

Name of work: Retrofitting of Skoda Horizontal Ram borer, Plan No.2/0-332,

NIT NO. : 20140038/WEX/CNC/BLK2/0-332

Dated: 16/03/2015

Brief About Machine:

Make & model: Skoda, Chek republic, Model W250HC

No. of Axes: 3 (X, Y&Z)

Axes Drive system: Siemens 611A with IFT5 motors

Ram and spindle Feed: driven by single motor

Main motor: 76KW DC motor with analog techo feedback

Main Drive: Mentor II Control Technique make

Induction motors: Total 10 nos. (0.05 to 0.75 KW ---8 no. , 3.7 KW – 1 no. , 2.2 KW --- 1no.)

PLC: Siemens S7 , CPU 314 with hardwired I/Os (DI = 6X32 & DO= 4X32).

HMI : None

DRO & transducer : Electronica make (Linear for X & Y axes and rotary for Z-axis)

Requirement: Retrofitting of machine with Siemens 15” Touch panel HMI, S7 300 profibus based PLC with distributed I/Os with **3 stations (Operator panel, Column and Electrical cabinet)**, New operator panel and complete rewiring of machine including power wiring for induction motors.

1.0 Scope of Supply:

Sr No.	Item description	Qty	Vendor compliance	remark
1.1	HMI: a) 15” touch panel Siemens TP1500 profibus compatible b) WINCC Comfort V11 or higher with license for project development and data transfer c) Communication cable to communicate with standard USB port of laptop. d) Other standard accessories required for HMI	1 set	Yes/No	Vender to provide details & comply
1.2	Latest Siemens S7 300 PLC with profibus DP and other accessories including following main items: a) CPU to interface 192 DI, 6 AI, 128 DO,6 AO, 3 fast counters etc. b) Digital Input / Output Modules (192DI & 128 DO) c) Interface modules to connect with profibus	1 set	Yes/No	Vender to provide details & comply

	<p>d) Analog input modules for accepting command value from pot for each axis (4 no. AIs in operator panel) and analog signals from main drive (2 no. AIs in Electrical cabinet)</p> <p>e) Analog output modules for feeding command value to drives (4 no. AOs in electrical cabinet) and display of RPM and Load on operator panel (2 No AOs on operator panel).</p> <p>f) Fast counter module for TTL signal input from position transducers for each axis (3 no. to be mounted in operator panel) .</p>			
1.3	Phoenix/ Schneider make relay module each with 8 relays to provide supply to solenoids, contactors etc	12 no.	Yes/No	Vender to provide details & comply
1.4	Siemens/ Lapp make preassembled cables as per the following details: a) Power cables 6FX8002-5CA23-1EA0 -----2 nos. b) Power cables 6FX8002-5CA12-1EA0 -----1 nos. c) Signal cable 6FX8002-2CB31-1EA0 ----3 nos.	1 set	Yes/No	Vender to provide details & comply
1.5	1. Siemens/ Phoenix/ Schneider make regulated din mounted Power supplies: a) Input 3 phase 380V , Output 24 V/ 20 Amp -----2 no. for I/Os and field elements. b) Input single phase 220 V , Output 24V / 5 Amp---- 1 no. for PLC CPU only. 2. Aplab make Regulated DC power supply LQ6324T for maintenance -----1 no.	1 Set	Yes / No	Vender to provide details & comply
1.6	Operator panel: New swirling type with overhead mounting to be installed at the existing location to incorporate the following switches and Touch panel at Sr. no. 1.1: a) Start PB, Stop PB, direction SS, creep/jog/rapid SS, Set point Pot (separate for each axes) 3 no. each. b) Spindle start PB, stop PB, direction SS, inching PB, Gear SS. c) Tool clamp - un clamp, RPM Display meter, feed distance 200/700 SS, EM off.PB d) Ram/spindle/threading feed SS, Machine illumination on/ off TS. Control ON OFF PB e) Coolant ON /Off PBs, Coolant pot. Chip conveyer on off PB, M/c light SS. f) Any other switch found necessary at the time of finalization of operator panel design. g) PLC DI/DO , fast Counter and interface modules.	1 Set	Yes/No.	Vender to provide details & comply
1.7	Pre wired Metal plate (1300mm X 800mm approx.) with switch gear, PLC I/O, interface modules, TBs and complete wiring to be mounted on machine column.	1 Set	Yes/No	Vender to provide details & comply
1.8	Pre wired Electrical Panel: Rittal make fitted with door mounted 1.5 KW Advance make AC & Pre wired with PLC CPU and other modules, LED light for illumination, 5 Amp service socket and other switchgear including motor starters etc and provision to install existing Siemens 611A servo drive system (1X 36/47 KW E/R , 3 X 160 Amp LT modules and 1 X 36 KW choke) <i>The switchgear (MCBs, Overloads, Contactors, and Relays etc) should be of Siemens/ Schneider/ Telemecanique or ABB make. All solenoid, contactor, lamp etc Outputs are to be routed through Phoenix channel relay boards and solenoids valves with fuses in series also.)</i>	1 Set	Yes/No	Vender to provide details and comply
1.9	IGUS / Lapp/ Siemens make profibus cable of suitable length and connectors	1 Set	Yes/No	Vender to provide details and comply

1.10	Complete electrical wiring and cabling for the whole machine including all power cables for induction motors, control & signal cables for clutches, pneumatic valves, flow switches, pressure switches, indicating bulbs, JIB crane, limit switches. New Bs, JB's required for the commissioning of the above package. The cables and wiring is required to be of reputed make ie Lapp, Finolex etc.	1 Set	Yes/No	Vender to provide details and comply
1.11	Conduits: Metallic rubberized leak proof conduits with glands for all the cables including cables in the drag chain as well as control cables.	1 Set	Yes/No	Vender to provide details and comply
1.12	a) Machine illumination light (150W metal halide / equivalent LED) mounted at the top of column for the full illumination on the working area. Reputed make and well-guarded from chips and coolant. b) Portable machine lamp with magnetic base operating at 24V DC , 35Watts minimum with 3 meter cable with conduit.	1 Set	Yes/No	Vender to provide details and comply
1.13	Other miscellaneous items a) Control transformer (380V to 220V) of suitable ratings to meet 220 V load requirement b) Power disconnecter to be mounted in electrical cabinet (380 v/ 3 Phase / 250 Amp) --- 1 no. c) Lugs, ferrules, aluminum tags for panels, din rails, cable clamps, glands etc	1 Set	Yes/No	Vender to provide details and comply
1.14	Documents & backup: as per the following details: a) Hard copy of Electrical, wiring, layout diagram, PLC program with cross reference and comments----- 3 copy each. b) Soft copy of above & HMI project on DVD ----- 1 no.	1 no.	Yes / No	Vender to provide details and comply
1.15	Spares: a) CPU, Interface module, DI/DO module, AI/AO module, Fast counter module ----1 no. each type same as at point. no. 1.2 of SOS b) Push button, Selector switch, Potentiometer, Toggle switch, indicating lamps ----- 5 no. each type. c) Pre-assembled cable 6FX8002-2CB31-1EA0 ----- 2 No.	1 set	Yes/No	Vender to comply

Note: Vender has to supply all the material stated above in clause 1.1 to 1.15, even if it is not required in vender's scheme for retrofitting. Any other material required for retrofitting of the machine and not covered here has to be supplied by vender without any cost to BHEL.

2.0 SCOPE OF WORK

S.No.	Activities	Vender compliance (Yes/No)	Remarks

2.1	Dismantling and removal of old Electrical panels, operator panel switch gear along with old cabling and wirings.	Yes/no	Vender to comply
2.2	Cleaning of complete machine and its accessories.	Yes /No	Vender to comply
2.3	Installation of new electrical panel(s) and metal plate as per SOS 1.7 along with the PLC , existing servo Drive system . Locations of Electrical panels are as below a) Main panel at the existing position incorporating drives, switch gear, machine hydrostatic and hydraulic etc with door mounted AC. b) Metal plate at the column platform incorporating switch gear for column, operator platform movement etc.	Yes/no	Vender to comply
2.4	Design, manufacturing and Installation of new operator panel supplied at 1.6 of SOS <i>Note: Vender to confirm the design of new operator panel from BHEL prior to its manufacturing.</i>	Yes/no	Vender to comply
2.5	Cabling and wiring of PLC, Drive system, Operator panel, field devices.. Laying and routing of new conduits, cables from electrical panel to machine and operator console through new conduits. Refurbishment and rewiring of all the terminal boards, Junction Boxes.	Yes/no	Vender to comply
2.6	Machine wiring will consist of AC Servo motors, hydraulic system, hydrostatic system, Lubrication system, Coolant system, Machine lamp, Safety switches, Limit switches, operator panels, column, head stock, field devices etc.	Yes/no	Vender to comply
2.7	Rewiring of control of existing DC main drive and motors in the existing electrical panel.	Yes/no	Vender to comply
2.8	Complete rewiring of AC servo motors and drive system.		
2.9	Programming of PLC and HMI, development of various screens with touch key control , Interfacing & commissioning of the HMI so that all the hardware switches on operator panel can be replicated on touch screen beside display of actual position and I/O/Flag status .	Yes/no	Vender to comply
2.10	Demonstration of all functional features of new HMI and PLC . Prove-out of the auxiliary functions (, Coolant system, hydraulics, hydrostatics, chip conveyer etc.).	Yes/no	Vender to comply
2.11	Any abnormality on the machine should be indicated by indicating lamp, PLC alarms & message prompts. (PLC alarms & messages should include the device number and/or the operand).	Yes/no	Vender to comply
2.12	Development of Alarm and Messages support with remedial action through help guide loaded on the system for user defined alarms.	Yes /No	Vender to comply
2.13	Design and development of any mechanical/ electrical / electronic modifications wherever / if required to execute the above work.	Yes/ no	Vender to comply
2.14	<i>Any work not covered in the scope of work but later found necessary for the completion of the project shall be executed by vender without any additional charges.</i>	Yes/no	Vender to comply

3.	<u>WARRANTY:</u>	Yes /no	Vender to comply
	Party shall stand warranty for all the supplied material and work for a period of one year from the date of successful commissioning of the material and final acceptance (cl –6)		
4.	<u>TRAINING:</u>	Yes/No	Vender to comply
	Party shall impart training to BHEL staff for a) PLC programming to 1 Person for 1 weak at Vender/Manufacturers works. b) HMI programming to 1 Person for 1 weak at Vender/Manufacturers works. c) Operations of machine to 4 no. of operators for 3 days at BHEL works. <i>Expenses for boarding & lodging of BHEL personal during training shall be borne by BHEL.</i>		
5.	<u>FINAL ACCEPTANCE:</u>	Yes / no	Vender to comply
	Final Acceptance shall be at HEEP, BHEL, Haridwar after: a) Upon completion of the scope of supply and scope of work at BHEL as in clause1 and 2 above . b) Final acceptance shall include clearance of all pending issues related to the work contract. c) Successful Demonstration of various functions as envisaged in the technical scope. <i>After settlement of all pending issues related to work and supply, a certificate for Completion of works in all respect shall be released within 15 days by Production and Maintenance personnel of BHEL which will be the referred document for Final Acceptance and final payment to the vendor.</i>		
6.0	<u>DELIVERY:</u> (IF DELIVERY PERIOD IS NOT OFFERED/ ACCEPTABLE, OFFER WILL NOT BE CONSIDERED FOR FURTHER PROCESSING)	Yes / No	Vender to comply
6.1	Material: Max. 4 months from the date of award of contract. Early delivery shall be acceptable subject to approval by BHEL.		
6.2	Work : Within 30 days from the date of release of machine for work.		
7.0	<u>LATE DELIVERY PENALTY (LD) CLAUSE:-</u>	Yes /No	Vender to comply
7.1	Late delivery @ ½% per week subject to a maximum of 10% of the material cost including spare parts shall be applicable for delay in deliveries		
7.2	In case of delays in commissioning after handing over the machine as per clause 6.2 penalty @ 0.5% per week subject to a max. of 10% of the Commissioning Charges shall be applicable for delay beyond scheduled completion of work for reasons attributed to the party. Net delay for the purpose of calculating late commissioning will be considered as the delay in work completion.		
7.3	However total LD on account of clause 6.1 & 6.2 will be limited to 10% of work contract award value.		
7.4	The time period from invitation date for Pre dispatch inspection from vendor to the date of arrival of pre dispatch team to		

	vendor's works and any other reasons attributed to BHEL will not be accounted in delivery period. This period will be excluded for the purpose of calculating LD. Vender should intimate regarding PDI, at least 15 days in advance.		
8.0	<u>PRE-DISPATCH INSPECTION</u>	Yes /No	Vender to comply
8.1	Pre-dispatch inspection of all the items covered under Scope of Supply clause 1 shall be carried out by BHEL at party's works.		
8.2	Supplier shall invite BHEL for carrying out pre- dispatch inspection.		
8.3	<u>Before inviting BHEL for pre dispatch inspection vender will submit Bill of material for material under SOS with at least 7 days prior notice and copy of electrical drawing/ schematic of machine to BHEL.</u>		
8.4	Deputed BHEL persons shall do pre acceptance at vendor works and give despatch clearance.		
8.5	Expenses of Boarding and lodging of BHEL personnel during PDI shall be borne by BHEL.		
9.0.	<u>EARNEST MONEY DEPOSIT (EMD):</u>	Yes / No	Vender to comply
9.1	Vendors have to deposit Rs 60,000/- as the EMD. EMD may be deposited in cash (as permissible under Income tax Act), through pay order or demand draft in favor of Account officer, HEEP, BHEL, Hardwar payable at Haridwar only.		
9.2	EMD shall be converted to security deposit if the work is awarded.		
9.3	EMD of unsuccessful vendors shall be refunded back normally within fifteen days of acceptance of award of work by the successful vender.		
9.4	EMD shall not carry any interest.		
9.5.0	EMD by vender will be forfeited as per tender document, if		
9.5.1	After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates		
9.5.2	The tenderer does not commence the work within the period as per LOI/contract.		
9.6	Offers without EMD will be rejected and will not be considered for evaluation. However valid NSIC certificate may be considered subject to receipt of notarized copy / copy attested by gazetted officer & verification.		
10.0	<u>SECURITY DEPOSIT (SD):-</u>	Yes /No	Vender to comply
10.1	Successful vendor shall deposit security. The rate of security deposit will be as below: <ul style="list-style-type: none"> • For work Up to Rs 10 Lakhs : <u>10% of work order value</u> • Above Rs 10 Lakhs upto Rs 50 Lakhs : <u>Rs 1 Lakh + 7.5% amount exceeding Rs 10 Lakhs</u> • Above Rs 50 Lakhs: <u>Rs 4 Lakhs + 5% amount exceeding Rs 50 Lakhs</u> 		
10.2	The security deposit should be submitted before the start of work in the following forms: <ol style="list-style-type: none"> i) Cash (As permissible under the Income Tax Act) ii) Pay Order / Demand Draft in favour of Account officer, HEEP, BHEL, Hardwar payable at Haridwar iii) Local cheques of Scheduled Banks, subject to realization. iv) Bank Guarantee from Scheduled Banks/Public Financial Institution as defined in the companies Act. The Bank guarantee format should have the approval of BHEL. 		

10.3	Security Deposit shall not carry any interest.		
10.4	EMD of successful tenderer can be converted and adjusted against the Security Deposit.		
10.5	100% of the Security Deposit amount shall be refunded to the vendor after final acceptance of the machine. SD shall be released after the submission of Performance Bank Guarantee(PBG) by the vendor		
11.0	<u>Performance Bank Guarantee (PBG):</u>	Yes / No	Vender to comply
11.1	Vendor shall be required to submit a performance bank guarantee (PBG) for 10% of the total work order value which shall be valid for a period of 12 months from the date of Final acceptance of machine.		
11.2	The PBG shall be submitted on a non-judicial stamp paper of value not less than Rs.100/- issued by any one of the nationalised banks.		
12.0.	<u>PAYMENT TERMS:</u> (Note : No advance payment shall be made to the vendor.)	Yes/No	Vender to comply
12.1.0	Part payment will be made after completion of following milestones		
12.1.1	First payment of 80% of material cost along with 100% taxes & duties (Excise duty, CST/VAT as applicable) shall be payable after receipt of material at HEEP, BHEL, Hardwar. Vendor to ensure that all relevant documents are submitted.		
12.1.2	Final payment of balance 20% of material cost, 100% of commissioning cost including service taxes as applicable amount and refund of 100% of the Security Deposit amount will be made after final acceptance, subject to submission of PBG as per point '11.0'		
12.2.0	All the payments shall be made through e-payment after submission of following documents along with first bill		
12.2.1	E-payment form duly filled (Form will be provided by BHEL)		
12.2.2	Income tax exemption letter(if applicable)		
12.3	Excise duty & CST/VAT will be paid on material cost and service tax will be paid on commissioning charges at actual. Related original documents to be submitted for availing MODVAT credit by BHEL.		
12.4	Timely submission of CENVATABLE invoices along with necessary documents to enable availment of CENVAT (Excise duty, Service Tax & VAT) credit by BHEL. Note: Wherever CENVAT credit cannot be availed within given time limit due to delay in submission of invoices or for any other reasons attributed to vendor, loss of such CENVAT credit will be recovered from such vendor.		
13.0	<u>Risk Purchase Clause :</u> In case of delays in supplies / defective supplies or non-fulfillment of any other terms & conditions given in the work order the purchaser may cancel the work order in full or part thereof and may also make the purchase of the material / service from elsewhere / alternative source at the risk and cost of supplier. If vendor does not agree to above clause , their offer is liable to be rejected. In case any vendor accepts risk purchase clause initially and subsequently declines to honor the term in the eventuality of RISK PURCHASE, they may be banned for business with BHEL.	Yes / No	Vender to comply
14.0.	<u>VENDOR'S OBLIGATION:</u>	Yes/no	Vender to comply

	The vendor shall bring all types of hand tools including pneumatic/electrical drill machines, Laser equipment's, and grinders along with general purpose measuring instruments and testing equipment with them for successful commissioning of the machine & supplied system.		
15.0	<u>Commercial Terms:</u>	Yes/ No	Vender to comply)
15.1	Prices shall be quoted on "Firm Price" basis only. The prices should only on F.O.R BHEL, Haridwar basis inclusive of Packing, Forwarding charges, freight & insurance. Installation & Commissioning Charges, applicable % of ED, VAT , Sales Tax, Service tax should be clearly indicated in attached price bid format as per annexure-B.		
15.2	Validity of offer shall be for a minimum period of 120 days from the date of Tender Opening.		
15.3	The material will be dispatched to Central Plant Stores, HEEP, BHEL, Haridwar, with instructions to forward the same to Engineer (WEX/CNC LAB), HEEP, BHEL, Haridwar.		
16.0	<u>BHEL'S OBLIGATION:</u>	Yes / No	Vender to comply
16.1	Existing electrical schematic of the machine shall be provided by BHEL to the vendor.		
16.2	Crane facility and lifting tackles like slings, rope, D-Shackles shall be made available while working in BHEL premises only.		
16.3	Facilities of minor welding, brazing , minor machining facility required for rectification/fitting of supplied material, subject to the extent available in BHEL, shall be provided in BHEL premises only.		
16.4	Any civil work required for the erection of panel shall be done by BHEL.		
16.5	AC Power Supply : 415 volt \pm 10 % ; 50 Hz,. 3 phase, 3 wire, Compressed air at a pressure of 5 kg./cm2 & water shall be provided by BHEL at one point only.		
16.6	The above requirements should be informed by the vendor in advance.		
16.7	Consumables like lubricants, kerosene oil, cotton waste etc. will be supplied free of cost by BHEL during execution of works inside BHEL premises.		
17.0	<u>GENERAL CONDITIONS:</u>	Yes / No	Vender to comply
17.1	A point wise compliance statement shall be submitted by the party with reference to the above scope of supply against each clause/ sub-clause with relevant details & comments. Non-compliance to any of the clauses & quoting inadequate quantity can lead to dis-qualification of the offer.		
17.2	The Vendor is advised to inspect the machine prior to quoting to ascertain all the relevant details required for successful completion of the work.		
17.3	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		
17.4	The award of works will be made on basis of the total of Material cost, Commissioning charges and all taxes, duties as applicable i.e. Cost to BHEL.		

17.5	The Vendor should submit their best price at this stage itself and they will not be allowed to revise the price. Any revision / discount given by the vendor subsequently will be ignored.		
17.6	RULES AND REGULATIONS OF THE CENTRAL/STATE GOVERNMENT: In the event of award of any contract, vendor will have to comply and abide by all the laws/enactment of state and central government. Documents regarding registration with Sales Tax and Excise authorities may also to be forwarded along with income tax clearance.		
17.7	BHEL reserves the right to reject the lowest or any tender or accept any tender in full or in part without assigning any reasons whatsoever.		
17.8	If any information/documents submitted by the vender are found false/fake at any stage, the tender submitted by the vender will be cancelled and earnest money deposited shall be forfeited debarring from the future participation in tenders.		
17.9	In case more than one contractor quotes equal L-1 rates, lottery shall be drawn among L-1 parties to decide one L-1 party.		
17.10	Conditional tender is likely to be rejected.		
17.11	The risk of delay/loss by post/courier rest with the bidder.		
18.0	<u>OFFER :-</u> The offer should be submitted in two parts and in following manner.	Yes / No	Vender to comply
18.1	<u>Techno-commercial Bid :</u>		
18.1.1	The envelop shall contain the Techno-commercial Bid (ANNEXURE 'A') with technical details and commercial terms & conditions along with Unpriced priced bid as per ANNEXURE 'B' with clear undertaking that no deviation from BHEL's price bid format , relevant documents like copies of ESI, PF code, PAN No., Service Tax Reg. No., TIN No., CST No., Experience Certificates, Audited Balance Sheet of last 3 years, Tender fees, EMD and all the documents related to clause 20 (Demand draft for tender document cost shall also be accompanied in case tender documents are down loaded from BHEL website. Offers without the EMD and Tender fee will not be considered except having valid NSIC certificate).		
18.1.2	The envelop shall be super scribed with "Techno-Commercial Bid", Name of work, NIT No. and Date of opening.		
18.1.3	Point-wise compliance of this scope of supply and work is to be given by vendors while submitting their techno-commercial offer in the format provided by BHEL. Each page of the compliance list has to be ink signed & stamped by the vendor.		
18.1.4	The vendor must note that no prices are to be quoted/ mentioned in the techno-commercial offer.		
18.2	<u>Price Bid :</u>		
18.2.1	The second envelope shall contain only the price bid with separate price for material and work & applicable taxes & duties on Price Bid Format only as per ANNEXURE 'B' .		
18.2.2	Any other information in the price bid shall not be considered and the quotation is likely to be rejected. Price bid document shall be ink signed & stamped by the bidder at the bottom of the page.		
18.2.3	The envelope shall be sealed and super scribed with "Price Bid", Name of work & NIT No.		
18.2.4	Price bids of techno commercially accepted vendors shall be opened (In presence of available vendors at the time of opening).		

18.2.5	Both the envelopes shall be kept in another sealed cover. The cover shall be super-scribed with “Tender for (name of work), NIT No. & due date” and shall be submitted in the “ Tender Box, placed at Tender Room, at IVth Floor, Main Administrative Building, HEEP, BHEL, Haridwar -249403, Uttarakhand ” and it should also contain the Bidder’s name and contact address.		
19.0	<u>Packing:</u> Supplier shall arrange for adequate protection and packing of the consignment so as to avoid loss and damage during transit and also take appropriate measures to prevent metal parts from rusting and corrosion during transit. Handling instructions shall be clearly printed /painted on the packages. Each package should carry a detailed packing slip. Supplier shall be responsible for any loss/damage during transit due to defective/inadequate packing		
20.0	<u>PRE QUALIFYING CONDITIONS:</u> <i>Offer only from the venders meeting the following conditions will be processed further.</i>	Yes / No	Vender to comply
20.1	Average Annual financial turnover during the last 3 years, ending 31st March 2014, should be at least Rs 6.0 Lacs . Vendor should submit Audited balance sheets for the last three years.		
20.2	The Vendor must have successfully completed the similar projects during last seven years ending 31 st December 2014 and these projects should fulfill either of the following: a. Three similar projects with each project costing not less than Rs. 8.0 Lacs. or b. Two similar projects with each project costing not less than Rs 10.0 Lacs. or c. One similar project with project costing not less than Rs 16.0 Lacs. Similar project means retrofitting of a Siemens S7 300 PLC with profibus and Siemens touch panel HMI .		
20.3	The above retrofitted machines should be running satisfactorily for at least 6 months prior to 31st January 2015. Vendor to provide P.O./ W.O copies and commissioning / performance certificates / relevant MOM for satisfactory operation of the above retrofitted systems along with name, address & contact details of their customer. BHEL reserves the right to verify the information provided.		

Price Bid format

Name of work: Retrofitting of Skoda Horizontal Ram borer, Plan No.2/0-332,

NIT NO. : 20140038/WEX/CNC/BLK2/0-332

Dated: 16/03/2015

Vender details:

Sl. No.	Description of item	Unit	Qty	Basic Rate (in Rs.)	Excise Duty (in %)	VAT/CST (In %) (VAT with FORM-17 or CST with C-FORM)	Service Tax (In %)	Value (in Rs.)	
1	Material	Set	01		%	%		Rs.	
2	Installation & Commissioning	Set	01					Rs.	
	TOTAL COST								Rs.

Signature & Seal of Vendor