

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED

Tender Document for Bi-annual rate contract of operation &
maintenance including Risk Protection of HVW Emulsifier system
at Jeerat & Arambag 400 KV Sub-station

NIT No. CETR(O&M)/ TR-I-II/Arambag-Jeerat/ AMC
Emulsifier/2016-17/07 Dated : 09/03/2017

Section I – V
Notice Inviting Tender (NIT)
Instruction to Bidders (ITB)
General Conditions of Contract (GCC)
Special Conditions of Contract (SCC)
Technical Specifications



WBSETCL

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Section I - NOTICE INVITING TENDER

DETAILED NOTICE INVITING TENDER

WEST BENGAL STATE ELECTRICITY TRANSMISSION COMPANY LIMITED
(A Govt. of West Bengal Enterprise)

Office of the The Chief Engineer: TR(O&M)
West Bengal State Electricity Transmission Company Limited,
10th Floor, Block-D, Vidyut Bhavan, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091

NOTICE INVITING TENDER

For

Bi-annual rate contract of operation & maintenance including Risk Protection
of HVW Emulsifier system at Jeerat & Arambag 400 KV Sub-station

[Open Domestic Competitive Bidding]

NIT NoCETR(O&M)/ TR-I-II/Arambag-Jeerat/ AMC Emulsifier/2016-17/07 dated: 09/03/2017

1.0 **West Bengal State Electricity Transmission Company Limited** herein referred to as **WBSETCL** invites e-tender (Submission of Bid through **online**) through local competitive bidding (LCB) from eligible bidders [single stage two envelope] for procurement of following Works and services:

*“Bi-annual rate contract of operation & maintenance including Risk Protection of
HVW Emulsifier system at Jeerat & Arambag 400 KV Sub-station”*

SCOPE OF WORK:

Operation Activity

- a) Three trained operating personnel's, one in each shift (i.e. morning, evening and night) shall be deployed to perform duty round the clock for maintaining the system in Auto-mode to ensure trouble free operation in case of emergency, warranting immediate operation of the system. One Supervisor shall also be deployed to supervise the activity of the operators who shall be available for 24 hours in the Jeerat substation premises. In case of fire hazard the operators shall arrange primary logistics to combat fire.
- b) The operators shall be competent enough to rectify minor fault developed in the system. In case of major fault, they should contact with their Supervisor and other authority immediately to combat the situation with due intimation of the problem to the Engineers at Control Room and the Assistant Engineer / Divisional Engineer (Maintenance).
- c) The operators shall maintain a Log Book round the clock for recording various readings, status of the installed equipments and entire system. The status of the entire system includes all major equipments, minor equipments, viz. valves, pressure switches, pressure gauges, level switch, level gauge, level indicators, etc. Any abnormal reading and problem

developed in the system shall be brought into the notice of the Supervisor and the Jr. Engineer at Control Room as well as to the Divisional Engineer, Jeerat Tr. Circle.

- d) The operators shall inspect all equipments in the pump room and switchyard at least once in each shift. This inspection should satisfy him about the health of the equipments and readiness for operation in time of need.
- e) The operators shall maintain recordings of the parameters, viz. water and air pressure where indicators are available as well as frequency of running of Air Compressor and Jockey Pump.
- f) The operators shall also maintain routine checking including monitoring the level in main water reservoir, level of lubricant in equipment and measurement of specific gravity and terminal voltage of the battery and all other things as may be necessary for efficient operation of HVW Emulsifier system.

B : Maintenance Activity:

- a) Daily checking of the plant will be required to maintain normal working condition of the Emulsifier system. It includes preventive maintenance and normal maintenance work.
- b) Observation of annunciation and identification and rectification of fault as indicated, if any.
- c) Inspection, at regular interval, of hose pipes along with its associated fittings and proper maintenance, so that those can be used at any point of time.
- d) Maintaining the Emulsifier Control Room and all equipments neat and clean.
- e) Monitoring of water level in the main reservoir and operation of water valve system, if required.
- f) Maintenance of Battery and Battery Charger.
- g) Yearly preventive maintenance of all the equipments, viz. control panel, pipelines, valves and associated system shall be undertaken with prior intimation and concurrence of the Divisional Engineer, Jeerat Tr. Circle, preferably in winter season. The shut down programmed shall be made in consultation with the DE. Total shut down of the system for maintenance work shall not be allowed unless considered absolutely essential.

C: Periodical Operation:

The contractor shall carry out the following periodical operation:

- a) Live demonstration (spray test), once in a month, with operation in auto-mode for checking the health of the system. The test shall be carried out with prior intimation to and in the presence of the Asst Engineer and the Divisional Engineer, JAO
- b) Operation of Diesel Engine fire pump, once in a week, for five minutes on manual mode. Normally the water should be discharged through hydrant points into water storage tank by fixing hosepipe. The operation should be carried out with prior intimation to the DE/AE-operation/ AE-Maintenance / DE-Maintenance, JAO
- c) Operation of Diesel Engine fire pumps in auto-mode, once in a month, for five minutes to conduct the spray test.
- d) The operators should also check at least one hydrant point daily for smooth discharge of water so that the system can be utilised at the time of need. They would also move immediately to the spot where the fire hazard occur and would arrange spraying of pressured water from the nearest hydrant point after informing the shift-in-charge of the control room

D : Risk Protection

1. The contractor will attend all breakdowns as and when required.
2. The contractor will attend and repair all the defects in all equipment arising out time to time because of normal wear and tear during contract period. The repairing of the equipment also includes the rewinding of motors.
3. The contractor will supply all consumable materials that will become necessary because of normal wear and tear including fuel and lubricants that are mainly diesel oil, Mobil/lubricant for Routine Test Operation of Diesel Engine driven fire pump. The consumable spares are mainly Electrical Fuses (HRC), Indication Lamps, CTC, CRS, all types of nuts, bolts, washers, small pipe fitting, rubber gaskets, diesel oil, Mobil/lubricant, grease and etc.
4. WBSSETCL will supply the spare parts of the installed equipment those are beyond repair and the cost of repair is above Rs.500/- (five hundred only). The contractor will supply non-consumable materials/spares free of cost up to RS.500/-. All the defective spares after replacement to be returned to our Store. The contractor will deploy the required Manpower and Labour (skilled/unskilled) for the Routine Maintenance/periodical Maintenance of the system.

Details of equipment are given hereunder:-

Jeerat

1. Equipment located in pump house

- a) Motor driven HVW spray pump, 100 HP, 270 cubic meter/hr.: 1 set
- b) Diesel Engine driven HVW spray pump, 100 HP, 270 cm./hr. : 1 set
- c) Jockey pump, 10 HP, and 10.8 cu.m. /hr.: 2 sets
- d) Air Compressor Unit 1.5 HP 2 sets
- e) HVW spray pump panel
- f) A.C. Distribution Panel Board – 3 (1 Main I/C, 1 Diesel Engine Control , 1 Jockey & Compressor Control)
- g) Annunciator Panel at pump room & Control Room
- h) Diesel Engine Control Panel
- i) Automatic feedback priming line with priming tank
- j) Diesel Tank
- k) Battery, 24V, 180AH: 2 sets
- l) Battery Charger, 24V, 30Amps: 2 sets
- m) Float-cum-Boost Charger
- n) Pipes, pressure switches, level switches, valves, level gauge, etc.

2. Equipment located in switchyard/ outside pump house

- a) Water Reservoir 2 numbers
- b) Hydrant pipe line with fitting, fixtures, valves and accessories
- c) Independent hydrant system
- d) Deluge valves
- e) Pressure switches, sluice valves, solenoid valves, float valves, globe valves, check valves, HV water spray nozzles with strainers, quartzite valve detectors, level switches, level gauge etc.
- f) All other equipments related to fire fighting system including fire extinguishers
- a) All other equipments related to fire fighting system including fire extinguishers

3. 250 kVA Capacity DG set in DG room and ACDB room

- a) 250 kVA Capacity Diesel Generator set :- 1 no
- b) Control Panel
- c) AMF Panel
- d) Battery and Battery Charger

Arambag

1. Equipment located in pump house

- a. Motor driven HVW spray pump, 150 kW, 410 cubic meter/hr.: 1 set
- b. Diesel Engine driven HVW spray pump, 160 BHP, 270 cm./hr. : 1 set
- c. Jockey pump, 15 kW, and 10.8 cu.m. /hr.: 2 sets
- d. Air Compressor Unit 3.7 kW: 2 sets
- e. HVW spray pump panel
- f. A.C. Distribution Panel Board
- g. Annunciator Panel (25 window)
- h. Diesel Engine Control Panel
- i. Pressurising Panel
- j. Automatic feedback priming line with priming tank
- k. Diesel Tank
- l. Battery, 24V, 150 AH: 2 sets
- m. Battery Charger, 24V, 30Amps: 2 sets
- n. Float-cum-Boost Charger
- o. Pipes, pressure switches, level switches, valves, level gauge, etc

2. Equipment located in switchyard/ outside pump house

- a. Hydro=pneumatic Tank
- b. Hydrant pipe line with fitting, fixtures, valves and accessories
- c. Compressed air pipe line with accessories
- d. Independent hydrant system
- e. Deluge valves
- f. Pressure switches, sluice valves, solenoid valves, float valves, globe valves, check valves, HV water spray nozzles with strainers, quartzite valve detectors, level switches, level gauge etc.
- g. All other equipments related to fire fighting system including fire extinguishers

3. 250 kVA Capacity DG set in DG room and ACDB room

- a. 250 kVA Capacity Diesel Generator set :- 1 no
- b. Control Panel
- c. AMF Panel
- d. Battery and Battery Charger

1.0 The work covered under this tender shall be but not limited to the following Detailed Specifications, scope of Works and services and terms and conditions thereof are given in the bidding documents, which are available at the online e-tendering portal <https://wbtenders.gov.in/> or <https://etender.wb.nic.in> as per the following schedule:

| Sl. No. | Particulars | Date & Time |
|---------|--|---|
| 1. | Date of uploading of N.I.T. & other Documents (online) (Publishing Date) | 09.03.2017 |
| 2. | Documents download/sell start date (Online) | 09.03.2017 06:00 P.M. |
| 3. | Last Date of submission of Pre Bid Queries at office address or through e-mail: cetr1955@gmail.com | 14.03.2017 by 5:00 PM |
| 4. | Pre Bid Meeting | 16.03.2017 at 11:00 AM |
| 5. | Bid submission start date (On line) | 18.03.2017 from 10:00 AM |
| 6. | Bid Submission closing (On line) | 23.03.2017 up to 1:00 PM |
| 7. | Last Date of submission of original copies for the cost of Tender Documents and cost of Earnest Money Deposit (Off line) | 24.03.2017 up to 01:00 PM |
| 8. | Bid opening date for Technical Proposals (Online) | 25.03.2016 at 1:00 PM |
| 9. | Date of uploading list for Technically Qualified Bidder (On line) | List to be uploaded after completion of evaluation. |
| 10. | Date for opening of Financial Proposal (Online) | To be intimated later |
| 11. | Cost of Bidding documents | Rs 5000/- |
| 12. | Bid security | Amount: Rs 33,120/- |

2.0 The intending bidder may download the tender documents from the website <http://wbtenders.gov.in>, <https://etender.wb.nic.in> directly with the help of Digital Signature Certificate. Necessary cost of tender documents (tender fees) amounting to **Rs. 5,000/- (Rupees five thousand) only** may be remitted through Bank Draft / Pay Order issued from any scheduled bank in favour of the “**West Bengal State Electricity Transmission Company Limited**”, payable at Kolkata and a scanned copy of the same to be uploaded. Necessary Earnest Money (EMD) may be remitted through Bank Draft /

Pay Order/Banker's cheque issued from any scheduled bank in favour of the "**West Bengal State Electricity Transmission Company Limited**", payable at Kolkata or Bank Guarantee from any scheduled Bank and also to be documented through e-filing. The original Bank Draft / Pay Order against tender fees and the original Bank Draft / Pay Order / Bank Guarantee against Earnest Money Deposit (EMD)(As statutory documents) should be submitted physically (Offline) to the Office of The Chief Engineer:TR(O&M), WBSETCL under sealed cover on or before **24.03.2017 at 01:00 PM**.

- 3.0 All bids must be supported by **bid security (EMD)** for an amount of Rs **33,120/- (Rupees Thirty Three Thousand One Hundred and Twenty only)** in the form of Demand Draft /pay order /Banker's cheque drawn in favour of "**West Bengal State Electricity Transmission Company Limited**" from any scheduled commercial bank, payable at Kolkata , or a Bank Guarantee from any scheduled commercial bank favouring WBSETCL which shall remain valid for a period of two hundred and forty (240) days from the next day of techno-commercial bid opening date with a further claim period of ninety (90) days. Bid shall be rejected by the WBSETCL if the bidder fails to submit original Bank Guarantee /Demand Draft /Pay order against tender fees & Earnest Money Deposit (EMD) physically to the office of the Chief Engineer, TR(O&M) Department, WBSETCL under sealed cover on or before the scheduled date & time as specified above.
- 4.0 Issuance of bidding documents shall not automatically construe that the bidder fulfils the Qualifying Requirements which shall be determined during bid evaluation based on data/documents submitted by the bidder. No request for sending the bid documents by post or by courier service shall be entertained. Bid documents are not transferable.
- 5.0 All bids shall remain valid up to a minimum period of [ninety days] 90 days from the next day of price bid opening date.
- 6.0 All bids must be accompanied by bid security for the amount and in the form specified above. Bids not accompanied with an acceptable bid security in a separate cover or bids accompanied with bid security of inadequate value shall be rejected.

7.0 Qualifying Requirements for bidders:

7.1. Following shall be the qualification requirements:

Technical

- a. The bidder should have the past experience in operation and maintenance of HVW Emulsifier and hydrant system in any power utility in the state of West Bengal on the date of issuance of NIT.

OR

- b. The bidder must have successfully commissioned Fire Fighting equipments/ hydrant system in any Indian utility on the date of issuance of NIT.

Financial

- a. The Minimum Average Annual Turnover (MAAT) of the Bidder for the best 3 (three) years out of the last 5 (five) financial years for which the audited accounts are available shall not be less than Rs. 24,84,000/(Rupees Twenty Four lakh Eighty Four Thousand only)..
- b. Net worth at the end of last financial year shall be positive.
- c. Bidder shall have Liquid Asset (L.A) and/or evidence of access to or availability of credit facilities of equivalent amount not less than Rs 4,14,000/- (Rupees Four lakh Fourteen Thousand only).

7.2. The bidder shall furnish, as part of his techno-commercial bid, documents establishing the bidder's qualifications. In particular, the following documents need to be submitted by the bidder:

- a. List of contracts for similar Works and services executed in the past three years with copies of LOAs and execution status of each contract supported by client's certificate.
- b. Audited Annual Accounts of the company for the last three (3) years (in case of companies)

OR

IT Return duly acknowledged by the tax department for the last three (3) years (in case of bidders other than companies)

- c. Attested Copies of *Sales Tax/ VAT registration certificate, Professional Tax Clearance Certificate, E.S.I and E.P.F registration numbers, PAN and/or TAN Card*
- d. Excise and Service Tax registration certificate.

OR

In case the bidder is a small service provider in terms of Finance Act 1994, then he has to furnish one certificate along with his Bid Documents in the following manner:- "That our Firm is a small Service Provider in terms of the Finance Act 1994 & we need not be registered with the Superintendent of Central Excise under Service Tax provision

7.3. In addition to above, the bidder shall also be required to meet the eligibility conditions and submit a declaration as per Annexure: 5 of Section VI-A of the bidding documents

7.4. Notwithstanding anything stated herein, WBSETCL reserves the right to inquire and review the bidder's capability and capacity to execute the Works and services

8.0 WBSETCL reserves the right to accept or reject any bid partly or fully or cancel the bidding process without assigning any reasons therefor and in such case no bidder shall have any claim arising out of such action.

9.0 The purpose of the pre-bid meeting will be to clarify the scope of supply, and any issues regarding the bidding documents and the Technical Specifications, if raised at that stage by the bidders. The WBSETCL shall not be under any obligation to entertain /respond to suggestions made or to incorporate modifications sought for by the prospective bidders during the pre-bid meeting or thereafter

10.0 **Completion Period:-**The total contract shall have to be completed by 24 months from the date of commencement of work as specified in LOA. The work shall have to be completed by clear 24 months from the date of placement of the LOA/date of written work to commence work

11.0 The WBSETCL reserves the right to split (maximum up to 50% subject to price matching with L1 bidder) the total quantity among more than one bidder

12.0 Address for seeking any clarifications on the bid documents :

The Chief Engineer: Tr (O&M), West Bengal State Electricity Transmission Company Limited ,10th Floor, "D" Block, Block -DJ, Bidyut Bhavan, Sector -II, Salt Lake City, Kolkata - 700091.

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(A.Ghosal)
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