



BEML LIMITED

(A Govt. of India Undertaking)

Regional Office

PB No. 5, Jingurdha Colliery

Singrauli- (MP) 486889

Phone: 07805-272668

Fax: 07805-272282

Ref. No: BEML/MS-1/100/6300032315

Date: 20 /03/2020

Sub: E-Tender BID invitation (Two bid system) through BEML SRM for repair of Auxiliary Power Transformer (250 KVA, Dry Type, 6.6 KV/415V Dyn11) of 295HD Electric Rope Shovel (20 Cum Rope Shovel) running under MARC at Jayant Project.

BEML Ltd., a Govt. of India Mini Ratna Public Sector Company under Ministry of Defence is planning for repair of Auxiliary Power Transformer (250 KVA, Dry Type, 6.6 KV/415V, Dyn11) of 295HD Electric Rope Shovel (20 Cum Rope Shovel) running under MARC at Jayant Project. Firm may download the tender documents and submit the Bid online through BEML SRM platform only.

Please go through the instruction and submit your bid in SRM System complete in all respects **before 14.00 Hrs. on date 27.03.2020**

Thanking you,

Yours faithfully,

For BEML LIMITED

Regional Manager



BEML Limited
(A Govt. of India Undertaking)
Regional Office
PB No. 5, Jingurdha Colliery
Singrauli- (MP) 486889

Ph: 07805-272668
Fax: 07805-2727282
E-mail: singrauli@rm.beml.co.in

TENDER DOCUMENT

E-Tender BID invitation (Two bid system) through BEML SRM for repair of Auxiliary Power Transformer (250 KVA, Dry Type, 6.6 KV/415 V Dyn11) of 295HD Electric Rope Shovel (20 Cum Rope Shovel) running under MARC at Jayant Project.

CLOSING DATE & TIME

27.03.20 at 14.00 Hrs.

Date of Technical Opening of Bid & Time

27.03.20 at 16.00 Hrs.

This Tender Document contains – 15 Pages

NOTICE INVITING TENDERS

Tender in 02 (Two) bid system, e-mode through BEML SRM platform are invited for repair of Auxiliary Power Transformer with scope of work as follows:

Scope of work:

- 1) Manufacturing and Replacement of complete HV coils (03 coils of 03 phases). Failed coil is to taken as sample for manufacturing of new coil along with no. of turns.
- 2) Manufacturing and Replacement of complete LV coils (03 coils of 03 phases). Failed coil is to taken as sample for manufacturing of new coil along with no. of turns
- 3) Cast Resin moulding of both LT & HT coils.
- 4) Terminal Connections.
- 5) Complete assy of HT & LT coils of all three phases in transformer body with necessary insulation material and fasteners.
- 6) Installation and Testing of Transformer on the shovel.
- 7) For complete technical details of Auxiliary power transformer please find attached the name plate details at page no 15.

Last date & time: **27.03.2020 at 14.00 HRS.** for online submission of tender documents.

Note:-

1. EMD of Rs.5,000/- to be paid in the form of RTGS/NEFT/Online money transfer only to our BEML Account having account number **as follows:-**
Account number: 10773219053
Branch: SBI MORWA
IFSC Code: SBIN0003767
MICR Code: 486002516
2. Scan copies of transaction receipt to be uploaded in e-tender technical bid. EMD will be refunded / to be adjusted later.
3. Contract will be governed by all statutory requirements amended from time to time and General terms & conditions of BEML Ltd.
4. BEML Ltd reserves the right to reject any or all the tenders without assigning any reasons whatsoever. Decision of BEML Ltd in this regard shall be final & binding to all parties.

For **BEML Limited**

Regional Manager

'INSTRUCTION TO BIDDER'

- 01) Bid to be submitted through electronic mode only on BEML SRM platform.
- 02) Bidder is required to go through instructions carefully and submit the bid as required. Clarifications if any may please be obtained from Purchase Department (SRM cell) on any working day.
- 03) Tender is in 02 (Two) bid system through e-mode on SRM platform (system).

Please note that as per the directives from Ministry of Defence, Class 3 Digital Signature with Encryption facility is mandatory for submission of bid on our e-Procurement system. System will not accept Class 1 or Class 2 Digital Signatures.

- 04) Please note that activation of the Digital Signature Token in our system happens after 12.00 midnight from the Start Date of the validity, i.e. the next date after the Start Date of the validity. Hence in case you are getting a new Class 3 Digital Signature Token or arranging renewal of the existing Class 3 Digital Signature Token, it is advisable to get the same done at least two days before the due-date of the tender.

05) In case of any queries on Digital Signature or submission of bid in the system, please contact BEML SRM Team on 080-22963269, 080-22963141 or e-mail to admin.srm@beml.co.in.

'Submission of Bid'

Please upload all the bid documents in the RFX Information —————> Notes and Attachments (sub header) —————> C-Folder in the system.

Following documents should be uploaded in C-Folder on SRM Platform:

- Scanned copy of the entire tender document duly signed with firm's stamp by the bidder. Any alteration, erasure or over-writing will render the tender invalid. Alteration neatly carried out and duly attested over with the full signature of the bidder however is permitted.
- Scanned copy of payment transfer slips towards EMD.
- The bidder should have a valid bank account number and shall provide the account details in the bid. Payment to the contractor will be made either by crossed cheque or RTGS mode.
- Bidder should have valid PAN Number & GST Registration and the copies of the same to be attached.
- Income Tax will be deducted at source as per the Income Tax prevailing rules.

'Submission of Bid'

Please quote the price details in '**Item Data**' in the system only against the respective line items indicated in the bid invitation. Firm has to select applicable taxes from the list of price conditions while quoting in SRM Platform. Please note that price quoted will be treated as excluding taxes (basic price).

Tender Terms & Conditions :-

The bidder shall accept all the terms and conditions of the tender.

- a. Before making the offer, the bidder is advised to carefully go through the terms and conditions, which forms, part of the agreement. For any further details required, Tender issuing officer of BEML Ltd., may be contacted in person or through telephone nos. **07805-272668** or email **singrauli@rm.beml.co.in**
- b. BEML Ltd reserves the right to assess the capacity and capability of the party for pre-qualification. The company also reserves the right to accept or reject any or all the tenders or any part thereof at any stage of process without assigning any reason whatsoever. The company has no obligation to accept the lowest tender offer. Offer of the Bidder if prima-facie found not comparable with the quantum of work envisaged and the bid is an effort to be L1, then the offer is liable to be rejected. Decision of BEML LTD. in this regard shall be final and binding.
- c. The bidder is required to enter the price for all the items listed in the 'Item Data' in SRM System. The price should be quoted for each item after careful study of the actual job requirement so that, in case the contract being awarded, contractor should not express any difficulties in execution of the contract.
- d. In the event of furnishing false information / incomplete information, the offer(s) shall be summarily rejected.
- e. BEML Ltd reserves the right to reject bid without assigning any reasons thereof what so ever.
- f. BEML Ltd shall not be responsible for any acts and omissions of the staff of bidders and liabilities arising out of the acts and omissions as such will be borne by the bidders.

1. SCOPE OF WORK:-

- 1) Manufacturing and Replacement of complete HV coils (03 coils of 03 phases). Failed coil is to taken as sample for manufacturing of new coil along with no. of turns.
- 2) Manufacturing and Replacement of complete LV coils (03 coils of 03 phases). Failed coil is to taken as sample for manufacturing of new coil along with no. of turns
- 3) Cast Resin moulding of both LT & HT coils.
- 4) Terminal Connections.
- 5) Complete assy of HT & LT coils of all three phases in transformer body with necessary insulation material and fasteners.
- 6) Installation and Testing of Transformer on the shovel.
- 7) For complete technical details of Auxiliary power transformer please find attached the name plate details at page no 15.

2. QUALIFICATION CRITERIA:-

The bidder shall submit relevant records in proof of complying with qualification criterion conditions as follows:-

- a. The bidder should have previous experience in Repair of Transformers of 100KVA & above.
- b. The bidder should have a valid bank account number and shall provide the account details Payment to the vendor will be made either by crossed cheque or RTGS mode.
- c. Vendor should have valid PAN Number, GST registration.
- d. Income Tax will be deducted at source as per the Income Tax prevailing rules.

3. GENERAL TERMS & CONDITIONS:-

- a) Earnest Money Deposit (EMD) as indicated in the NIT (Notice Inviting Tender) is to be paid as per the 'INSTRUCTION TO BIDDER' given in page 3 and scanned copies of the payment transfer slip is to be uploaded along with the Bid documents in the system. EMD by the Bidder will be forfeited if;
 - i. After opening the tender, the tenderer revokes his tender within the validity period of the contract or increases his earlier quoted rates.
 - ii. The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / Contractor is silent in this regard then within 15 days after award of contract.
- b) EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work to the successfully tenderer. EMD shall not carry any interest.

- c) BEML Ltd reserves the right to appropriate the whole or any part of the amount of the security deposit without prejudice to other claims against the vendor for losses suffered by BEML due to failures on the part of the vendor or due to termination of vendor becoming disqualified because of liquidation and other reasons. Such losses, damages, charges, expenses or cost, as assumed by BEML Ltd., shall be final and binding on the vendor and shall not be called into question.
- d) BEML Ltd reserves the right to have parallel / similar contract with any number of vendors.
- e) The tender document shall be deemed to form an integral part of the contract to be entered for this work.
- f) Disputes if any arising between the company and the supplier in connection with this work order or any other matters connected herewith that same referred to a sole arbitrator to be appointed by BEML. The arbitration / proceedings shall be in accordance with provisions of Indian Arbitration and conciliation Act 1996 and Rules framed there under. The place of arbitration shall be at Bangalore or any other place mutually decided by and between the company and the supplier and all arbitration proceedings shall be conducted in English language. The award of the sole arbitrator shall be final and binding on all the parties.
- j) **In case of any suit or other legal proceedings arising under or relating to this contract, the courts at Singrauli shall only have jurisdiction.**

4. OTHER TERMS & CONDITIONS:-

- a. Firm should have the previous experience of Repair transformers of 100 KVA & above.
- b. Payment of GST, deduction of income tax and any other taxes are as per the standard rules & regulations.
- c. Once the price is fixed and the contractor is instructed to carry out the job, no further negotiations on the price/procedures/rules & regulations are permitted.
- d. All the repairs (both material & workmanship) will have a warranty period of 01 year or 5000 hrs from the date of fitment on the shovel whichever earlier.
- e. To and Fro transportation and transit insurance will be in firms account.
- f. 90% Payment will be made within 21days from the date of submission on invoice after receipt of repaired transformer at our stores and balance 10% after the successful completion of the warranty period.

Tender Document

(Techno-commercial – Response to be submitted)

1.0 Title of Work:

Repair of Auxiliary Power Transformer (250 KVA, Dry Type, 6.6 KV/415V Dyn11) of 295HD Electric Rope Shovel (20 Cum Rope Shovel) running under MARC at Jayant Project.

1.1 CONTRACTOR

Shall mean the Firm/ Repairer whose offer has been accepted by BEML and the term includes the contractor's authorized representative, successors, heirs, assignee, executors and administrators, unless excluded by the contract.

1.2 SUB-CONTRACTOR

Means the person/firm named in the contract/ Work order for executing the work or any persons/firm to whom any part of the contract /work order has been given by the contractor, subject to the prior consent given by BEML in writing and the term includes the sub-contractors authorised representative, successors and assignees.

1.3 PROJECT – IN –CHARGE.

Means the person appointed for the duties set forth in the contract/ work order on its behalf and whose authority is notified, in writing to the contractor by BEML.

1.4 CONTRACT

Means written agreement between BEML AND CONTRACTOR/FIRM/REPAIRER made from time to time.

1.5 REPAIR VALUE

Means the mutually agreed price between BEML and the Contractor for the repair work as per the Scope of work.

1.6 WORKMEN

Personnel engaged by contractor for execution of the Contract, to include electricians, Fitters, helpers, Supervisory & the administrative staff and / or any other person(s) deployed by that Contractor for execution of this contract.

1.7 WARRANTY PERIOD

01 year from the date of receipt of transformer or 5000 working hrs after fitment on the shovel whichever earlier.

1.8 EQUIPMENT

20Cu.M OR 295HD Rope Shovel

2.0 SCOPE OF WORK BY THE FIRM

2.1 Repair of Auxiliary Power Transformer (250 KVA, Dry Type, 6.6 KV/415V Dyn11) of 295HD Electric Rope Shovel (20 Cum Rope Shovel) running under MARC at Jayant Project.

2.2 MANPOWER: Adequate skilled, semi skilled and unskilled man power to execute the project as per time schedule indicated in the contract which include supervisory, non-supervisory, Qualified Electrical staff, Qualified Fitters, Painter etc.

The contractor shall deploy the above manpower to carry out the complete work in one/two/three shifts as required. They shall not be under aged and shall meet the prevailing Labour Laws/Act/Regulations/PF rules.

2.3 SAFETY AND SAFETY EQUIPMENTS.

Knowledge of Safety rules and regulations and ensuring their implementations and the availability of Safety Equipments, like SAFETY GLOVES, SAFETY SHOES, SAFETY GOGGLES, SAFETY CAPS (HELMETS), FIRST AID BOXES.

The contractor shall adhere to various other Safety aspects as required.

2.4 SECURITY

It shall be the responsibility of the Contractor to safeguard, safe handling, safe protection of the Transformer thus taken for repair from theft, damage, vandalism etc., including transportation and transit till they are repaired/ inspected and handed over to BEML.

2.5 INSURANCE

It shall be the Contractors responsibility to arrange for insurance cover for all the personnel engaged in repair job/ commissioning work and related Equipments. The insurance should also cover third party liabilities.

3.0 SCHEDULE/ TIME PERIOD FOR REPAIR OF AUXILLARY POWER TRANSFORMER:

Transformer to be repaired within 04 weeks from the date of issue of work order or handing over of Transformer whichever is later.

4.0 SCOPE OF WORK BY BEML: Nil

5.0 CRANAGE.

The contractor shall arrange his own crane to lift/rotate and position the Transformers during repair work.

6.0 TERMS AND CONDITIONS:

6.1 TECHNICAL TERMS

6.1.1 Warranty Certificate to be provided.

6.1.2 INSPECTION AND TESTS.

- (1) The inspection and Tests for acceptance of the repair work will be:
- a) Winding & insulation (class F) material conformance standards.
 - b) Megger values both on Primary & Secondary windings.
 - c) All type of surge tests @ 12KV, impulse tests, etc..

(2) Inspection Authority.

Project-in-Charge (BEML) of Shovel Maintenance, Singrauli is authorized to certify the repair Work carried out and all materials used and process adopted during Repair.

6.2 COMMERCIAL TERMS

6.2.1 WARRANTY PERIOD

01 year from the date of receipt of transformer or 5000 working hrs after fitment on the shovel whichever earlier. Any repair of the Transformer for failure during warranty period shall be carried out free of cost.

If the contractor/Firm fails to remedy the defects, BEML is entitled to remedy the defect or damage or order the remedies through third parties on contractors account at actual cost for such work. This shall, however not relieve contractor of his obligations regarding warranty.

6.2.2 Delivery schedule and Penalty:

Transformer to be repaired within 04 weeks from the date of issue of work order or handing over of Transformer whichever is later.

For every week of delay, over and above the allowed as in above, a penalty of 0.5% of the order value per week shall be levied, subject to a maximum of 5% of the value of the repair cost.

6.2.3 PAYMENT TERMS AND CONDITION:

i) 90% of order value subject to acceptance certificate issued by Project-in-charge (BEML) for having completed the repair work. Specifying all details such as time period specs etc. Balance 10% payment after completion of warranty period of 01 year from the date of receipt of transformer or 5000 working hrs after fitment on the shovel whichever earlier

6.3 GENERAL TERMS

6.3.1 On receipt of the contract/work order, the contractor shall register as per WORKS CONTRACT ACT or any other prevailing rules in that state, with the concerned state government to comply with the labour laws and rules, mobilize required man power (Supervisory and Non – Supervisory) and other infrastructure as required.

6.3.2 The contractor shall carry out repair job of the Transformers strictly adhering to STANDARDS and also as per the advice from time to time by

Project in-charge (BEML). Ensure full co-operation for testing of Transformers.

Return to BEML in safe condition, the repaired Transformers, all documents like drawings, specifications and any unused old materials (if any) issued by BEML after the repair work/ contract period or as and when demanded.

6.3.3 CONFIDENTIAL CLAUSE.

The contractor shall use all technical information, drawings and other advices / information provided by BEML only for execution of this contract. The contractor shall not pass on any data, material or information or drawings to other agency or use for any other purpose.

6.3.4 WAGES FOR WORKMEN AND WORKMEN COMPENSATION

(a) WAGES FOR WORKMEN.

It will be the obligation of the contractor to pay reasonable wages to the workmen employed by them. However, such wages shall not be less than the wages payable under the Minimum Wages Act, 1948 or the wages notified by the respective State/central Governments who are the concerned authorities for notifying the minimum wages payable to the workmen possessing different skills and who are engaged in executing the contract .The contractor shall also be bound by the statutory provisions of the Contract Labour Regulation and Abolition Act, Apprentices Act, PSU Act, PF ACT etc., concerning the employment of the Labour by the contractor. All the obligations under the different Act provisions shall be that of the contractor and the contractor shall indemnify BEML against any or all claims in this regard. The contractor shall also furnish the documentary evidence regarding the wages paid, correctness of the wages paid, PF and ESI payment in respect of the labour engaged for the purpose of executing the contract.

These reports shall be submitted to the Project-in-Charge (BEML). It shall also be the responsibility of the contractor to obtain statutory approvals as may be required in this behalf and BEML will in no way responsible for this action and BEML will be discharged of and indemnified against all such responsibilities.

(b) WORKMEN COMPENSATION

It is also agreed that BEML shall not be liable for any compensation to be payable in respect of any workmen employed by the contractor and it shall be the sole responsibility of the contractor for payment of compensation if any, arising during the course of execution of the contract. For this purpose, the contractor shall indemnify BEML during the currency of the contract against all such claims made by any person(s) employed by the contractor in execution of the contract.

BEML shall not be responsible for providing employment to contractor's labourers and or payment of any retrenchment benefits, and it shall be the duty and responsibility of the contractor to pay all terminal benefits at the time of completion of contract and shall produce satisfactory proof for having paid so, before the final bill is settled.

6.3.5 SUSPENSION OF WORK

The contractor shall on written order of the Project-in-charge (BEML), suspend the progress of the works or any part thereof for such time or times and in such manner as the Project-in-Charge (BEML) may consider necessary and shall during such suspension, properly protect and secure the work so far, as is necessary in his opinion.

6.3.6 DELAYS IN THE CONTRACTORS PERFORMANCE

The TIME SCHEDULE for REPAIR of the two Transformers as stipulated in this contract Clause Number and amendment thereof shall be the ESSENCE OF THE CONTRACT.

Except as provided under force majeure clause a delay by the contractor in the performance of its delivery obligations shall render the contractor liable to the imposition of penalty as per the clause No 6.2.2.

6.3.7 ASSIGNMENT SUB-LETTING AND SUB-CONTRACTING

The contractor shall not assign the contract either wholly or part thereof or any benefit or interest therein or there under without the prior written approval of BEML.

The contractor shall not sublet the whole part of the contract. However,

where otherwise provided in the contract/work order the contractor may sublet a part of the contract with prior approval of BEML. But such an approval if given shall not relieve the contractor of any of the liabilities and obligations under the contract and he shall be responsible for the acts defaults and neglects of the sub-contractor, his agents or workmen.

6.3.8 INDEMNITY

The contractor shall indemnify BEML at all times against all claims made by the contractors personnel and third parties in respect of any injuries accidents or any other claim in the form of compensation.

7.0 FORCE MAJEURE

The contractor shall not be responsible for any delay in execution of this contract if the delay is caused as a result of Force Majeure.

“Force Majeure” means an event beyond the control of the Contractor, such as Floods, wars or revolutions, epidemics, strikes (caused by other than contractors own employees/ workmen), terrorist attack etc.

7.1 ARBITRATION CLAUSE

If BEML and the contractor are not able to resolve any contract dispute amicably within a reasonable period of time, such disputes shall be referred to a sole Arbitrator to be appointed by BEML and the proceedings before the Arbitrator shall be governed by the provisions of Arbitrations and conciliation Act 1996, in which event the Arbitration proceedings shall be held at Bangalore and the Arbitrator shall be required to give a reasoned award. Courts in Bangalore alone shall have jurisdiction in the matter.

7.2 APPLICABLE LAW

The contract shall be interpreted in accordance with the laws prevailing in India.

7.3 JURISDICTION OF COURTS

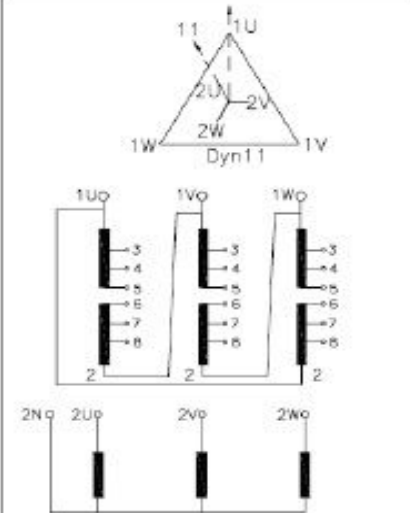
The courts in Singrauli only will have jurisdiction.

REGIONAL MANAGER
SINGRAULI

SIEMENS

Technical data:

DRY TYPE TRANSFORMER	
CUSTOMER	M/s.- Siemens LTD
ORDER/CONTRACT No	
YEAR OF MANUFACTURE	2008
TRANSFORMER SRL No	
KVA	250
VOLTS AT NO LOAD	HV 6600 LV 415
AMPERES	HV 21.87 LV 347.81
PHASES	3
FREQUENCY	50 Hz
INSULATION CLASS	"F"
MAX AMB TEMP	50°C
MAX TEMP RISE IN WDG	90°C ABOVE AMB
WINDING MATERIAL	COPPER.
INSULATION LEVEL	LI 60 AC 20 / AC 3
VECTOR GROUP	Dyn11
TYPE OF COOLING	AN
REF. STD	IS:2026 IS:11171
TOTAL Wt Kg	1500 Kg
IMPEDANCE	



POSN NO	HV LEAD CONNECTION	HV VOLTS	HV AMPS	LV VOLTS
1	6-5	6930	20.83	415
2	5-7	6765	21.34	
3	7-4	6600	21.87	
4	4-8	6435	22.43	
5	8-3	6270	23.02	

Standard Fittings and Accessories:

S. No	Description	QTY.
1	Rating and terminal marking plate	1
2	Earthing Terminals	2
3	Lifting Lugs	4
4	PT 100 RTDs with WTI Scanner	6
5	Bi-directional Flat Rollers	4
6	Enclosure (IP23)	N/A