl No.9 below.
9.0	Unit rates of each item of works of respective schedules/ parts will be derived by dividing derived amount by corresponding quantities. In deriving the unit rates of each item in this manner, figures only upto 4 decimal places will be taken into account. Any adjustment, if required, due to such methodology, will be effected in final bill.
10.0	Successful bidder shall draw a schedule of quantities of various items of work of SCH-4 and obtain BHEL's approval/ clearance in writing before procurement, supply, etc.
11.0	Any item as per scope of work, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.
12.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.
13.0	The quantity of items may vary during execution mainly due to actual requirement etc. The unit rates work out from the overall amount quoted & accepted by BHEL shall be considered and no separate unit rates shall be allowed. Unit rates shall be valid throughout the contract period.
14.0	For payment of non schedule items, the rate shall be derived from Schedule of Rates 2014, PWD, Govt. of Bangladesh. USD equivalent of BDT will be paid at the Selling Exchange Rate of USD (four banker) as on the date of payment.
15.0	The quoted rate shall remain firm for one year from date of start of work, as certified by Construction Manager, BHEL and thereafter rates will be increased by 3% (Three Percent) for additional period limited to one year, if the job gets extended due to delay attributable to BHEL.

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TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019 .

SCH-2 : BREAK UP OF TOTAL PRICE SCHEDULE

SL NO	DESCRIPTION	<u>PRICE SCHEDULE REF</u>	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
1.0	CONCRET	SCH 3 -CONCRET	98.4971120%
2.0	CONSTRUCTION WATER	SCH 4 -CONSTRUCTION WATER SYSTEM	1.5028880%
	TOTAL		100.0000000%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
	<p>Supply of Concrete including cost of establishment of Design mix of various grades ,Trial mix, labour, materials and equipment for handling, transportation, batching, mixing with mechanised equipments like batching plant, complete as per specifications, relevant laws of Bangladesh, manufacturer's recommendation, and guideline of ASTM C94-16b / relavant BS standards / equivalent international standards, as approved by BIFPCL/BHEL and as per direction of engineer in charge for the following. Transportation of concrete will be done by the user. <i>[The cement shall be conforming to ASTM C150-07 with C3A content 5% to 8 % as specified in type- I unless stated specifically in the Item except item No. 6A & 6B]</i></p>			
A	CONCRETE FOR PCC & RCC			
1	Supply of grade C8/10 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33 including breaking chips and screening) with normal workability for Pain Cement Concrete.	CUM	1681	0.3717830%
2	Supply of Concrete of grade C8/10 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with maximum 37.5 mm graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent) with normal workability for Pain Cement Concrete.	CUM	216	0.0528260%
3	Supply of grade C12/15 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33 including breaking chips and screening) with normal workability for Plain Cement Concrete.	CUM	960	0.2460720%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
4	Supply of Concrete of grade C12/15 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with maximum 37.5 mm graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent) with normal workability for Plain Cement Concrete.	CUM	9603	2.6383360%
5	Supply of Concrete of grade C16/20 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with 19 mm nominal size graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent with normal workability for Plain Cement Concrete.	CUM	480	0.1365980%
6A	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping. [The cement shall comply with Portland Pozzolana Cement as per BS EN 197-1 Part-4 with minimum ash content is more than 25%] RMC report shall be shared with Green Building consultant.			
a)	Grade C20/25	CUM	960	0.2933920%
b)	Grade C25/30	CUM	8643	2.7166060%
c)	Grade C30/37	CUM	14405	4.6556740%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
6B	<p>Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318 14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 12.5 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping. [The cement shall comply with Portland Pozzolana Cement as per BS EN 197-1 Part-4 with minimum ash content is more than 25%]</p> <p>RMC report shall be shared with Green Building consultant.</p>			
a)	Grade C20/25	CUM	1200	0.3593840%
b)	Grade C25/30	CUM	2401	0.7396330%
7A	<p>Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318 14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping.</p>			
a)	Grade C20/25	CUM	2401	0.7561510%
b)	Grade C25/30	CUM	57618	18.6724510%
c)	Grade C30/37	CUM	62420	20.7970570%
d)	Grade C35/45	CUM	960	0.3295580%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
7B	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318.14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of maximum 12.5 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping.			
a)	Grade C16/20	CUM	48	0.0136600%
b)	Grade C20/25	CUM	120	0.0378080%
c)	Grade C25/30	CUM	120	0.0389010%
8	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318.14 or equivalent International code for reinforced concrete works of grade C30/37 in machine foundations with addition of suitable plasticizer conforming to BS 934 or equivalent International standard to achieve a slump more than 125mm in concrete as per manufacturer's recommendation with 19 mm nominal size graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent.	CUM	4802	1.6411020%
9	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318.14 or equivalent International code for reinforced concrete works of grade C35/45 in machine foundations with addition of suitable plasticizer conforming to BS 934 or equivalent International standard to achieve a slump more than 125mm in concrete as per manufacturer's recommendation with 19 mm nominal size graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent.	CUM	240	0.0853390%
9A	Extra over SL. No. A.6 to A.8 for controlling of temperature of fresh concrete to less than 25 degree centigrade using ice, including all related arrangements for providing, storing and mixing of ice with water, cooling of aggregates etc. All complete as per specification, drawing and instruction of engineer in charge.	CUM	1200	0.0378840%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
9B	Extra over items A 6 to A 11 for providing and mixing approved Bipolar Concrete penetrating Corrosion inhibiting admixture in concrete as per detail specification of manufacturer etc. all complete and and as approved by BIFPCL/BHEL.	Kg	240	0.0020600%
10	Supply of concrete conforming to relevant BSEN/ASTM code or equivalent international code with coarse sand and graded hard stone aggregate 12.5mm / 6 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent. etc complete as per following.			
a)	1:2:4 (1 part cement, 2 part sand, 4 parts of aggregate by volume)	CUM	960	0.2638340%
b)	1:1.5:3 (1 part cement, 1.5 part sand, 3 parts of aggregate by volume)	CUM	96	0.0276330%
11	Supply of Design Mix cement concrete as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent International code for reinforced concrete works using graded aggregate for Concrete in water retaining / conveying structures including addition of suitable plastisizer cum waterproofing cement additives conforming to BS 934 or equivalent international standard to achieve a slump more than 125 mm in concrete as per manufacturers recommendation and conforming to limits of permeability as per relevant BS code or equivalent international code and specification with 19 mm nominal size graded aggregate for following grades.			
a)	C 25/30 grade	CUM	24	0.0101060%
b)	C 30/37 grade	CUM	4802	2.0943120%
12	Supply of cement slurry in proportion 1:3(Cement: Sand) for priming of concrete pump etc. as per requirement placed by Concrete user through BHEL.	CUM	2401	0.3745640%
B	CONCRETE FOR PRE-CAST WORK			

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TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019 .

SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
13	Supplying of concrete of grade C40/50 for pre-cast concrete as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with 19 mm nominal size stone aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent.	CUM	1200	0.4159260%
C	CONCRET FOR ROAD WORK			
14 a)	Supplying dry lean concrete of required thickness of grade C8/10 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33) including breaking chips and screening all complete for Road Work .	CUM	240	0.0623610%
14 b)	Supplying dry lean concrete of required thickness of grade C12/15 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with well graded stone aggregates conforming to ASTM C33) including breaking chips and screening all complete for Road Work .	CUM	240	0.0685930%
15A	Supplying cement concrete of grade C25/30 conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent with approved admixture (if required), all complete for Road Work .	CUM	2401	0.7722010%
15B	Supplying cement concrete of grade C30/37 conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent with approved admixture (if required), all complete for Road Work .	CUM	1681	0.5710620%

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TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019 .

SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
D	CONCRETE FOR CAST IN SITU PILES			
16	Supply of cement concrete grade C30/37 confirming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 with a minimum cement content of 400 Kg per cum of concrete including all materials, hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent, plasticizer wherever required all complete for casting of Cast-in situ Piles.	CUM	108035	36.7186860%
E	CONCRETE FOR PRE CAST PILES			
17	Supply of cement concrete as per BS EN 12794 2005 using cement concrete grade C40/50 confirming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with a minimum cement content of 400 Kg per cum of concrete including all materials, hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent, plasticizer wherever required all complete for casting of Pre-cast Piles.	CUM	7202	2.4955590%
	TOTAL			98.4971120%

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SCHEDULE- 4 : Construction Water System

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
A	SUPPLY AND SERVICE PART:			
	Setting up a Reverse Osmosis (RO) Plant of capacity 20 Cum/Hr including design, engineering and procurement, installation for supply of Construction Water System having 750 Cum RCC reservoir for storage of construction water with supply & installation of 2 nos main and 1 stand by Submersible pump-motor (10 HP, 7.5 KW)set. including all Civil, Structural, electrical and pipe connection as required as per direction of the engineers for production of Construction			
a	Entire Supply, Installation including Civil, Structural, electrical, pipe connection, Erection, etc required for the system.	LS	1	1.23808%
b	Commissioning.	LS	1	0.15025%
B	Operation & maintenance (O&M) PART: Operation & maintenance (O&M) of RO Plant- Construction Water System (20 cum / hour) and 750 Cum storage RCC reservoir and Discharge headers including supply of two skilled Trained manpower & supply of additional manpower as per requirement, replacement of filter, cleaning / replacement of Membrane etc, Testing of water sample and submit the test result to BHEL / BIFCL as per Technical specification and as per direction of BHEL.	MONTHS	12	0.11455%
	TOTAL			1.50289%

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**PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDRA VILLAGE,
RAMPAL UPAZILA, BAGERHAT DISTRICT, BANGLADESH**

TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019.

PREAMBLE

1	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully before filling in rates for various items. Clauses under this preamble shall be read in conjunction with various volumes of tender and other tender sections as applicable and shall have precedence over any contrary statement mentioned any where in this document.
2	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclosed with the tender are only preliminary and for tender purposes and giving some idea of the work involved. The work is to be executed as per drawings & documents, which shall be furnished during execution.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc. equipment, strengthening of roads / culverts / bridges etc. including arranging all clearances etc. required for carrying out different activities & tests, materials, levies, taxes (except service tax), transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the complete tender document and this schedule.
5	The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of work executed under any part of this contract including extra items, if any but excluding any price variation remains, within fifteen percent (\pm 15%) of the awarded price as per LOI .
6	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and / or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
7	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing , clearing of old structures and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same.However, if separate rate for such item is available in the rate schedule, the same shall be considered.
8	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English language.
9	All works item wise shall be measured upon completion and paid for at the rates quoted and accepted as per BHEL approved payment schedule/billing break-up.
10	The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
11	Bidders are not allowed to alter the Price Schedule format including item description,quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them.BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/alterd by them. Also putting any comments instead of rates/price in the designated column of the rate schedule shall make the offer liable for rejection.
12	Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
13	In case if the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of BPWD schedule as prescribed in the tender / BOQ cum Rate Schedule.
14	No interest, whatsoever, shall be payable by BHEL on the security deposit, any bank guarantee submitted or any amount due to successful bidder/contractor.
15	Size and weights of various items are mentioned in the attached BOQ cum rate / price schedule for reference purpose only & these shall not be taken into consideration for quoting / calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items.

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TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019.

SCH-1 : TOTAL PRICE

SL NO	DESCRIPTION	PRICE SCHEDULE REF	TOTAL QUOTED PRICE (IN USD)
1.0	PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDRA VILLAGE, RAMPAL UPAZILA, BAGERHAT DISTRICT, BANGLADESH	SCH 2 - BREAK UP OF TOTAL PRICE	IN FIGURES:- IN WORDS:-
2.0	NON-SCHEDULE ITEM Quote % above or % below or at par for items not covered as above of this schedule. The rate shall be derived from Schedule of Rates 2014, PWD, Govt. of Bangladesh		
2a)	Rate of complete item	_____ % above / _____ % below/ at par of BPWD Rate Schedule 2014	
2b)	Rate of supply of material at site only	_____ % above / _____ % below/ at par of BPWD Rate Schedule 2014	
2c)	Rate for execution complete excluding supply of materials.	_____ % above / _____ % below/ at par of BPWD Rate Schedule 2014	
NOTE			
1.0	Bidder shall quote total price for total price of SCH-1- Part only at sl no 1 above. All other amounts/ rates of each item of works in respective schedules/ parts will be derived based on allocated percentages. As such, any uncalled figure/ amount noted at any other place/ schedule of Volume-III will not be recknoed & will stand null & void.		
2.0	Bidder to note that total price at sl no 1.0 above shall be considered for evaluation & awarding grand total price should be complete in all respect for the full scope defined and considering all terms and conditions.		
3.0	Bidder to note that SCH-2 is Break- up of Total Price.		
4.0	Bidder to note that SCH-3 covers supply of RMC, unless specified otherwise in the description of items.		
5.0	Bidder to note that SCH-4 covers for Construction Water System , unless specified otherwise in the description of items.		

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PROVIDING READY MIX CONCRETE FOR 2X660 MW MAITREE SUPER THERMAL POWER PROJECT AT MOIDRA VILLAGE, RAMPAL UPAZILA, BAGHERHAT DISTRICT, BANGLADESH

TENDER NO - PSER:PUR:PMX-350(II):009(ENQ:19:PP:0015:PUR:13) Date: 20/04/2019, TCN-01 dtd. 03/05/2019.

SCH-1 : TOTAL PRICE

6.0	Bidder's quoted total price at Sl. no 1 above respectively shall be apportioned into amount of various items of works based on allocated percentages against respective item, in respective schedules/ parts. As such, bidder shall not indicate/ quote any amount/ rate in these schedules/ parts and any amount/ rate quoted against any item shall not be taken into cognizance/ account and offer may be liable for rejection.
7.0	Based on the itemwise percentage allocations, the amount for the individual items of the Bill of Quantity shall be arrived at. The rates of individual items shall be derived from the amount against each items after rounded off .
8.0	Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per Sl No.9 below.
9.0	Unit rates of each item of works of respective schedules/ parts will be derived by dividing derived amount by corresponding quantities. In deriving the unit rates of each item in this manner, figures only upto 4 decimal places will be taken into account. Any adjustment, if required, due to such methodology, will be effected in final bill.
10.0	Successful bidder shall draw a schedule of quantities of various items of work of SCH-4 and obtain BHEL's approval/ clearance in writing before procurement, supply, etc.
11.0	Any item as per scope of work, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.
12.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.
13.0	The quantity of items may vary during execution mainly due to actual requirement etc. The unit rates work out from the overall amount quoted & accepted by BHEL shall be considered and no separate unit rates shall be allowed. Unit rates shall be valid throughout the contract period.
14.0	For payment of non schedule items, the rate shall be derived from Schedule of Rates 2014, PWD, Govt. of Bangladesh. USD equivalent of BDT will be paid at the Selling Exchange Rate of USD (four banker) as on the date of payment.
15.0	The quoted rate shall remain firm for one year from date of start of work, as certified by Construction Manager, BHEL and thereafter rates will be increased by 3% (Three Percent) for additional period limited to one year, if the job gets extended due to delay attributable to BHEL.

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SCH-2 : BREAK UP OF TOTAL PRICE SCHEDULE

SL NO	DESCRIPTION	<u>PRICE SCHEDULE REF</u>	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
1.0	CONCRET	SCH 3 -CONCRET	98.4971120%
2.0	CONSTRUCTION WATER	SCH 4 -CONSTRUCTION WATER SYSTEM	1.5028880%
	TOTAL		100.0000000%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
	<p>Supply of Concrete including cost of establishment of Design mix of various grades ,Trial mix, labour, materials and equipment for handling, transportation, batching, mixing with mechanised equipments like batching plant, complete as per specifications, relevant laws of Bangladesh, manufacturer's recommendation, and guideline of ASTM C94-16b / relavant BS standards / equivalent international standards, as approved by BIFPCL/BHEL and as per direction of engineer in charge for the following. Transportation of concrete will be done by the user. <i>[The cement shall be conforming to ASTM C150-07 with C3A content 5% to 8 % as specified in type- I unless stated specifically in the Item except item No. 6A & 6B]</i></p>			
A	CONCRETE FOR PCC & RCC			
1	Supply of grade C8/10 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33 including breaking chips and screening) with normal workability for Pain Cement Concrete.	CUM	1681	0.3717830%
2	Supply of Concrete of grade C8/10 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with maximum 37.5 mm graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent) with normal workability for Pain Cement Concrete.	CUM	216	0.0528260%
3	Supply of grade C12/15 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33 including breaking chips and screening) with normal workability for Plain Cement Concrete.	CUM	960	0.2460720%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
4	Supply of Concrete of grade C12/15 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with maximum 37.5 mm graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent) with normal workability for Plain Cement Concrete.	CUM	9603	2.6383360%
5	Supply of Concrete of grade C16/20 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with 19 mm nominal size graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent with normal workability for Plain Cement Concrete.	CUM	480	0.1365980%
6A	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping. [The cement shall comply with Portland Pozzolana Cement as per BS EN 197-1 Part-4 with minimum ash content is more than 25%] RMC report shall be shared with Green Building consultant.			
a)	Grade C20/25	CUM	960	0.2933920%
b)	Grade C25/30	CUM	8643	2.7166060%
c)	Grade C30/37	CUM	14405	4.6556740%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
6B	<p>Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318 14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 12.5 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping. [The cement shall comply with Portland Pozzolana Cement as per BS EN 197-1 Part-4 with minimum ash content is more than 25%]</p> <p>RMC report shall be shared with Green Building consultant.</p>			
a)	Grade C20/25	CUM	1200	0.3593840%
b)	Grade C25/30	CUM	2401	0.7396330%
7A	<p>Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318 14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping.</p>			
a)	Grade C20/25	CUM	2401	0.7561510%
b)	Grade C25/30	CUM	57618	18.6724510%
c)	Grade C30/37	CUM	62420	20.7970570%
d)	Grade C35/45	CUM	960	0.3295580%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
7B	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318.14 or equivalent international standard for reinforced concrete works with coarse sand and graded hard stone aggregate of maximum 12.5 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 including use of plasticizer/ superplasticizer conforming to BS EN 934 (latest) or equivalent international standard to achieve required slump in concrete for pumping.			
a)	Grade C16/20	CUM	48	0.0136600%
b)	Grade C20/25	CUM	120	0.0378080%
c)	Grade C25/30	CUM	120	0.0389010%
8	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318.14 or equivalent International code for reinforced concrete works of grade C30/37 in machine foundations with addition of suitable plasticizer conforming to BS 934 or equivalent International standard to achieve a slump more than 125mm in concrete as per manufacturer's recommendation with 19 mm nominal size graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent.	CUM	4802	1.6411020%
9	Supply of Design Mix cement concrete conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318.14 or equivalent International code for reinforced concrete works of grade C35/45 in machine foundations with addition of suitable plasticizer conforming to BS 934 or equivalent International standard to achieve a slump more than 125mm in concrete as per manufacturer's recommendation with 19 mm nominal size graded aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent.	CUM	240	0.0853390%
9A	Extra over SL. No. A.6 to A.8 for controlling of temperature of fresh concrete to less than 25 degree centigrade using ice, including all related arrangements for providing, storing and mixing of ice with water, cooling of aggregates etc. All complete as per specification, drawing and instruction of engineer in charge.	CUM	1200	0.0378840%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
9B	Extra over items A 6 to A 11 for providing and mixing approved Bipolar Concrete penetrating Corrosion inhibiting admixture in concrete as per detail specification of manufacturer etc. all complete and and as approved by BIFPCL/BHEL.	Kg	240	0.0020600%
10	Supply of concrete conforming to relevant BSEN/ASTM code or equivalent international code with coarse sand and graded hard stone aggregate 12.5mm / 6 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent. etc complete as per following.			
a)	1:2:4 (1 part cement, 2 part sand, 4 parts of aggregate by volume)	CUM	960	0.2638340%
b)	1:1.5:3 (1 part cement, 1.5 part sand, 3 parts of aggregate by volume)	CUM	96	0.0276330%
11	Supply of Design Mix cement concrete as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent International code for reinforced concrete works using graded aggregate for Concrete in water retaining / conveying structures including addition of suitable plastisizer cum waterproofing cement additives conforming to BS 934 or equivalent international standard to achieve a slump more than 125 mm in concrete as per manufacturers recommendation and conforming to limits of permeability as per relevant BS code or equivalent international code and specification with 19 mm nominal size graded aggregate for following grades.			
a)	C 25/30 grade	CUM	24	0.0101060%
b)	C 30/37 grade	CUM	4802	2.0943120%
12	Supply of cement slurry in proportion 1:3(Cement: Sand) for priming of concrete pump etc. as per requirement placed by Concrete user through BHEL.	CUM	2401	0.3745640%
B	CONCRETE FOR PRE-CAST WORK			

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
13	Supplying of concrete of grade C40/50 for pre-cast concrete as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with 19 mm nominal size stone aggregate shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent.	CUM	1200	0.4159260%
C	CONCRET FOR ROAD WORK			
14 a)	Supplying dry lean concrete of required thickness of grade C8/10 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with well graded picked jhama birck chips conforming to ASTM C33) including breaking chips and screening all complete for Road Work .	CUM	240	0.0623610%
14 b)	Supplying dry lean concrete of required thickness of grade C12/15 as per BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard (with well graded stone aggregates conforming to ASTM C33) including breaking chips and screening all complete for Road Work .	CUM	240	0.0685930%
15A	Supplying cement concrete of grade C25/30 conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent with approved admixture (if required), all complete for Road Work .	CUM	2401	0.7722010%
15B	Supplying cement concrete of grade C30/37 conforming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with coarse sand and graded hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent with approved admixture (if required), all complete for Road Work .	CUM	1681	0.5710620%

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SCHEDULE- 3 : CONCRETE

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
D	CONCRETE FOR CAST IN SITU PILES			
16	Supply of cement concrete grade C30/37 confirming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 with a minimum cement content of 400 Kg per cum of concrete including all materials, hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent, plasticizer wherever required all complete for casting of Cast-in situ Piles.	CUM	108035	36.7186860%
E	CONCRETE FOR PRE CAST PILES			
17	Supply of cement concrete as per BS EN 12794 2005 using cement concrete grade C40/50 confirming to BS EN 206:2013+A1:2016 or ACI 211.1-91 (2009) & ACI 318-14 or equivalent international standard with a minimum cement content of 400 Kg per cum of concrete including all materials, hard stone aggregate of 19 mm nominal size shall comply with and be tested in accordance with the requirements of BS EN 12620:2002+A1:2008 OR ASTM C 33-16E1 or equivalent, plasticizer wherever required all complete for casting of Pre-cast Piles.	CUM	7202	2.4955590%
	TOTAL			98.4971120%

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SCHEDULE- 4 : Construction Water System

SL. NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	WEIGHTAGE (Nearest to the 6 decimal points) W.R.T THE TOTAL OF VENDOR QUOTED PRICE IN SCH-1
A	SUPPLY AND SERVICE PART:			
	Setting up a Reverse Osmosis (RO) Plant of capacity 20 Cum/Hr including design, engineering and procurement, installation for supply of Construction Water System having 750 Cum RCC reservoir for storage of construction water with supply & installation of 2 nos main and 1 stand by Submersible pump-motor (10 HP, 7.5 KW)set. including all Civil, Structural, electrical and pipe connection as required as per direction of the engineers for production of Construction			
a	Entire Supply, Installation including Civil, Structural, electrical, pipe connection, Erection, etc required for the system.	LS	1	1.23808%
b	Commissioning.	LS	1	0.15025%
B	Operation & maintenance (O&M) PART: Operation & maintenance (O&M) of RO Plant- Construction Water System (20 cum / hour) and 750 Cum storage RCC reservoir and Discharge headers including supply of two skilled Trained manpower & supply of additional manpower as per requirement, replacement of filter, cleaning / replacement of Membrane etc, Testing of water sample and submit the test result to BHEL / BIFCL as per Technical specification and as per direction of BHEL.	MONTHS	12	0.11455%
	TOTAL			1.50289%