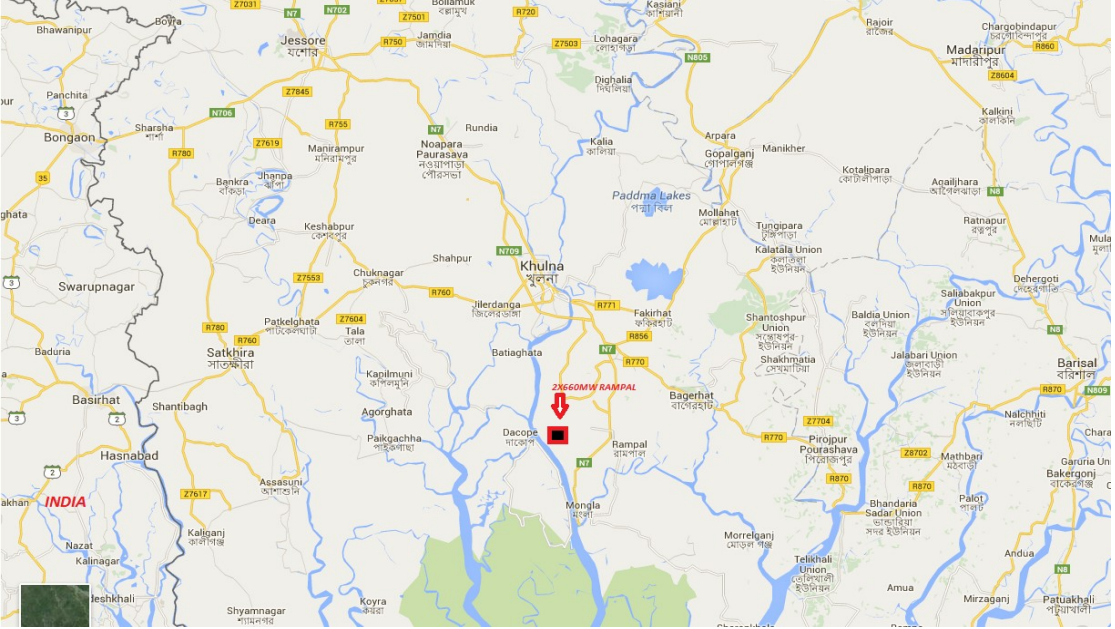


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1.0	PROJECT SYNOPSIS AND GENERAL INFORMATION
1.1	The 2 x 660 MW MAITREE SUPER THERMAL POWER PROJECT is located in Moithara Village, Rampal Upazila, Bagerhat District, Bangladesh. The Bidder shall acquaint himself by a visit to the site, if felt necessary, with the conditions prevailing at site before submission of the bid. The information given herein under is for general guidance and shall not be contractually binding on the Owner. All relevant site data/ information as may be necessary shall have to be obtained / collected by the Bidder.  LOCATION MAP:2X660MW MAITREE RAMPAL PROJECT

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	 LOCATION MAP:2X660MW MAITREE RAMPAL PROJECT
1.2	APPROACH TO SITE The nearest town Khulna is at a distance of 23 km from project site. The site is Connected by road from Mangla- Khulna Highway. Nearest Domestic airport is Jessor, Bangladesh at a distance of about 93 KM and international airport is Dhaka at a distance of 263 KM, Bangladesh
1.3	Owner: BIFPCL (BANGLADESH-INDIA FRIENDSHIP POWER COMPANY (PVT.) LIMITED)
2.0	SCOPE OF CONTRACT
2.1.1	O&M OF EXISTING (A) 1 NO.CONSTRUCTION WATER PLANT (20 CUM / HOUR) + POTABLE WATER PLANT (1 CUM / HOUR) AND (B)1 NO CONSTRUCTION WATER PLANT (20 CUM / HOUR INCLUDING SUPPLY & INSTALLATION OF SPARE PARTS AT 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH.
2.2	Bidder is also responsible to complete the following works on item rate basis
2.2.1	Providing and installation of Spare parts for construction water & potable water system.
2.2.3	The contractor shall provide round the clock (3 shift basis) operation & maintenance services of entire construction Water system & Portable Water system including but not limited to BHEL site office, residential colony, stores, storage & fabrication yard, Customer's and Engineer's site office etc. For above purpose, the contractor shall provide minimum following staff : 1) Overall supervision In-charge -1 No (In General shift) 2) For per shift operation: a) Skilled manpower – 2 Nos.

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2.2.4	supply of additional manpower as when as basis for replace of filter, cleaning/replace of Membrane etc.,
2.2.5	Testing of water sample and submit the test result to BHEL / BIFCL as per Technical specification and as per direction of BHEL
2.2.6	Supply & Dosing of Chemical (like alum etc.) dosing for production of clarified water from river water as per Technical specification and as per direction of BHEL.
2.2.7	Supply & Dosing of Chemical for production of construction Water from Clarified water as per Technical specification and as per direction of BHEL.
2.2.8	Supply & Dosing of Chemical etc. for production of Portable Water from Filtered / Construction/Bored water as per Technical specification and as per direction of BHEL.
2.3	The work to be performed under consists of providing all labour, materials, consumables, equipment, temporary works, temporary storage sheds for your own use, temporary colony for labour and staff, temporary site offices, constructional plant's transportation/ handling and all incidental items not shown or specified but reasonably implied or necessary for the completion of subject scope, all in strict accordance with the specifications including revisions and amendments thereto as may be required during the execution of work.
2.4	All quality standards, tolerances, welding standards & other technical requirements shall be strictly adhered to. All works unless specified otherwise, shall conform to the latest revision and / or replacement of the relevant ASTM / BS / BIS or any other international standard and Codes of Practice mentioned in the technical specification . In case any particular aspect of work is not covered specifically in any standard practice as may be specified by the Engineer shall be followed. Detail scope and specification of work shall be as per tender
2.5	No separate payment shall be made for Water sample testing, supply of Manpower, maintenance for any pump, pipe line or any other equipment during the Maintenance period except replacement of Spare parts. For supply of spare parts, it shall be paid separately as per contract.
2.6	Both the plant as mentioned above in clause no 2.1.1 shall be run alternatively and total cumulative days of operation of both the plant combined, shall be considered for one calendar month in Schedule-4, O&M of Price Schedule. In case of any exigency which require running of both the plant , then payment shall be made for additional no of days beyond one calendar month.
3.0	SITE VISIT
3.1	Contractor should visit site and acquire full knowledge & information about site conditions prevailing at site and in and around the plant premises together with all the statutory, obligatory, mandatory requirements of various authorities before submission of the bid.
3.1	OPEN SPACE
3.1.1	Open spaces for material storage yard may be allocated as made available by the customer / BHEL free / hire charges. Contractor has to make his own arrangements for labour colony including Electricity and water for the labour colony.
3.2	WATER AND ELECTRICITY
3.2.1	Bidder has to make his own arrangement for Water and Electricity for construction purpose,if required.
4.0	TOOLS & PLANTS

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4.1	All the tools and plants required for the O&M work are in contractor's scope.
5.0	MATERIAL SUPPLY
5.1	All the required materials to be supplied and erected by the bidder within the quoted cost. The use of materials shall be subject to inspection at site before erection/installation. Any damaged materials received at site shall be suitably replaced & rectified up to the satisfaction of BHEL Engineer.
6.0	INSPECTION, TESTING AND INSPECTION CERTIFICATES
6.1	In all cases where the vendor provides the tests at the premises of the vendor or any sub-vendor, the vendor except where otherwise specified shall provide free of charge such items as labour, materials, electricity, fuel, water, stores, apparatus and instruments as may be reasonably demanded by the engineer/ inspector to carry out effectively such tests on the equipment in accordance with the contract and shall give facilities to the engineer/ inspector to accomplish testing.
7.0	INSURANCE
7.1	The contractor shall make available the original insurance cover(s) taken by him, against his T&P, assets and workmen compensation and any other cover as may be pertinent to his works and obligatory in terms of law, to BHEL for necessary verification in regard to their adequacy, before commencement of work. However, irrespective of such verification/ acceptance, the responsibility to maintain adequate insurance coverage at all times during the period of the contract shall be of the contractor alone. Such insurance covers to be taken shall be in the joint names of the owner and the contractor. The contractor shall however be authorised to deal directly with the Insurance company(s) and shall be responsible in regard to maintenance of such insurance covers. Insurance covers to be taken by BHEL / Customer shall be as stipulated under relevant clause of Volume-IB.
8.0	DEVIATIONS/ CLARIFICATIONS
8.1	Normally no deviation with respect to tender is acceptable to BHEL. However, in case of unavoidable circumstances, the bidder may submit their query for seeking clarifications of BHEL as per modality stipulated in NIT or may submit the same along with his offer as per prescribed schedule/ format without any ambiguity. Any assumptions, presumptions, deviations etc. indicated or implied anywhere by the bidder except those indicated in the deviation schedule/ format will not be recognized and will not form a part of consideration/ offer. In the absence of such filled-up schedule/ format it will be understood and agreed that the bidder's offer is based on strict conformance to the specification and no negotiation would be allowed in this regard. BHEL reserve the right not to recognize any/ all deviations submitted after opening of the bid.
9.0	DEWATERING
9.1	Contractor shall ensure at all times that his work area & approach / access roads are free from accumulation of water, so that the materials are safe and the erection / progress schedule are not affected. No separate claim in this regard shall be admitted by BHEL. No separate payments for dewatering of subsoil, surface water or catchments water, if required, at any time during execution of the work including monsoon period shall be considered by BHEL.
10.0	CONTRACT PRICE
10.1	Bidder shall quote their prices as per Volume-III, Price Schedule only.
11.0	PAYING AUTHORITY

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11.1	Paying authority shall be Construction Manager of BHEL-Rampal site.
12.0	TIME SCHEDULE/ COMPLETION PERIOD
12.1	The entire scope of the work under this tender shall be completed as per below – Supply, Installation and Commissioning as per site required within the contract period. Contract period is 12 Months from start of work at site, as certified by Construction Manager. However, if required to extend, Successful Bidder Services shall be extended and shall execute at the same terms & condition of the contract for extended period of 6 months. Further extension shall be based on mutually agreeable rate & Terms and conditions, if required to extend.
13.0	CONSTRUCTION SCHEDULE
13.1	Not applicable
14.0	TERMS OF PAYMENT
14.1	The contractor shall submit their running bill (RA bill) once in a month, at the end of the month, as per mutually agreed billing schedule approved by BHEL. RA bill, complete in all respects accompanied by BHEL engineer's certified/ measurement sheet, jointly signed, will be paid after passing of the bill, subject to its completeness & correctness. Measurement will be taken as specified in terms & conditions of the contract and certified by the BHEL engineer of actual work. However, no extra payment shall be made in the event of delay in release of payment. The payment will be made in Bangladesh. Bidder must have an Operative Bank Account in Bangladesh.
14.2	Subject to any deduction which BHEL may be authorized to make under the contract, the contractor shall on the certification of the BHEL engineer at site, be entitled to payment explained hereunder:
14.3	PAYMENT FOR ITEMS IN SCH 3 OF PRICE SCHEDULE: 95% of the price of materials against supply & commissioning of the work. 05% of price shall be released after completion of Guarantee/Warranty period or Completion of O&M Contract, whichever is earlier.
14.3	PAYMENT FOR ITEMS OF SPARES FOR O&M: The spares are already replaced for the RO Plant. However if at all any spares are required to be replaced after inspection and review of the plant as per Annexure-A (List of Spares),shall be paid as per the existing rates of Spares of the ongoing O&M Contract.

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14.5	DELETED
14.6	Contractor's RA bill, complete & correct in all respects, , certified by BHEL engineer, shall be paid within 60 days of submission of bill. However no additional payment shall be made in the event of delay in release of payment beyond the stated period.
14.8	All admissible recovery/ adjustment, etc. shall be made from interim payable amount.
14.9	BHEL site at its discretion may split up percentage break up and effect payment to suit the site condition, cash flow requirement, according to the progress of work.
14.12	The quoted /accepted rate of individual items shall remain Firm throughout the contract period including extension period, if any without any escalation.
15.0	PRICE BID
15.1	Bidders should quote prices as per format, Volume-III provided in the tender. Bids shall be evaluated based on total price quoted.
16.0	PAYMENT FOR ADDITIONAL/EXTRA ITEMS FOR WORKS
16.1	It shall be as per relevant clause of the GCC. However, "Schedule of Rates 2018,PWD , Govt. of the People's Republic of Bangladesh" as mentioned in the price schedule will be considered.
17.0	TAXES, DUTIES ETC
17.1	All taxes, Charges, Royalties and other Taxes , Custom Duty –if any for materials supplied for the work and for the execution of the contract shall be borne by contractor and shall not be payable extra by BHEL. Bidder shall quote their rates/ price excluding VAT and inclusive of all taxes, duties as mentioned above etc. together with variation thereto during contract period including extension, if any. BHEL shall not release any additional payment in this regard Bidder should have valid VAT Registration Number & 12 digit TIN number in Bangladesh prior to start of work. A.I.T under Income Tax Act of Bangladesh , Value Added Tax at source(VDS) etc. shall be deducted at prevailing rates on Gross Invoice Value (includes Supply and Services) from the bills unless Exemption Certificate from the appropriate authority/ authorities is/ are furnished The bidder is responsible for compliance of all relevant Tax Laws of Bangladesh and BHEL will not bear any such liability.
17.2	New tax & duties, if imposed subsequent to latest due date of offer submission, as per NIT & TCN, as applicable, by statutory authority after due date of submission of latest price offer and within the contract period including extension, if any (provided reason for extension is not attributable to vendor), shall be reimbursed by BHEL at actual on production of relevant supporting document to the satisfaction of BHEL. However, the vendor shall obtain prior approval from BHEL before depositing new taxes & duties. However, the Benefits and/or abolition of all existing taxes must be passed on to BHEL against new Taxes, if any, proposed to be introduced at a later date. vendor shall obtain prior approval from BHEL before depositing new taxes & duties
18.0	QUALITY CONTROL & QUALITY ASSURANCE
18.1	Contractor's engineers & supervisors shall be adequately qualified and also inclined to do a quality job. The quality assurance engineer shall co-ordinate all aspects of quality control, inspection, implementation of quality assurance procedures laid down in Quality Plan and technical specification by BHEL. He shall fill up quality assurance log sheets/ formats and submit to BHEL for joint inspection and acceptance. The contractor

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	shall fill up, maintain & preserve the quality records in computerized media. BHEL's authorized representative shall be given free access at all time to such quality related records etc. for inspection, review etc.
19.0	QUALITY ASSURANCE PROGRAMME
19.1	The contractor shall arrange for suitable quality assurance programme to control all activities pertaining to the scope of work, as necessary. Such programs shall be outlined by the contractor & shall be finally accepted by BHEL. A quality assurance programme of the contractor shall generally cover the following
19.2	Organization structure and qualification data for key personnel of the contractor for the management and implementation of proposed quality assurance programme
19.3	The procedure for source inspection, incoming raw material inspection, verification of material purchased etc.
19.4	System for maintenance of records.
20.0	GENERAL REQUIREMENTS – QUALITY ASSURANCE
20.1	All materials, components and equipment covered under the specification shall be procured, manufactured, erected, commissioned and tested, as applicable, at all stages as per comprehensive quality assurance program. An indicative program for inspection / test, to be carried out by the contractor, for some of the major items is given in the respective technical specification.
20.2	Field quality plan will detail out the quality practices and procedures etc. to be followed by the contractor's site quality control organization, during various stages of site activities from receipt of material / equipment at site.
20.3	BHEL reserves the right to carry out quality audit and quality surveillance of the systems and procedures of contractor's quality management. Contractor shall provide all necessary assistance to enable BHEL to carry out such audit.
20.4	Quality audit / approval of the results of test & inspection will not prejudice the right of BHEL to reject an equipment service not giving desired performance and shall not in any way limit the liabilities and responsibilities of the contractor in earning satisfactory performances of equipment/ service as per specification.
20.5	Repair / rectification procedure to be adopted to make any job acceptable shall be subject to the approval of BHEL.
20.6	All the latest relevant codes as per technical specification should be available with the contractor at site within 15 days from the date of placement of LOI or otherwise specified by Construction Manager/ Project Manager, BHEL.
21.0	HEALTH, SAFETY & ENVIRONMENT
21.1	REFER DOCUMENT NUMBER ; HSEP:14-MAITREE: DATE:01.03.16
	DOCUMENT TITLE:-HEALTH, SAFETY AND ENVIRONMENT PLAN FOR 2X660MW MAITREE SUPER THERMAL POWER PROJECT
22.0	SPECIFIC REQUIREMENTS FOR ISO 9002
22.1	Contractors shall ensure that all their staff / employees are exposed to periodical training programs conducted by qualified agencies/ personnel on ISO 9002 Standards.
22.2	Contractor shall ensure that the quality is maintained in all the works connected with this contract at all stages of the requirement of BHEL.
22.3	Contractor shall ensure that all MMDs that are used, whether owned by the contractors or used on loan, are calibrated by the authorized agencies and the valid calibration certificate will be available with them for verification by BHEL. A list of such instruments possessed by the contractor at site with its calibration status is to be submitted to BHEL Engineer for control.

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22.4	Contractor shall ensure that fitness certificate of the tools & plants, that are in use, whether owned by contractor or issued on loan, are tested by authorised agency and the valid fitness certificate is available for verification by BHEL.	
22.5	Contractors shall arrange for the inspection of the works at various stages as required by BHEL. The contractors shall take immediate corrective action for the non-conformances if any, observed and pointed out by BHEL.	
23.0	INTEREST BEARING RECOVERABLE ADVANCE/ MOBILISATION ADVANCE	
23.1	Not applicable for this tender.	
24.0	OVER RUN CHARGES	
24.1	Not applicable in this tender.	
25.0	REVISION ON ACCEPTED CONTRACT RATE	
25.1	Not applicable in this tender	
26.0	PRICE VARIATION CLAUSE / ESCALATION	
26.1	Not applicable for this tender	
27.0	LIQUIDATED DAMAGE	
27.3	In case the contractor fails to deploy requisite manpower as per direction of BHEL/Site and fail to operate and maintain the 'Construction Water system and Distribution package', then if the non-functioning continues more than one day, due to the fault of the contractor, the Liquidated damage shall be levied @ 0.25% of the contract price (O&M part of the Price schedule) for such non-functioning of each day or part thereof.	
27.4	BHEL may grant extension of time schedule in case the reasons are beyond the control of the contractor. Contractor shall provide sufficient documentary evidence, to prove the reasons for delay not in his control, as required by BHEL.	
27.5	All other terms shall be as per the provision of GCC in this regard	
28.0	GUARANTEE/WARRANTY	
28.1	<u>For Spare parts</u> The contractor shall warrant that equipments supplied under this contract will be new and in accordance with the contract documents and free from defects arising due to deficiencies in design and engineering and from defects in material and workmanship for a period of twenty-four (24) calendar months commencing immediately upon the satisfactory completion of Erection & commissioning and handing over (equipment-wise) as certified by BHEL or after completion of O&M Contract, whichever is earlier. In case the contractor fails to repair the defective work within the time specified by BHEL Engineer, BHEL may proceed to undertake the repair of such defective work at contractor's risk and cost without prejudice to any other rights and recover the cost from any dues.	
28.2	Even though the work will be carried out under supervision of BHEL, the contractor will be responsible for the quality of workmanship, quality of materials/ items and design for which the contractor is responsible.	
28.3	All other terms will be governed as per GCC.	
29.0	EXTENSION OF TIME FOR COMPLETION	

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29.1	If the completion of work as detailed in the scope of work gets delayed beyond the contract/ completion period due to reasons not attributable to contractor, the contractor shall make request for an extension of the contract and BHEL at its discretion may extend the contract.
29.2	Based on review of agreed & jointly signed L-2 / construction schedule (as enumerated in the tender), the balance work at the end of original contract period less the backlog attributable to the contractor shall be quantified, and the number of months of 'Time extension' required for completion of the same shall be jointly worked out. Within this period of 'Time extension', the contractor is bound to complete the portion of backlog attributable to contractor. Further 'Time extension' or 'Time extensions' at the end of previous extension shall be worked out similarly.
29.3	However if any 'Time extension' is granted to the contractor to facilitate continuation of work and completion of contract, due to backlog attributable to the contractor alone, then it shall be without prejudice to the rights of BHEL to impose penalty / LD for the delays attributable to the contractor, in addition to any other actions BHEL may wish to take at the risk and cost of contractor.
29.4	A joint program shall be drawn for the balance amount of work to be completed during the period of 'Time Extension', along with matching resources to be deployed by the contractor as per specified format. Review of the programme and record of shortfall shall be done.
29.5	During the period of 'Time extension', contractor shall maintain their resources as per mutually agreed program
29.6	At the end of total work completion as certified by BHEL engineer, and upon analysis of the total delay, the portion of time extensions attributable to (i) Contractor, (ii) Force majeure conditions, and (iii) BHEL, shall be worked out and shall be considered to be exhausted in the same order. The total period of time extensions shall be the sum of (i), (ii) and (iii) above and shall be equal to period between the scheduled date of completion and the actual date of completion of contract. LD shall be imposed/ levied for the portion of time extensions attributable solely to contractor after adjusting delay attributable to BHEL& Force majeure and recoverable from the dues payable to the contractor.
30.0	SECURITY DEPOSIT / PERFORMANCE BOND
30.1	Not Applicable
31.0	CERTIFICATE TOWARDS COMPLETION
31.1	The work under the scope of the contractor shall be deemed to have been completed in all respects only when so certified by BHEL / owner. The decision of BHEL in this regard shall be final and binding on the contractor.
32.0	LABORATORY EQUIPMENT
32.1	You shall provide the following equipment to carry out following tests as listed below.
32.1.1	Sieve analysis of fine aggregates and coarse aggregates.
32.1.2	Concrete Cubes shall be taken at site as per instruction of BHEL and the same shall be tested at Site / Govt. approved laboratory / Institution.
32.1.3	Water Testing Kit for construction Water/RO Water & Potable Water
32.1.4	Turbidity Scale, COD Testing Kit, Hardness Test Kit, Saline Test Kit ,Water Tester, Test Pack for chlorides.
32.2	Other than above mentioned test, any testing required to be carried out at site as per joint discussion at site and technical specification have to be arranged by you for all the works at your own cost.
33.0	MATERIAL HANDLING

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33.1	No material is envisaged to be issued by BHEL in this contract.
33.2	However, the civil materials (to be supplied by you as envisaged) are to be handled by you and you will be solely responsible for safe custody of the same.
34.0	TOOLS & PLANTS (TO BE PROVIDED BY YOU)
	The tentative list of T&P to be deployed by you for successful completion of work is mentioned as detailed below.
34.1	Chloride Test Kit, Turbidity Scale, C.O.D Testing Kit, Drinking Water Test Kit, Water Analyzer Kit as per requirement throughout the contract period.
34.2	It may be noted that the list is not exhaustive and is only for general guidance. You are required to provide all necessary T&P (other than those specified to be provided by BHEL) measuring (calibrated) instruments and handing equipments for timely completion of the total works as per contract. In case of project requirement, some activities may have to pre-pone. In such cases you may have to deploy additional T&P. The accepted rate shall be inclusive of such requirements. However, you shall submit deployment plan of all T&P along with tender bid.
34.3	In the event of any failure of your part, BHEL may at his discretion also terminate the contract on this ground and take out any or whole amount of the contract from your scope. In the event of your failure to deploy necessary and sufficient T&P/ IMTEs. BHEL will be at liberty to arrange the same at your risk and cost including transportation cost of same from any of BHEL site/other agency and charges as applicable shall be deducted from your R/A bill. Decision of BHEL in this regard will be final and binding on you.
34.4	T&P shown in the above mentioned list are minimum requirement. Further requirement will be reviewed at site and you will provide additional T&P/ equipments (to carry out the job successfully within the scheduled time) without any financial implication to BHEL.
34.5	Any addition, deletion or modification required as considered by BHEL on the above format to meet the schedule shall be complied by you at no extra cost to BHEL.
34.6	All T&P and all IMTEs, which are required for successful and timely execution of the work covered within the scope of this tender, shall be arranged and provided by you at your own cost in working condition.
35.0	QUANTITY VARIATION
	Unless otherwise specified & except for tender on lumpsum basis, for all item rate based tenders, the quantities of the various items mentioned in price schedule are approximate, based on very preliminary information and may vary to any extent or to be deleted altogether. The quoted/ accepted rates shall remain firm and valid as long as variation in total value of work executed under this contract including extra items, but excluding any price escalation, remains within +/- 15% (fifteen percent) of the contract price given in the LOI/ WO.
36.0	ISSUE OF MATERIAL DESPATCH CLEARENCE CERTIFICATE

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	For any material that is to be supplied, clearance is to be obtained from concerned engineer/ Site-in-charge before dispatch. BHEL may inspect the material at supplier's (vendor/ sub-vendor's) works at the discretion of BHEL for which vendor has to give inspection request at least 15 days advance. BHEL may waive inspection; under such event vendor shall submit 'Test Report' and 'Certificate of conformance' for review and issue of despatch clearance.
37.0	OTHERS
37.1	The contractor's scope include deployment of all resources, like T&P, materials, consumables, manpower including supervision etc for proper completion of the subject job and no sub-contracting for execution of the job is allowed by BHEL, depending on project's requirement and on prior acceptance of BHEL, contractor may associate agencies for deployment of skilled/ unskilled manpower only for site execution. Contractor should arrange all resources, like T&P, materials, consumables, supervision etc directly for the subject job.
37.2	Contractor to observe all work quality, safety regulations and general technical guide lines as stipulated in relevant clauses tender specification.
37.3	All other terms and conditions as stipulated in the tender document as well as in above mentioned references shall be applicable to this contract.
37.4	All other terms & conditions shall be as per provision of complete tender document

Special Notes:

1. The following welfare measures, in addition to those covered above, are to be taken at the site :
 - a. Adequate Drinking Water
 - b. Adequate no of toilets and washing area
 - c. Canteen
 - d. Rest Shed
 - e. Hygienic Accommodation (Labour Colony) and allied facilities
2. Water sprinkling arrangement for suppression of dust to be made
3. A Safety Park will be put up with participation by all major contractors
4. It must be ensured that no contaminated water including those discharged from Toilets, Canteen, Office and Labour Colony shall be discharged to under-ground water table and river water
5. AS THIS SITE IS LOACTED IN A CYCLONE-PRONE AREA, ALL BUILDINGS AND SHED MUST BE CONSTRUCTED STRONG ENOUGH TO WITHSTAND ADVERSE WEATHER CONDITION
6. FURTHER TO POINT # 5, MASS EVACUATION OF PEOPLE FROM SITE MAY BE CALLED FOR, IF ADVISED SO, BY GOVT AGENCIES. AS IT WILL BE EXTREMELY DIFFICULT TO FIND A REST SHELTER FOR A FEW THOUSAND PEOPLE, IT IS

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FURTHER EMPHASISED THAT ACCOMMODATION MUST BE STRONG ENOUGH TO SURVIVE SUCH EXTREME WEATHER CONDITION.

7. BHEL shall provide drawing for labour accommodation and contractor shall construct the same in line to BHEL drawing with contractor's own contribution/expenses.
8. It is assumed that First aider will be sitting in a porta-cabin.
9. The initial shelter in labour colony for one month till Vendor is able to construct their own labour accommodation may be available in the existing colony on rental basis , based on availability in the existing labour colony.
10. Adequate Quarantine Facility for isolation of workmen of 14 days during induction is to be arranged by the Bidder due to Pandemic COVID-19.All sort of sanitization , hand gloves, nose mask social distancing at labour colony is to be maintained and ensure due to pandemic of COVID-19 as per SOP attached with this Tender. It shall be in practice till such time as demanded by Project Authorities.

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ANNEXURE-A

SL NO	ITEM(SUPPLY, INSTALLATION & COMMISSIONING)	Specification	Brand	UNIT	QTY
Part A.					
a.	a. Construction Water: 20m3/hr				
1	HYPD Dosing System	5 lph @ 7 Bar	SEKO or equivalent	Set	1
2	Air Blower	60m3/h @ 2000 mm Aq	Golden Tech	Set	1
3	Clarifier Feed Pump	50 m3 @ 10 m	CNP or equivalent	Set	1
4	Ferric / Alum Dosing System	220 lph @ 7 bar	SEKO or equivalent	Set	1
5	Lime Dosing Unit	9 m3 @ 5 m	Grampus or equivalent	Set	1
6	Tube Settler for clarifier	MOC: PVC	Any	Lot	1
7	Sludge Transfer Pump	10.8m3 @ 8m	Grampus or equivalent	Set	1
8	Bag Filter Unit	MOC: PVC	Any	Set	1
9	Antiscalant Dosing System	5 lph @ 7 Bar	SEKO or equivalent	Set	1
10	Cartridge Filter Unit	MOC: PVC	Any	Set	1
11	Desalination High Pressure Pump	18m3/h @ 380 m	CNP or equivalent	Set	1
12	RO Pressure vessel	MOC : FRP, 600 PSI, Dia- 8", 6 Element	Wave Cyber/ Code Line	Pcs	1
13	CIP Pump	24m3/h @ 40m	CNP or equivalent	Set	1
14	Heater	10 kw	Any	Set	1
15	Laboratory Item	MOC: PVC	Any	Set	1
16	Media of Dual media filter	Sand, Gravel & Anthracite	Aqualate or equivalent	Lot	1
17	Media of Activated Carbon Filter	Sand, Gravel & Activated Carbon	Gaya or equivalent	Lot	1

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18	Cable & Electomagnetic equipment of Electric control panel.	Cable & Electrical Equipment	Supersign & Schneider or equivalent	Set	1
19	RO Membrane	8040 Model	NanoH2/Hydranautics/GE/LG/Toray/Me mbranum	Nos	32
20	Pre-treatment feed pump	Horizontal Centrifugal Pump, Capacity 20 Cum/Hr., Head 34M	CNP or equivalent	Nos	1
b.	Potable RO Water:1m3/hr				
21	Filter of Potable water treatment plant	MGF, ACF & Membrane	Any	Lot	1
Part B					
a	Distribution of C/W & P/W only from reservoir				
22	Distribution Pump for Construction & Potable Water	1.2-6.6ltr/sec@70-40m	CNP or equivalent	Set	1
23	Distribution Pump for Construction & Potable Water	1.2-6.6ltr/sec@113-70m	CNP or equivalent	Set	1
24	Distribution Pump for Construction & Potable Water	50-200 ltr/min@32.5-18 m	WILO or equivalent	Set	1
25	Distribution Pump for Construction & Potable Water	366-100 ltr/min@32.5-18 m	WILO or equivalent	Set	1
29	20" (inch) Cotton Cartridge Filter Jambo	As per MSTPP specification	China or Equivalent	Nos	48

SL NO	ITEM(SUPPLY,INSTALLATION & COMMISSIONING)	Specification	Brand
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Part A			
a	Potable RO Water: 5m3/hr		
1	SMBS (Standard packing of 25Kg)	As per MSTPP specification	BASF/GERMANY or Equivalent
2	NaoCL	DO.....	China or Equivalent
3	Anti Scalant	RO 102G	UAE or Equivalent
4	20" (inch) Cotton Cartridge Filter Jambo	As per MSTPP specification	China or Equivalent