

**PURCHASE ENQUIRY**

To M/s	Our E-mail : <a href="mailto:smb@bhelpswr.co.in">smb@bhelpswr.co.in</a>	
	<b>ENQUIRY No :</b>	<b>XI045 E</b>
	<b>ENQ.DATE</b>	<b>24.11.2011</b>
	<b>DUE DATE</b>	<b>08.12.2011</b>

Dear sir,

Kindly submit your sealed quotation by Speed Post / Registered Post / Courier / Air Mail in **two bids viz. (1) Technical cum Commercial Bid & (2) Price Bid** for the material indicated below confirming acceptance to the terms and conditions enclosed, so as to reach our office on or before **03.00 PM** on the due date. Quotation may be sent by Fax only if asked so by BHEL / with prior permission of BHEL.

S. No	Description of Work	Time Schedule	Place
01	Repairing and overhauling of ISUZU make 6SD1T engine fitted on Link Belt LS 248 crane of 180 MT capacity as per Annexure - I & Annexure -II	20 days	BHEL SITE OFFICE 2X600 MW DBPL(DAINIK BASKAR POWER LTD) NEAR VILL.BARADARSHA, DIST.JANJGIR – CHAMPA CHATTISGARH.

**A) GENERAL TERMS AND CONDITIONS OF CONTRACT**

Cl. No.	DESCRIPTION
01	Each tender should be sent in a double cover, inner cover should be sealed with tenderer's distinctive seal. The outer cover should bear the address of this office and super scribed with correct Enquiry No. and Due Date. Tender should be free from CORRECTION AND ERASURES. Corrections, if any must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount in figures and words, amount quoted in words shall prevail.
02	Technical cum Commercial bid will be opened at <b>4:30 PM</b> on Due Date. The Technical cum Commercial bid should accompany copy of documents like authorized dealership certificate, earlier supply order details of similar equipment and their performance feedback from customers, company profile and present status, product catalogue of the models offered, technical specifications of the product, commercial Terms & Conditions and other relevant documents etc.
03	Price bid of technically accepted bidders only will be opened. No revision of prices will be entertained after Tenders are opened, unless mentioned in our enquiry / asked so by BHEL.
04	The purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any tender in part or full without assigning any reason whatsoever.
05	Late tenders (received after Due Date) will be rejected.
06	Price quoted shall be valid for 60 days from the date of opening.
07	Price shall be quoted as per enclosed 'Price Format' only. Quotations not accompanying filled in 'Price Format' are likely to be rejected. Please fill in all the columns of all formats

**BHARAT HEAVY ELECTRICALS LIMITED**  
**PS-WR:HQ:NAGPUR**

ENQUIRY NO. XI045 E

DT.24.11.2011

DUE DATE: 08.12.2011

08	The price quoted should be as applicable to DGS & D (Govt. of India) and other Govt. Organizations. In case DGS & D rate / Running Contract is not existing, but a contract is in vogue with any BHEL Unit, reference of the same shall be furnished and same may be applicable to this contract.
09	SECURITY DEPOSIT: The supplier shall have to furnish Security Deposit (Cash/DD/Bank Guarantee from a Scheduled Bank) if so specified in the tender under Special Terms & Conditions.
10	GUARANTEE WARRANTY: The materials/works done shall be warranted for design material and workmanship and also for performance warranty as specially stipulated by the purchaser in the order in its annexure.
11	INSURANCE: Wherever specifically agreed to and directed, the supplier will insure the goods for all transit risks up to delivery of the goods at the final destination. In all other cases supplier must furnish particulars of dispatch for each consignment immediately after the dispatch of goods. Failure to do this will make the supplier responsible for making good any loss, which otherwise might have been recovered from underwriters.
12	DELIVERY FAILURE, TERMINATION & LIQUIDATED DAMAGE: The parties hereto agree that the timely dispatch/delivery and completion of the other schedules as stipulated in order/contract shall be the essence of the Order/Contract. If the seller/contractor fails to complete the dispatch/ delivery and other schedules within the time period stipulated in the order/contract, or within any extension of time granted by the purchaser, it shall be lawful for the purchaser to recover damages for the breach of order/contract without prejudice to any other rights and/or remedies provided for, in order/contract and hereunder. The purchaser reserves the right to recover from the Seller/Contractor, as agreed liquidated damages and <b>not by way of penalty</b> , a sum equivalent to half percent {½% of the total contract price per week part thereof, subject to a maximum of ten percent @ 10%} of the total contract price excluding elements of taxes, duties and freight, if seller/contractor has failed to deliver any part of the goods within the period stipulated in the Order/Contract. The purchaser reserves the right to purchase from elsewhere on account of and at the risk and cost of the seller /contractor without notice to the seller /contractor of goods not so delivered or their equivalent , without canceling the order/contract in respect of the goods not yet due for delivery. The purchaser reserves the right to cancel the order/contract or a portion thereof for the goods not so delivered at the risk and cost of the seller/contractor and the seller/contractor shall be liable to the purchaser for any excess costs thereof.
13	<b>RISK PURCHASE</b> : In the event the supplier has failed to complete whole of job or any part within the time stipulated, the best and the nearest available substitute thereof may be arranged by purchaser from elsewhere at the risk and the cost of the seller. The purchaser at his option will be entitled to terminate the contract and contractor shall be liable for any loss which the purchaser may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in clause 20 above.
14	Purchaser reserves its right to the Public Enterprises price preference facilities as admissible under the Govt. of India policy from time to time.
15	This order or any part thereof shall not be sub-contracted without the purchaser's consent.
16	METRIC SYSTEM: Supplier is requested to indicate metric system measurements in all documents.
17	INDEMNITY: The Seller shall indemnify the Purchaser against any claim due to any breach of patent, negligence, defective material or injury to seller or his agent.
18	In the event of any reduction in the price, due to change of Govt. duties after award to the work and before delivery commencement, purchaser is entitled to such reduction and may negotiate fresh price at its discretion.
19	GENERAL: The purchaser reserves the right to split up the tender and place orders for individual item on different suppliers and also increase or decrease the quantity.
20	DISPUTES & ARBITRATION: All cases of disputes will be resolved according to the Indian Arbitration Act 1940
21	FORCE MAJEUR: Acts of God, Acts of Government, War, Sabotage, Riots, Civil commotion, Police action, Revolution, Natural Calamities, Epidemic and other similar causes over which the supplier has no control, will amount to Force Majeure. Delay attributable to Force Majeure will be condoned; however the onus of establishing the reason of delay lies with the Supplier.
22	In case of any contradictions between General and special terms and conditions, the provisions in Special Terms & Conditions will prevail.

**BHARAT HEAVY ELECTRICALS LIMITED**  
**PS-WR:HQ:NAGPUR**

ENQUIRY NO.XI045 E

DT.24.11.11

DUE DATE: 08.12.11

**B) SPECIAL TERMS AND CONDITIONS OF CONTRACT**

CI No.	Description
01	Bidder should have past experience in repairing & overhauling of at least diesel engine of 75 BHP or more capacity in last three years. Bidder should submit self attested copy of work order / Annual Rate Contract and proof of work completion along with technical bid.
02	Tender should be submitted in two parts (1) technical bid comprising Commercial Terms and conditions as enclosed relevant documents for past experience. And (2) Price bid in prescribed price format in a separate sealed envelope.
03	TAXES AND DUTIES. Applicable Taxes & duties shall be borne by contractor; however Service tax shall be paid extra by BHEL as per applicable rate. Quoted rate shall be exclusive of service tax. Bidder has to indicate the presently applicable service tax rate. Bidder shall submit the proof of registration of service tax with the appropriate statutory authority.
04	Successful contractor shall submit security deposit for a value of 10 % on contract value in the form of demand draft of any nationalized bank in favour of "BHARAT HEAVY ELECTRICAL LIMITED" payable at Nagpur before start of work.
05	Payment Terms: 100% within 30 days of work completion.
06	Bidder to submit "Un Priced Price format" duly filled and signed along with the technical bid. The price should be quoted as specified in the price format with split up details.
07	The contractor shall mobilize his skilled manpower immediately on the intimation/placement of order by the BHEL. The contractor shall ensure the response time is contained within five days.
08	In case bidder fails to complete the work as per time schedule of this tender, LD shall be levied as per clause no.20 of GCC of this tender specification. (0.5% per one week of delay on contract value)
09	BHEL reserves the right to reject or accept the tender without assigning any reasons whatsoever.
10	The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site (www.bhel.com ---> Tender Notification ---> List of Banned Firms )
11	This is to inform you that BHEL has switched on to payment through Electronic Fund Transfer (EFT)/ RTGS. The following details are to be furnished by you pertaining to your Bank Accounts where proceeds will be transferred through our Banker: <ol style="list-style-type: none"><li>1. Name of the Company</li><li>2. Name of Bank</li><li>3. Name of Bank Branch &amp; Branch Code</li><li>4. City</li><li>5. Account Number</li><li>6. Account type</li><li>7. IFSC code of the Bank Branch</li><li>8. MICR Code of the Bank Branch</li></ol>

Yours faithfully,  
For Bharat Heavy Electricals Ltd.

ENGINEER (PURCHASE)

**TENDER SPECIFICATION NO: XI045 E Dt 24.11.11**

**CERTIFICATE OF NO DEVIATION**

I/WE, M/s .....  
HEREBY CERTIFY THAT NOTWITHSTANDING ANY CONTRARY INDICATIONS/ CONDITIONS ELSEWHERE IN OUR OFFER DOCUMENTS, I/WE HAVE NEITHER SET ANY TERMS AND CONDITIONS NOR THERE IS ANY DEVIATION TAKEN FROM THE CONDITIONS OF BHEL'S TENDER SPECIFICATIONS, EITHER TECHNICAL OR COMMERCIAL, AND I/WE AGREE TO ALL THE TERMS AND CONDITIONS MENTIONED IN BHEL'S TENDER SPECIFICATION WITH ASSOCIATED AMENDMENTS AND CLARIFICATIONS.

Date:

Signature of the Bidder

<b>PRICE FORMAT</b>
---------------------

**BHARAT HEAVY ELECTRICALS LIMITED  
POWER SECTOR: WESTERN REGION: NAGPUR**

NAME OF THE TENDERER: \_\_\_\_\_

SELLER'S REF. No. \_\_\_\_\_ DATE : \_\_\_\_\_

ENQUIRY No.: **XI045 E**  
DATE: **08.12.2011**DATED: **24.11.2011****DUE**

Sl. No	Description of work	Rate
01	<b>Total charges exclusive of service tax for the job of Repairing and overhauling of ISUZU make 6SD1T engine fitted on Link Belt LS 248 crane of 180 MT capacity</b>	Rs.....(IN FIGURES) <hr/> Rupees..... ..... .....(IN WORDS)

Presently Service tax @ ..... extra.

SIGNATURE OF THE TENDERER WITH SEAL

**ANNEXURE -I**  
**Technical Specification for Tender XI045 E Dt 24.11.11**

**Sub: Repairing and overhauling of ISUZU make 6SD1T engine fitted on Link Belt LS 248 crane of 180 MT capacity.**

**1. Specification of engine:**

- a. Make: ISUZU
- b. Model: 6SD1T
- c. Type: Water cooled four cycles, vertical in- line, overhead camshaft.
- d. Combustion chamber type: Direct injection.
- e. Cylinder line type: Dry.
- f. No. Of cylinder – bore x stroke: 6 – 120 x 145 mm (4072 x 5.70 in)
- g. Total piston displacement: 9839 cm<sup>3</sup>
- h. Engine weight (Dry): 700kg
- i. Fuel injection order: 1 - 5 – 3 – 6 – 2 – 4
- j. Fuel injection timing (BTDC): 18 degree.
- k. Injection pump: In-line plunger, Bosch P-type.
- l. Governor: Mechanical, RSV type
- m. Compression pressure (At warm): 29 kg/cm<sup>2</sup> at 220 rpm at sea level.
- n. Valve clearance (At cold): Intake- 0.4 mm, Exhaust- 0.4 mm

**2. Scope of work:**

- 2.1. Location- BHEL Site, 2X600 MW DB Power Raigarh
  - a. Removal of engine from Link Belt LS 248 crane.
  - b. Loading of engine on truck/trailer for safe transportation.
  - c. Fitment and commissioning/load testing of engine on Link Belt LS 248 crane.
  
- 2.2. Location- At your works
  - a. Unloading of engine at your works.
  - b. Dismantling of complete engine for repairing and overhauling.
  - c. Dismantling, cleaning, repair/servicing and assembling of engine sub assemblies.
  - d. Minor machining work on valve head if any, valve seat cutting & lapping, polishing of crank shaft & camshaft and any other component
  - e. Replacement of worn out parts as per **annexure -I**.
  - f. Necessary checks like crank shaft floating, connecting rod alignment check, valve head pressure test and other checks to be done during overhauling of engine.
  - g. Complete assembly, setting and tuning of engine.
  - h. Work shall be completed within 20 days after receipt of material at your works.
  - i. Packing and Loading of engine on truck/trailer for safe transportation.

**Note: Bidder shall collect the new spare parts from BHEL PSWR HQ, Nagpur.**

**3. BHEL scope**

- a. BHEL shall transport engine from BHEL site, 2X600 MW DB Power Raigarh to your works and back after repairing.

- b. BHEL shall provide crane, slings & D shackles free of cost for removal/fitment of engine on Link Belt LS 248 crane and loading/unloading of engine on trailer/truck at BHEL site, 2X600 MW DB Power Raigarh.
- c. BHEL shall arrange for packing of engine for safe transportation at BHEL site, 2X600 MW DB Power Raigarh.
- d. BHEL shall provide consumable like diesel, engine oil etc free of cost at 2X600 MW DB Power Raigarh.
- e. BHEL shall provide new spare parts as per annexure-II.

**4. Work completion period at your works**

Work shall be completed within 20 days after receipt of material at your works.

**5. Qualification criteria**

Bidder should have past experience in repairing & overhauling of at least one diesel engine of 75 BHP or more capacity.

**6. Workmanship warranty**

- **Six month warranty for workmanship.**

**SIGNATURE OF THE TENDERER WITH SEAL**

## Annexure – II

<b>SPARES PROVIDED BY BHEL FOR ISUZU MAKE ENGINE MODEL 6SD1T-PB03 FITTED ON LINK BELT LS 248H CRANE OF 180 MT CAPACITY</b>			
<b>Sl No.</b>	<b>PART NO.</b>	<b>PART NAME</b>	<b>QTY</b>
1	187810-7322	REPAIR KIT ENGINE OVERHAUL (seals, packing & gaskets)	1
2	187810-7121	LINER SET (LINER, PISTON, RING SET, SNAP RING, PISTON PIN & BUSH CONN ROD SMALL)	6 SET
3	113610-7461	WATER PUMP	1
4	119163-0380	REPAIR KIT AIR COMPRESSOR	1
5	114400-2360	TURBO CHARGER	1
6	111715-0430	INSERT VALVE INLET	6
7	111711-0410	INSERT VALVE EXHAUST	6
8	111721-0080	GUIDE VALVE INLET & EXHAUST	12
9	111520-0350	METAL KIT CRANKSHAFT 0.25MM	1
10	111599-0070	METAL SET THRUST STD	2
11	113342-1270	SET OIL PISTON COOL	6
12	109675-1051	BOLT JOINT, OIL JET	6
13	113240-0790	CARTRIDGE FUEL FILTER	1
14	113240-1310	CARTRIDGE OIL FILTER	1
15	113100-1912	PUMP ASSY OIL	1
16	NPN	METAL SET CON ROD 0.25MM	6
17	112551-0760	VALVE INLET	6
18	112552-0830	VALVE EXHAUST	6
19	112565-0020	COLLAR SPLIT SPRING	24
20	NPN	BUSH ROCKER ARM	12
21	112616-0280	SCREW ADJ. ROCKER ARM	12
22	909844-5740	NUT ADJ. ROCKER ARM	12
23	112621-0510	SHAFT ASSM ROCKER	1
24	113200-6451	CARTRIDGE OIL FILTER	1
25	115300-1860	NOZZLE ASSY INJECTION	6
26	115750-0800	PUMP ASSY FEED	1
27	113671-1730	BELT FAN	1
28	112310-48014	Crank Shaft (Subjected to condition)	1
29	112310-4801	Conn Rod (subjected To condition)	2
<b>Note: Reference for part no is taken from part catalog (1-8871-0334-2) for ISUZU Diesel Engine 6SD1</b>			