

DETAIL	INFORMATION
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Notification (Reference) No.	2811300022 – R&D Dt. 29/07/2013
Tender Title	SUPPLY OF HIGH VELOCITY OXY-FUEL SPRAY GUN
Tender Type	BUY – Two Part
Brief Description	High Velocity oxy-fuel spray gun as per the specification, commercial terms & conditions enclosed
Published in Newspaper	NO
Published On	--
Tender Value in Rs	--
EMD Value - Rs	NIL
Document Cost- Rs	NIL
Date of Issue of Notification -DD/MM/YY	
Date for Closure of Sale of Forms - DD/MM/YY	Not Applicable
Completed Forms to be submitted by - DD/MM/YY	30/08/2013 : 14.00 Hrs IST
Date of Opening for Technical Bids - DD/MM/YY	30/08/2013 : 14.30 Hrs IST

Note:

If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.

All clarification may be sought at least seven days prior to tender due date from the undersigned with due written request.

Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> (or) <http://tenders.gov.in>. You are requested to visit the website regularly for updates.

The offer should reach this office on or before the due date & we are not responsible for any postal delay. Late tender will not be considered.

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**TECHNICAL SPECIFICATION FOR
HIGH VELOCITY OXY / AIR FUEL POWDER SPRAY SYSTEM**

Sl. No	Particulars	BHEL specifications	Vendor's Confirmation [With complete technical details]	Deviation, if any
1	Confirmation for each point of specification.	Vendor is requested to give specific confirmation for each point. Deviations if any shall be clearly indicated.		
2	Working Medium	It should be operated at the following medium, a. Oxygen b. Air		
3	Ambient Condition	The uncontrolled ambient room conditions are: a) Temperature: 10 to 50 °C, b) Relative Humidity: 60 - 90 % c) Dusty		
4	Scope of Vendor	1. Design, Manufacture, Testing, at vendor's works. 2. Installation & Maintenance manuals, Mandatory Spares. 3. Training, Installation, Commissioning & Proving performance at BHEL Trichy. 4. On-site Guarantee, On-site Annual Maintenance Contract.		
5	HVOF Powder Spray portable System	1. It should be portable system. 2. High performance Water Cooled (Hybrid) Gun. 3. Feeder Material is powder (metal/Oxide). 4. Control Console; Oxygen & Fuel Flow meters with Control Valves & Flash Back Arrester. 5. Fuel: LPG/Propane/Natural Gas. 6. Gases: Oxygen and Air. 7. Spray Rate: Min 40 gm/min. 8. Coating Deposit Efficiency: Min 50 %. 9. Particle Velocity Min 800 m/s 10. Flame temperature: Max 2800 °C 11. Powder Feeder		

Purchase / R&D and CR

**TECHNICAL SPECIFICATION FOR
HIGH VELOCITY OXY / AIR FUEL POWDER SPRAY SYSTEM**

		<ul style="list-style-type: none">a. Electricity: 220-240V/1 P/ 50Hz.b. Interconnecting Hoses & Cables and Disc Kit for Coarse Powder. <p>12. Air Control Unit, comprised of Automatic Drain Double Air Filter with Regulator.</p> <p>13. Gas Control Unit comprised of High Volume Two Stage Oxygen, Nitrogen & LPG Gas Regulator.</p> <p>14. Hose Unit for Oxygen, LPG & Air with suitable end (from Panel to Gun: 7 meter and From Gas/Air Control Unit to Panel: 5 meter). Extra 3 set of spare hose to be supplied by vendor. The vendor should be supplied the rubber hose with suitable fittings.</p> <p>15. Portable Trolley with caster for mounting of Control Panel, Powder Feeder, LPG Vaporizer Unit and storage of Gas Hoses with Gun.</p> <p>16. Panel Mounting Stand.</p> <p>17. Built-in monitoring and alarm system with automatic shutdown for safe operation.</p> <p>18. Interfaces with work piece handling equipment, gun manipulators, exhaust system and accessories.</p>		
6	Power supply	Power input to be 220-240VAC/1P/ 50Hz. Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz).		
7	Safety Equipment	<p>The following safety equipments to be supplied along with HVOF gun.</p> <ul style="list-style-type: none">1. Metal Spray Helmet-2 Nos.2. Helmet Air Conditioner-Hybrid venturi type- 2 Nos.3. Protective Goggle- 4 Nos.4. Ear Muff -3 M Make- 10 Nos.		
8	Along with offer the following details in hard copies shall be indicated.	<ul style="list-style-type: none">a) Scope and Schematic diagrams -2 copies.b) Catalogs - 2 copies.c) Dimensional details for preparing Civil Engg. Drawings (if required) - 2 copies.d) Mandatory spares with Unit price if applicable.e) Accessories with Unit price if applicable		

Purchase / R&D and CR

**TECHNICAL SPECIFICATION FOR
HIGH VELOCITY OXY / AIR FUEL POWDER SPRAY SYSTEM**

		<p>f) Power supply requirement.</p> <p>g) Instrument air and compressed air if required.</p> <p>h) Fume & Dust Collection system & Sound Reduction – Acoustic Room, if applicable</p> <p>i) Vents and drains if required.</p> <p>j) Power supply requirement.</p> <p>k) Space requirement around the equipment.</p> <p>l) List of software.</p>		
9	Inspection at vendor's works	<p>On site Inspection: visual inspection & showing practical operation/demonstration of the equipment as per specification at customer site.</p> <p>The vendor should once again thoroughly inspect the equipment, furnish inspection certificate for BHEL, Trichy review and get clearance prior to dispatch of Equipment.</p>		
10	Installation and Commissioning	<p>The Equipment with all Accessories is to be installed & commissioned at BHEL, Trichy by the service engineer of the supplier.</p>		
11	Performance Prove-Out at BHEL, Trichy	<p>The Supplier's Service Engineer has to conduct demonstration & calibration of the Equipment with Accessories at BHEL, Trichy.</p>		
12	Training on Operation & Maintenance at BHEL, Trichy.	<p>Complete Training for BHEL, Trichy Engineers to be given on Operation & Maintenance of the offered equipment at BHEL, Trichy. The vendor should give training for 2 persons for 1 month may be applicable at vendors work.</p>		
13	Onsite Performance Guarantee	<p>The Equipment & Accessories (including Bought-Out Items) are to be guaranteed for its performance for a minimum period of one year from the date of performance acceptance at BHEL, Trichy.</p>		
14	Installation and O&M manual in ENGLISH Language	<p>2 Nos Installation, Operation & Maintenance Manual. It shall contain Electric Schematics, Circuit Diagrams, PCB Drawings, Trouble Shooting Charts, Mechanical Sub-Assemblies, Rating of Bought-Out Items, etc.</p> <p>In addition, one soft copy in CD is to be supplied.</p>		

Purchase / R&D and CR

QUALIFYING CRITERIA

The BIDDER / VENDOR have to necessarily provide the following details, for making an assessment of the firm's capability and competency.

BHEL will study both the Qualifying Criteria and Response for Technical Specifications. The Price bid can be studied only if both the Qualifying Criteria and Response for Technical Specifications are found acceptable otherwise rejected.

The BIDDER is expected to give complete details against each clause in the table given below and wherever necessary an additional sheet may be attached giving clear reference number to cover the required details.

Name of the product: "High Velocity Oxy Fuel (HVOF) Powder Spray System".

Refer Technical Specification for further details.

S. No.	PARTICULARS	VENDOR's RESPONSE
1.0	The BIDDER / VENDOR shall have a minimum of FIVE Years of Continuous Experience in the Design, Manufacture & Supply of " HVOF Powder Spray System ". Please indicate the actual experience.	
2.0	YEAR of launch of the Model quoted against this ENQUIRY	
3.0	Number of " HVOF Powder Spray System " supplied, installed and commissioned till date in India. Please furnish contact person name, address, phone number, fax number and mail id.	
3.1	Number of " HVOF Powder Spray System " supplied, installed and commissioned till date outside India. Please furnish contact person name, address, phone number, fax number and mail id.	
4.0	Details of Design Set-Up and Technology Back-Up assured from the PRINCIPAL Equipment Maker.	
5.0	Details on Service-after-Sales set-up in India including the addresses of Agents/Service Centre in India.	
6.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS namely " <u>Technical Bid</u> " & " <u>Price Bid</u> ".	



Bharat Heavy Electricals Limited
Purchase Department / R&D and CR
Coal Research Centre Building
Tiruchirappalli-620014, Tamil Nadu, India

An ISO 9001 Company

COMMERCIAL TERMS AND CONDITIONS FOR SUBMISSION OF OFFER

1.0 QUOTATIONS

Bidders shall submit the offer in **TWO INNER ENVELOPES** as indicated below which shall be sealed in one outer envelope.

Envelope I This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked **"Part I - Technical and commercial bid"**, indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Envelope II This sealed envelope should contain **price details**. This envelope should be clearly marked **"Part II - Price bid"**, indicating Enquiry No., Due Date and Address & Reference of the Bidder.

Both the envelopes (Part I & II) shall be put in one cover, duly sealed, superscribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder.

The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered. We suggest you to send the offer by SPEED POST.

Tender should not be addressed to any Individual's name but only by designation to:

AGM / CCDP and BD
Purchase Department / R&D and CR
Coal Research Centre Building
BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI - 620 014
TAMIL NADU, INDIA

Tenders 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 quoted in words and figures, amount quoted in words shall prevail.

Offers should be in **ENGLISH** and accompanied by detailed technical literature, catalogue and details of process facility in **ENGLISH**.

2.0 PART I (TECHNICAL & COMMERCIAL BID)

2.1 Technical

This part shall include / indicate the following:

Offer should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.

2.2 Commercial

This part shall include / indicate the following:

- 2.2.1. Port of shipment / Station of despatch
- 2.2.2. Terms of payment
- 2.2.3. Taxes & duties applicable.
- 2.2.4. Delivery Schedule
- 2.2.5. Offer validity
- 2.2.6. Country of origin
- 2.2.7. A copy of "Un-Priced Part II" i.e., a copy of the Price Bid **without the price details** to be enclosed.

3.0 PART II (PRICE- BID)

This part should contain the schedule of price particulars and to be co-related to the technical details provided in Part I.

4.0 OPENING OF TENDERS

The Part I - Technical & commercial bid alone would be opened on the Tender opening date.

The Part II - Price bid of Technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the price bid opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.

5.0 GENERAL

5.1. Incomplete offers will not be considered.

5.2. **Terms of Delivery:** Bidders are required to quote their best delivery period. Foreign Bidders should submit their offer for net **FOB - Nearest Sea Port / Air Port**. Indian Bidders should submit their offer for **Ex-Works basis**. Delivery shall be counted from the date of Letter of Intent.

5.3. **Taxes and Duties :** All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No etc., failing which the purchaser will not be liable for payment of such Taxes and Duties.

5.4. Liquidated damages : It is clearly understood among the parties to the contract the “ **Time is the essence of the contract** ”. Therefore, the delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional penalty at the rate of 1/2% of the value of goods for each week of delay subject to a maximum of 15% of the order value.

5.5. Risk purchase : Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefor. The supplier shall be liable for any loss, which the Purchaser may sustain by reason of such risk purchases.

5.6. Test certificates: The Bidders shall clearly mention in their offer that Test Certificates as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.



BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI – 620014

PURCHASE / R&D and CR

ANNEXURE TO PURCHASE ENQUIRY

1. PRICE : Ex-Works / Ex-Godown (or) F.O.R- DESTINATION
2. DISCOUNT : % (or) Lumpsum amount Rs
3. PACKING & FORWARDING : % (or) Lumpsum amount Rs
4. TAX : VAT.....% / CST %
(CST Without C FORM)
5. SURCHARE :%
6. DUTIES :%
7. FREIGHT & INSURANCE :
8. DELIVERY PLACE :
9. DELIVERY PERIOD :
10. LD / PENALTY FOR DELAY IN DELIVERY : @ 0.5% PER WEEK SUBJECT TO A MAXIMUM OF 15% IS APPLICABLE. ACCEPTED
11. OFFER VALIDTY :
12. PAYMENT TERM : 100% Payment within 45 Days after Receipt and Acceptance of the Material.
13. GUARANTEE / TEST CERTIFICATE :

SIGNATURE OF SUPPLIER WITH SEAL

NOTE : Please do not Quote as EXTRA. Quote the rate in % or the amount as lumpsum. (Rates of applicable Taxes & Duties, whether inclusive or exclusive should also be mentioned).



BHARAT HEAVY ELECTRICALS LIMITED

R&D / PURCHASE

TIRUCHIRAPALLI - 620 014.

PURCHASE ENQUIRY - TERMS & CONDITIONS

1. a) QUOTATIONS : Each tender should be sent in double cover, inner cover should be sealed with tenderer's distinctive seal and super scribed with correct tender No. item of supply and due of opening. The outer should only bear the address of this office and should not have any indication that a tender is within. Two or more quotation should not be sent in one cover but the quotation against each tender should be sent separately to avoid confusion. Tender should not be addressed to any individual's name but only by designation.
b) Tender should be free from CORRECTION AND ERASURES. Correction if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words prevail.
c) PRICE should be nett F.O.R. dispatching station inclusive of risk in transit and remain valid for 60 days from the due date.
d) If any Sales Tax is payable as extra to the quoted price it should be specifically stated in quotations alongwith CST & TNGST No. failing which the purchaser will not be liable for payment of Sales Tax. Our T.N.G.ST. No. 356005, Dated 01-04-1995, C.S.T. No. 239383, Dated 11-06-1991.
e) NO REVISION OF PRICES will be entertained after tenders are opened.
f) Manufacturer's Name, Trade Mark or Patent No. if any should be specified. Illustrative leaflets giving technical particulars are required along with quotation wherever necessary.
g) Products with I.S.I. certification marks will be preferred.
h) 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.
2. SAMPLES : Wherever possible, sample should be submitted separately whether specifically requested or not so as to reach the purchaser on or before the due date of the enquiry. They should be clearly marked with the Enquiry No. and the date on the outside cover to facilitate identification.
3. PACKING AND MARKING : The supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.
4. TERMS OF PAYMENT : Payment will be made within 45 days of satisfactory receipt of materials at site. Wherever required by the purchaser, the successful tenderer must send the operation and maintenance manuals, Test certificates, Drawings, etc., for the materials ordered. These should be sent immediately after dispatch of the materials and a statement to that effect should be made in the Invoice. Failure to comply with this provision will result in delay in payment of the Bills. Goods dispatched either by V.P.P. or by the document presented through bank will be accepted unless agreed to by the Purchaser.

The duplicate copy of the Invoice meant for the transporters should accompany the material as stipulated under C.E. Rules 52-A and 173-C (or) 57GG. A Photostat copy of the above Invoice for each delivery challan should be submitted alongwith the original bills router through Bank or submitted directly to BHEL Finance Department.
5. SECURITY DEPOSIT : For purchase over Rs. 5000/-the successful tenderer/s may be requested to furnish a BANK GUARANTEE / SECURITY DEPOSIT for an appropriate value as may be determined by BHEL.
6. LIQUIDATED DAMAGES / PENALTY AND INTEREST ON ADVANCEES FOR DELAY IN DELIVERY : "If the supplier fails to deliver the raw material / Equipment / Components within the period specified in the contract the purchaser shall deduct LIQUIDATED DAMAGES a sum equivalent to 0.5% of the Price for each week of delay upto a maximum of 15% of the price of the delayed / undelivered goods. In addition to the recovery of interest at normal cash credit rate plus 2% for the unadjusted portion of the advances. If the delay in delivery of a part contributes to delay in execution of total system. LD and interest on advances will be recovered on the total contract price / total advance paid".
7. RISK PURCHASE : Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitute therefore. The supplier 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 6 above.
8. PREFERENTIAL DELIVERY : It should be noted if a contract is placed on a higher tenderer as results of this invitation to tender in preference to the lowest acceptable offer in consideration of the earlier delivery, the seller will be liable to pay to the purchaser the difference between the contract rate and that of the lowest acceptable tender on the basis of final price F.O.R. DESTINATION, including of all elements of Frights, Sales Tax, Duties and other incidents, incidental in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract.
9. MODVAT CREDIT : If any Excise Duty is payable, the chapter Head / Sub-Head reference and the rate of the duty should be quoted. If the tender is availing MODVAT credit for his input materials, the effect of Proforma credit should be passed on to the purchaser. Tenderer under "MODVAT" shall be preferred.
10. GENERAL : The purchaser reserves the right to split up the tender and place order for individual terms with different tenderers and also increase or decrease the quantity.

Any other Conditions which might have been quoted by the Seller and are in contravention to the terms prescribed in the order and which have not been specifically accepted in by Purchaser will not be applicable to the Contact.

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