



TRICHY, BHEL, TRICHY, POSTAL CODE :620014, TIRUCHIRAPALLI, TAMIL NADU, INDIA

RFQ/NIT HEADER DETAIL

ORGANIZATION NAME TRICHY, BHEL RFQ FLOATED UNDER THE PURCHASE POLICY
POLICY
RFQ/NIT REFERENCE 2681700002 RFQ OWNER/NIT MR KUMARASAMY A(DGM/PUR)
OFFICER/ENQUIRY OWNER
CODE/ENQUIRY NO
RFQ/NIT TYPE OPEN TENDER
NUMBER OF ITEMS ALREADY 1
ATTACHED
CURRENCY INR - INDIAN RUPEE
DESCRIPTION Retrofitting of CNC horizontal boring machine with detachable pipe chamfering head
DETAILED DESCRIPTION -
NUMBER OF BID PART(S) 2 PUBLISHED DATE 16 May , 2017 2:20:02 PM

ATTRIBUTE(S)

ATTRIBUTE NAME	ATTRIBUTE VALUE
Delivery at	FOR-PPPU, BHEL, Thirumayam
Inspection By	BY BHEL ENGINEERS
Validity of the Offer	PRICE SHOULD BE FIXED AND VALID FOR 120 DAYS FROM THE DATE OF OFFER
Inspection	VENDOR WORKS BY BHEL ENGINEERS

DATE-TIME DETAIL(S)

BID START DATE 16 May , 2017 2:25:00 PM BID DUE DATE 6 Jun , 2017 2:00:00 PM
BID OPEN DATE 6 Jun , 2017 2:30:00 PM
(SCHEDULED)

PRE-BID DISCUSSION DETAILS

PRE-BID DISCUSSION TYPE NOT REQUIRED

ALTERNATE BID DECRYPTOR(S)

USER DETAILS
MR Admin SANJEEVI B(SDGM/PUR)
MR MAYANK SHRIVASTAVA(ENGR/PUR)
MR KUMARASAMY A(DGM/PUR)

SELLER DETAIL(S)

CODE	ORGANIZATION NAME
023505	TEST (Mr test ot test)

TERM AND CONDITION DETAIL(S) - SPECIAL TERM(S)

SL. NO.	CATEGORY	DESCRIPTION
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TRICHY, BHEL, TRICHY, POSTAL CODE :620014, TIRUCHIRAPALLI, TAMIL NADU, INDIA

1	SPECIAL TERM(S)	SPECIAL TERM(S) 1. Please submit your detailed offer in two part bid system online i.e. Part-I. Technical Bid + Checklist (Annexure-A) + Unpriced bid indicating taxes & duties (Annexure-B). Part-II. "PRICE BID". Model price bid format (i.e. Annexure-B) is provided in the 2nd attachment. This has to be duly filled-in, signed and attached as PDF copy while submitting the online bid. 2. Online tender details are furnished in Annexures. All the relevant documents in the attachments have to be appropriately filled-in, duly signed & rubber stamped and submitted online. The online offer should be submitted on or before the due date at 14:00 hrs. 3. Point-to-point confirmation to BHEL's specification and commercial terms & conditions shall be provided. The supplier must fill and submit all the Annexures as indicated in the list of attachments. Annexure-A & Annexure-B (with taxes and duties, without indicating prices) should be filled and submitted along with the technical bid, else your offer is liable for rejection. 4. Offers with validity of less than 120 days and non-acceptance of LD & RP clause and Reverse Auction will lead to rejection of submitted offer. 5. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day. 6. All clarifications may be sought at least ten days prior to tender due date, from us through our Fax no. +914312520719 or e-mail. 7. BHEL reserves the right to go for a Reverse Auction (RA) instead of opening the submitted sealed price bid, which will be decided after technical and commercial evaluation. Information and general terms and conditions covering RA are given in commercial terms and conditions (Annexure-A/Point No.19). 8. Order shall be placed on single vendor for total package. 9. BHEL will consider MSE vendor as per Government guidelines. 10. 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. 11. List of Attachments: a. Commercial Terms & Conditions: Annexure-A. b. Price Bid Format: Annexure-B. c. CA certificate for MSE vendors: Annexure-C. The bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.
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RFQ/NIT ITEM DETAILS

SL. NO.	CODE	DESCRIPTION	QUANTITY	RFQ/NIT U.O.M	OFFER U.O.M
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10	52RC_NO	RETROFITTING OF CHAMFERING HEAD FOR JUARISTIC MAKE HORIZONTAL BORINGMACHINE. PART-A: PRE-QUALIFICATION CRITERIA: a) The bidder should have experience in retrofitting CNC machines for minimum 2 years. b) The bidder should have completed atleast one chamfering head interface in CNC machine. PO copy for the same should be submitted along with the offer. c) Satisfactory performance certificate of the same from customer shall be submitted along with details (Name of contact person, Address, E-Mailid, Phone no., etc.,) of the customer. d) Overview of retrofitting project(s) completed shall be provided for understanding the capabilities of bidder. PART-B: TECHNICAL SPECIFICATIONS: 1.0 Short description 1.1 Detachable Pipe chamfering head suitable for mounting on Juaristi, Spain make 5-Axis CNC Horizontal boring machine, Model No. MX 5 RAM 1.2 Chamfering head shall draw its power for rotary as well as tool movement from existing machine spindle. 1.3 The head is meant for Facing and Edge Preparation of straight & bend pipes which are clamped on the table of the machine. The head shall be capable of generating various profiles of edge preparation on the pipes. The details of EP shall be as per annexure-1. 1.4 "Tooling system shall consist of a. A base tool holder mounted on faceplate slide using Standard ISO Indexable carbide inserts capable of generating all edge preparation styles indicated in ANNEXURE-1" 1.5 "Material to be cut: A) CARBON STEEL: SA 106 Gr.B /Gr C (ASTM), AP15L Gr B (ASTM) B) ALLOY STEEL: SA 335 P11, P12 & P22, P91, SA 312 TP304H, SA 312 TP316L" 2.0 Technical Parameters BHEL Requirement 2.1 MINIMUM JOB DIA TO BE WORKED 219 mm 2.2 MAXIMUM JOB DIA TO BE WORKED 1400 mm 2.3 MAXIMUM JOB THICKNESS 120mm 2.4 MAXIMUM SPINDLE TORQUE 1813 Nm 2.5 MAX BORING & TURNING DEPTH 270mm 2.6 TOOL SLIDE AXIS RESOLUTION Minimum (Least possible) 2.7 CUTTING SPEED 100-150 metres /minute	01.00	NUMBER	NUMBER
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		2.8 DEPTH OF CUT up to 8 mm 2.9 CUTTING FEED 0.2-0.6 mm / revolution 2.10 Tool Slide DetailsA Tool Slide (U-Axis) Stroke (max) in mmB Accuracy of Tool slide Axis (U-Axis)C RepeatabilityD Squareness of Tool movement w.r.t U AxisE Distance between Table face & Z-Axis face 300 mm 3.0 Mechanical features of Existing machine 3.1 RAM CROSS TRAVEL Z AXIS 1000 mm 3.2 Z AXIS RAPID FEED RATE 15000 mm/min 3.3 Z AXIS WORKING FEED RATE 0-8000 mm / min 3.4 Z AXIS POSITIONING ACCURACY 0.01 mm/1000 mm 3.5 Z AXIS REPEATABILITY 0.008 mm 3.6 Z AXIS DRIVE MOTOR 63 Nm 3.7 Z AXIS DRIVE MOTOR RPM 2000 3.8 SPINDLE AXIAL TRAVEL W AXIS (max) 700 mm 3.9 W AXIS RAPID FEED RATE 15000 mm / min 3.10 W AXIS WORKING FEED RATE 0-8000 mm / min 3.11 W AXIS POSITIONING ACCURACY 0.01 mm/1000 mm 3.12 W AXIS REPEATABILITY ACCURACY 0.008 mm 3.13 W AXIS DRIVE MOTOR 63 Nm 3.14 W AXIS DRIVE MOTOR RPM 2000 3.15 MAIN SPINDLE DIAMETER 160 mm 3.16 MAIN SPINDLE MOTOR POWER 37 kW 3.17 SPEED RANGES 2 3.18 ROTATION SPEED RANGE I 5 - 844 / min 3.19 ROTATION SPEED RANGE II 844 - 3000 / min 3.20 TOOL HOLDER ISO 50 3.21 RAM FACE PLATE DIMENSIONS 420 mm x 450 mm 4.0 Electrical and control features of Existing machine,, 4.1 CNC System: Siemens Sinumeric 840D 4.2 NCU Card: Siemens, 6FC5357-0BB25-0AA0; NCU 572.5, 650 MHz, 64 MB 4.3 Spindle Motor:,, "Make: SiemensPart No.: 1PH7167-2NF23-0LC0380 V, 82 A, pf. 0.85Maximum power: 37 kWMaximum torque: 1813 NmSpeed ranges: 2,Low: 5-844 rpm, High: 844 - 3000 rpm" 4.4 Spindle Drive: Siemens 6SN1123-1AA01-0PA1; LT Module; INT 200A withcontrol card: 6SN1118-ODM33-OAA2 5.0 General Points 5.1 Geared Head unit shall be of fully enclosed type with Integralfacing unit,, 5.2 Maximum feed force for tool slide axis,, 5.3 Details of Feed back system for tool slide axis,, 5.4 Details of mechanism inside head,,			
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		5.5 Chuck plate diameter,, 5.6 Feed rate of Tool holder slide U-axis (continuous variable): 0 -1000 mm/min 5.7 Tool holder slide counter balance arrangement. 5.8 Metallic Telescopic Covers of stainless steel material shall be provided with wipers for guide ways. Joints of telescopic covers should be so sealed to avoid ingress of dust. 5.9 Suitable adaptor mechanism (with inbuilt lifting arrangements) for detachable head to fit on the existing ram. 5.10 Handling arrangement for easy mounting / dismounting of the head should be provided. 5.11 Lubrication points such as grease nipples, oil top up points should be provided wherever required. 5.12 Vendor shall submit GA drawings and explain the planned working mechanism along with the offer for technical evaluation. 5.13 Vendor shall submit the all GA and detailed drawings for approval before commencement of manufacturing. 5.14 The head and retrofit parts shall be offered for inspection at Vendor's Works by BHEL Engineers, before dispatch. Vendor to provide a quality plan for testing the head at vendor's works. 5.15 Details of special cuttings tools to suit the actual profiles to be machined, tool size for different tool holders. 5.16 2 Nos. of Tool Holders (to match our inserts: snmm250924 & cnmm250924), recommended by the BIDDER for complete machining of prove-out components (at BHEL Works) shall be offered and included in the Scope of Supply. 5.17 Itemized breakup of mechanical, electrical and electronic spares used on the head in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on three shifts continuous running basis should be offered by vendor. The list to include following, in addition to other recommended spares: (Unit Price of each item of spares should be offered). 5.18 All tools & accessories shall be of reputed make. Suppliers shall quote the make of each item in their offer. 5.19 Necessary tools like Torque Wrench, Spanners, Keys, grease gun etc. for operation and maintenance of the head should be supplied. List of such tools should be submitted with offer. 5.20 First fill of any kind of lubricant shall be provided by the			
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		supplier. 5.21 Tools, Tackles, Test Mandrels, instruments and other necessaryequipment including Laser equipment required to carry out commissioningactivities should be brought by the Vendor. 6.0 Documentation 6.1 Chamfering head shall be supplied with 3 sets of O&M manual.The Manual shall contain the details of a) General arrangement drawingb) Detailed drawing c) Operation manual with Maintenance details, d)Complete bill of material along with the bought out component catalogsindicating the model no. used on the head, e) All above documents in a CD. 6.2 Detailed specification of all rubber items, fittings, List ofbearings, belts etc., used to be provided. 6.3 Manufacturing drawings for all wearing components like bushes,pulleys, gears, clutch plates, etc. 6.4 Manufacturing drawings for all supplied tool holders, cutting tools,adapters, sleeves, fixtures etc. 6.5 Maintenance manual, Interface & Commissioning Manuals for modified CNC and PLC programs 6.6 Complete list of spares for equipment and accessories, along withitem part no / specification / type / model, and name & address ofthe spare supplier shall be furnished. 6.7 Modified PLC program printouts with comments in English. 6.8 Modified PLC program on CD, NC data & PLC data on CD 6.9 Complete back up of hard disk on CD and clear written Instructions(3 copies) to take back up and reloading of a new hard disk. 7.0 Erection and Commissioning 7.1 Erection and Commissioning shall be done by the supplier at BHELWorks and prove the performance. 7.2 Vendor to take full responsibility for supervision of the erection,vendor shall start up, test the machine, its control and all types ofother supplied equipment, carrying out machining of test pieces etc. 7.3 Geometrical accuracy test and positional accuracy test of chamferinghead to be conducted at BHEL site after erection and reports to besubmitted to BHEL . Commissioning of chamfering head is subjected togeometric accuracy & positional accuracy prove out. 7.4 The successful bidder has to make provision for inbuilt NC programsusing machine CNC system for machining of			
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		pipes with variable thickness and variable outer diameter (range specified above). 7.5 "JOB DEMONSTRATION: The successful bidder has to demonstrate at least one job of each chamfering style (as mentioned in Annexure-I) meeting BHEL Quality norms as job prove out. Then the vendor has to demonstrate the steps to dismount the chamfering head and run a trial cycle with existing programs in the machine. The vendor should also submit a write up on the procedures to mount and dismount the facing head and the necessary changes required in the software parameters." 7.6 The prove-out trials of chamfering head shall be for the job sizes given at the time of technical discussions / order release. 7.7 The Bidder shall depute his competent engineer(s) for supervising the erection and commissioning of the chamfering head at BHEL Works. 7.8 The Vendor shall impart training to BHEL's Machine Operators and Maintenance crew in Operation and Maintenance after the commissioning of the Machine at BHEL works for 6 working days 7.9 Vendor to take full responsibility for supervision of the erection, vendor shall start up, test the machine, it's control and all types of other supplied equipment, carrying out machining of test pieces etc. Service requirement like power, air & water shall be provided by BHEL at only one point to be indicated by Vendor in their foundation/layout drawings. Other requirements like crane and helping personnel shall also be provided by BHEL. 7.10 Tools, Tackles, Test Mandrels, instruments and other necessary equipment including Laser equipment required to carry out all above activities should be brought by the Vendor. 8.0 Point to point confirmation of technical data shall be offered by the supplier, otherwise the offer may be rejected. 9.0 The interested bidders are advised to make a visit to BHEL, PPPU - Thirumayam to study the present condition of the machine and understand the functional requirement of the project.			
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TRICHY, BHEL, TRICHY, POSTAL CODE :620014, TIRUCHIRAPALLI, TAMIL NADU, INDIA

ATTRIBUTE DETAILS	ATTRIBUTE NAME	ATTRIBUTE VALUE
	MATERIAL CODE:	52RC NO
	MATERIAL GROUP:	52RC
	KILOGRAM PER UNIT:	0.0
	Cenvatable (Yes / No)	Yes
	Delivery Location	TAMIL NADU
	Vatable (Yes / No)	Yes
	Delivery Date (i) :	01-JUL-2017
	Delivery Qty (i) :	1





TRICHY, BHEL, TRICHY, POSTAL CODE :620014, TIRUCHIRAPALLI, TAMIL NADU, INDIA

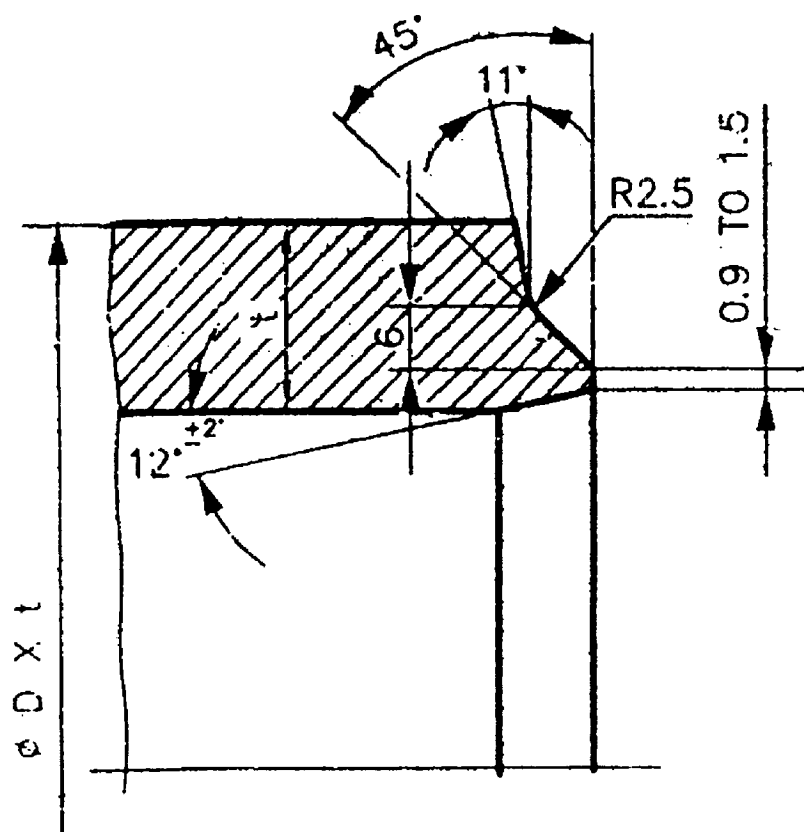
IMPORTANT NOTICE

PLEASE READ THE FOLLOWING ATTACHMENT(S) [SEPARATELY DOWNLOADABLE] ALONG WITH THIS RFQ/NIT/ENQUIRY .

RFQ/NIT/ENQUIRY - ATTACHMENTS

LABEL	FILE NAME
Annexure-A	Annexure-A .docx
Annexure-B Model Price Bid	Annexure-B Model Price Bid.docx
ANNEXURE - I	ANNEXURE - I.pdf



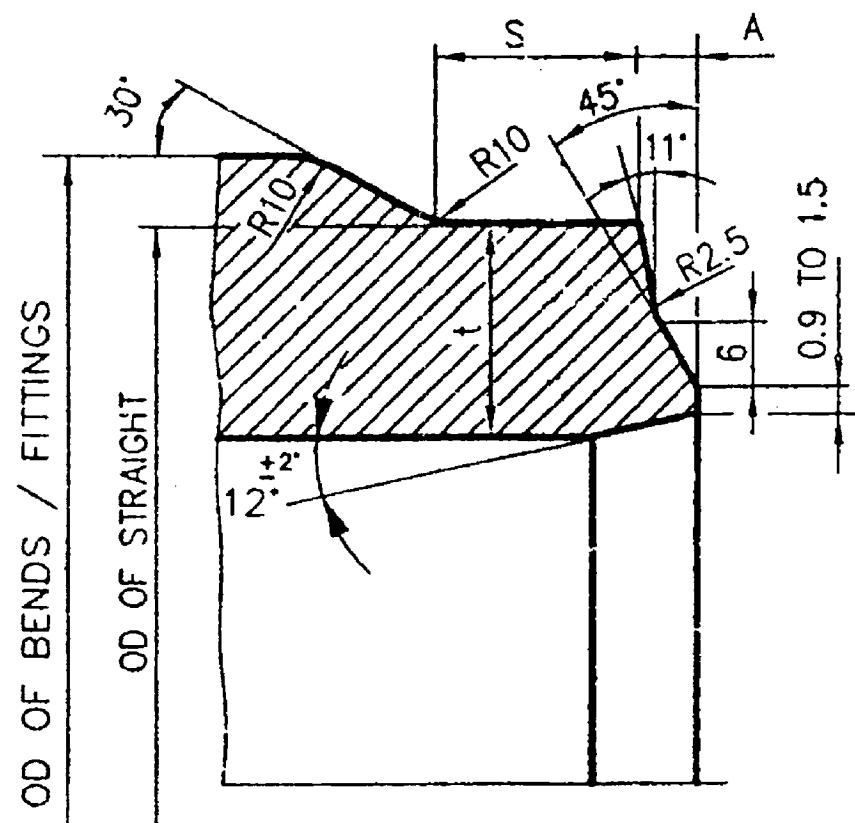


USE WHEN $t \geq 14.2$ mm.

STYLE - P

ANNEXURE - 1
Drg No. CABS-1-16 - 01
BHEL, Tiruchirappalli

02. WHEN $t < 65$ $S+A = 65$ Min. & $t > 65$, $S=65$ Min.
 WHERE t =THK OF CONN. PIPE (STRAIGHT).



STYLE - Pa

ANNEXURE - 1
Drg No. CABS-1-16-02
BHEL, Tiruchirappalli

NOTES: -

01. APPLICABLE FOR P91 MATERIAL
02. FOR OD MISMATCHING REF. FIGURE-Xa.
03. $\alpha = 6^\circ$ FOR WALL THICKNESS ≤ 30 mm
04. $\alpha = 10^\circ$ FOR WALL THICKNESS > 30 mm

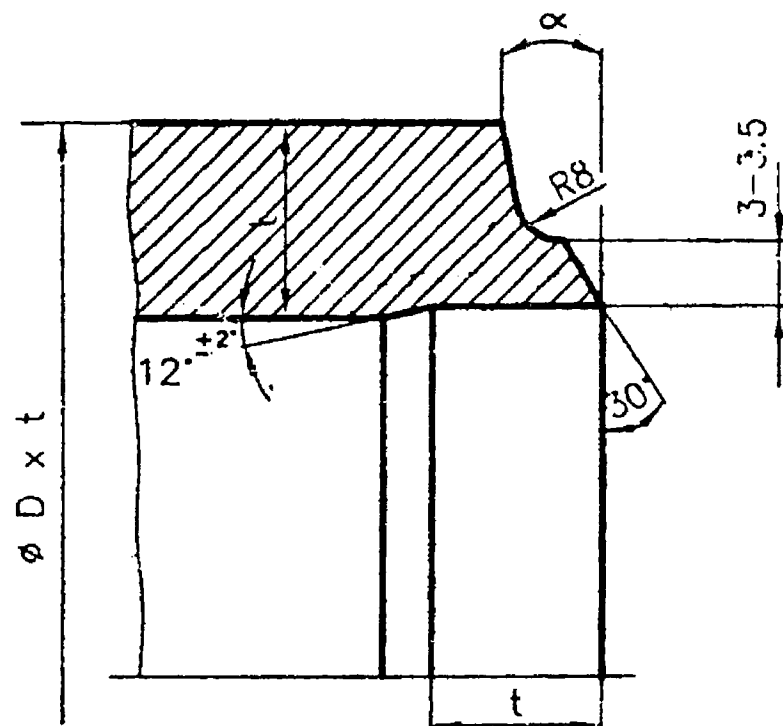


FIGURE - X

NOTES: -

01. OD OF STRAIGHT TO BE PHYSICALLY MEASURED/VERIFIED
02. $\alpha = 6^\circ$ FOR WALL THICKNESS ≤ 30 mm
03. $\alpha = 10^\circ$ FOR WALL THICKNESS > 30 mm

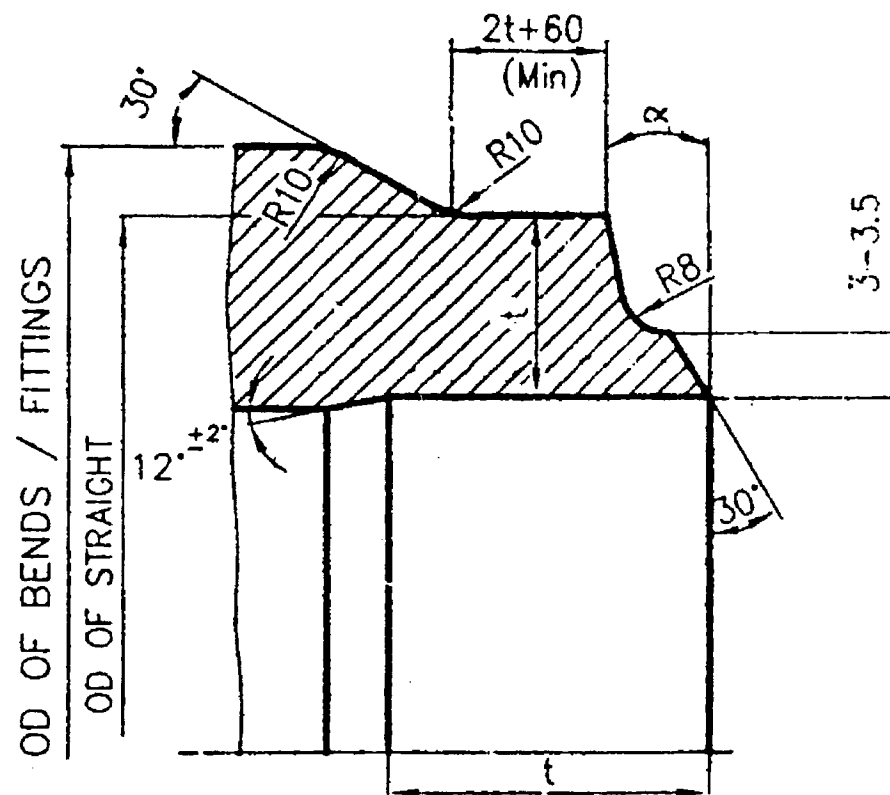


FIGURE - Xa

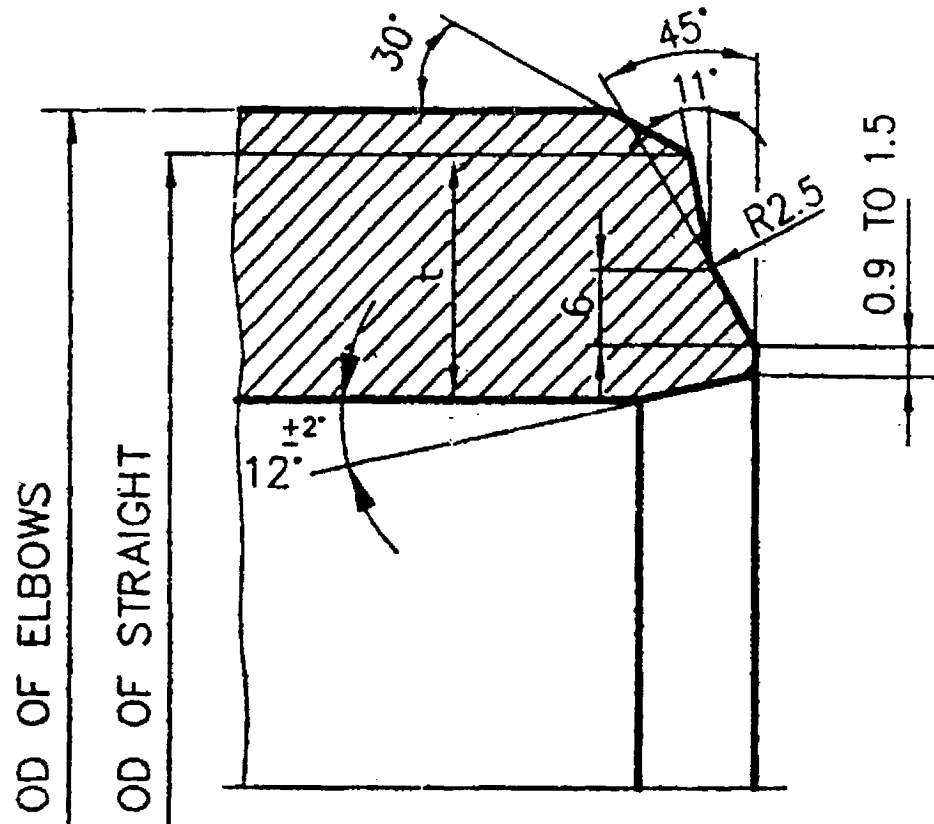
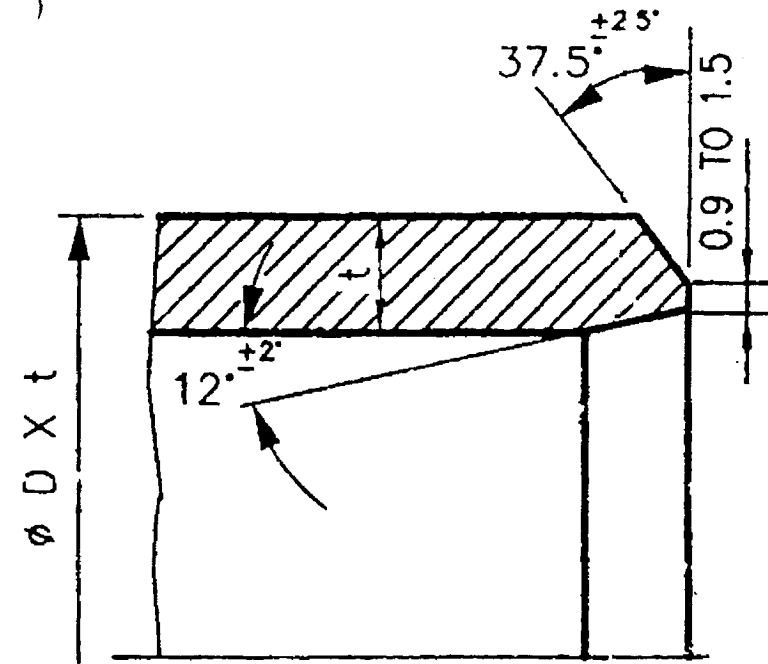


FIGURE - Z



STYLE - D

NOTES: -

01. USE WHEN $t < 14.2$ mm.

ANNEXURE - 1
Drg No CABS-1-16 - 03
BHEL, Tiruchirappalli

**Retrofitting of CNC Horizontal Boring Machine with
Detachable Pipe Chamfering Head**

PART-A: PRE-QUALIFICATION CRITERIA

Sl. No.	Description	Bidder's Response
a	The bidder should have experience in retrofitting of CNC machines for minimum 2 years.	
b	Bidder should have completed atleast one chamfering head interfacing in CNC machine. PO copy for the same should be submitted along with the offer.	
c	Satisfactory performance certificate of the same from customer shall be submitted along with details (Name of contact person, Address, E-Mail id, Phone no., etc.,) of the customer.	
d	Overview of retrofitting project(s) completed shall be provided for understanding the capabilities of bidder.	



AMBALAVANAN R
SR MANAGER
M&S Electrical Maintenance
PPPU - BHEL
THIRUMAYAM - 622507

Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head
PART - B: TECHNICAL SPECIFICATIONS

Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
1.0	Short description				
1.1	Detachable Pipe chamfering head suitable for mounting on Juaristi, Spain make 5-Axis CNC Horizontal boring machine, Model No. MX 5 RAM		vendor to confirm		
1.2	Chamfering head shall draw its power for rotary as well as tool movement from existing machine spindle.		Vendor to confirm		
1.3	The head is meant for Facing and Edge Preparation of straight & bend pipes which are clamped on the table of the machine. The head shall be capable of generating various profiles of edge preparation on the pipes. The details of EP shall be as per annexure-1.		Vendor to confirm and specify the method of operation.		
1.4	Tooling system shall consist of a. A base tool holder mounted on faceplate slide using Standard ISO Indexable carbide inserts capable of generating all edge preparation styles indicated in ANNEXURE-1		Vendor to confirm		
1.5	Material to be cut: A) CARBON STEEL: SA 106 Gr.B /Gr C (ASTM), AP15L Gr B (ASTM) B) ALLOY STEEL: SA 335 P11, P12 & P22, P91, SA 312 TP304H, SA 312 TP316 L		Vendor to confirm		
2.0	Technical Parameters	BHEL Requirement			
2.1	MINIMUM JOB DIA TO BE WORKED	219 mm	Vendor to confirm		
2.2	MAXIMUM JOB DIA TO BE WORKED	1400 mm	Vendor to confirm		
2.3	MAXIMUM JOB THICKNESS	120mm	Vendor to confirm		




Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head
PART - B: TECHNICAL SPECIFICATIONS

Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
2.4	MAXIMUM SPINDLE TORQUE	1813 Nm	Vendor to note.		
2.5	MAX BORING & TURNING DEPTH	270mm	Vendor to confirm		
2.6	TOOL SLIDE AXIS RESOLUTION	Minimum (Least possible)	Vendor to specify		
2.7	CUTTING SPEED	100-150 metres /minute	Vendor to specify		
2.8	DEPTH OF CUT	up to 8 mm	Vendor to specify		
2.9	CUTTING FEED	0.2-0.6 mm / revolution	Vendor to specify		
2.10	Tool Slide Details				
A	Tool Slide (U-Axis) Stroke (max) in mm		Vendor to Specify		
B	Accuracy of Tool slide Axis (U-Axis)		Vendor to Specify		
C	Repeatability		Vendor to Specify		
D	Squareness of Tool movement w.r.t U Axis		Vendor to confirm		
E	Distance between Table face & Z-Axis face	300 mm	Vendor to note		
3.0	Mechanical features of Existing machine				
3.1	RAM CROSS TRAVEL Z AXIS	1000 mm	Vendor to note		



RAM
11/3/17

Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head
PART - B: TECHNICAL SPECIFICATIONS

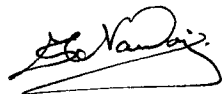
Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
3.2	Z AXIS RAPID FEED RATE	15000 mm/ min	Vendor to note		
3.3	Z AXIS WORKING FEED RATE	0-8000 mm / min	Vendor to note		
3.4	Z AXIS POSITIONING ACCURACY	0.01 mm/1000 mm	Vendor to note		
3.5	Z AXIS REPEATABILITY	0.008 mm	Vendor to note		
3.6	Z AXIS DRIVE MOTOR	63 Nm	Vendor to note		
3.7	Z AXIS DRIVE MOTOR RPM	2000	Vendor to note		
3.8	SPINDLE AXIAL TRAVEL W AXIS (max)	700 mm	Vendor to note		
3.9	W AXIS RAPID FEED RATE	15000 mm / min	Vendor to note		
3.10	W AXIS WORKING FEED RATE	0-8000 mm / min	Vendor to note		
3.11	W AXIS POSITIONING ACCURACY	0.01 mm/1000 mm	Vendor to note		
3.12	W AXIS REPEATABILITY ACCURACY	0.008 mm	Vendor to note		
3.13	W AXIS DRIVE MOTOR	63 Nm	Vendor to note		
3.14	W AXIS DRIVE MOTOR RPM	2000	Vendor to note		
3.15	MAIN SPINDLE DIAMETER	160 mm	Vendor to note		




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Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head
PART - B: TECHNICAL SPECIFICATIONS

Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
3.16	MAIN SPINDLE MOTOR POWER	37 kW	Vendor to note		
3.17	SPEED RANGES	2	Vendor to note		
3.18	ROTATION SPEED RANGE I	5 - 844 / min	Vendor to note		
3.19	ROTATION SPEED RANGE II	844 - 3000 / min	Vendor to note		
3.20	TOOL HOLDER	ISO 50	Vendor to note		
3.21	RAM FACE PLATE DIMENSIONS	420 mm x 450 mm	Vendor to note		
4.0	Electrical and control features of Existing machine				
4.1	CNC system	Siemens Sinumeric 840D	Vendor to note		
4.2	NCU Card	Siemens, 6FC5357-0BB25-0AA0; NCU 572.5, 650 MHz, 64 MB	Vendor to note		
4.3	Spindle Motor	Make: Siemens Part No.: 1PH7167-2NF23-0LC0 380 V, 82 A, pf. 0.85 Maximum power: 37 kW Maximum torque: 1813 Nm Speed ranges: 2, Low: 5-844 rpm, High: 844 - 3000 rpm	Vendor to note		
4.4	Spindle Drive	Siemens 6SN1123-1AAO1-OFA1; LT Module; INT 200A with control card: 6SN1118-ODM33-OAA2	Vendor to note		



RAM 11/2/17

Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head
PART - B: TECHNICAL SPECIFICATIONS

Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
5.0	General Points				
5.1	Geared Head unit shall be of fully enclosed type with Integral facing unit		Vendor to confirm		
5.2	Maximum feed force for tool slide axis		Vendor to specify		
5.3	Details of Feed back system for tool slide axis		Vendor to specify		
5.4	Details of mechanism inside head		Vendor to furnish details		
5.5	Chuck plate diameter		Vendor to furnish details		
5.6	Feed rate of Tool holder slide U-axis (continuous variable)	0 – 1000 mm/min	Vendor to furnish details		
5.7	Tool holder slide counter balance arrangement.		Vendor to furnish details		
5.8	Metallic Telescopic Covers of stainless steel material shall be provided with wipers for guide ways. Joints of telescopic covers should be so sealed to avoid ingress of dust.		Vendor to furnish details		
5.9	Suitable adaptor mechanism (with inbuilt lifting arrangements) for detachable head to fit on the existing ram.		Vendor to furnish details		
5.10	Handling arrangement for easy mounting / dismounting of the head should be provided.		Vendor to furnish details		
5.11	Lubrication points such as grease nipples, oil top up points should be provided wherever required.		Vendor to furnish details		
5.12	Vendor shall submit GA drawings and explain the planned working mechanism along with the offer for technical evaluation.		Vendor to submit		



RAM
11/3/17

Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head
PART - B: TECHNICAL SPECIFICATIONS

Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
5.13	Vendor shall submit the all GA and detailed drawings for approval before commencement of manufacturing.		Vendor to confirm		
5.14	The head and retrofit parts shall be offered for inspection at Vendor's Works by BHEL Engineers, before dispatch. Vendor to provide a quality plan for testing the head at vendor's works.		Vendor to furnish details		
5.15	Details of special cuttings tools to suit the actual profiles to be machined, Tool size for different tool holders		Vendor to furnish details		
5.16	2 Nos. of Tool Holders (to match our inserts: snmm250924 & cnmm250924), recommended by the BIDDER for complete machining of prove out components (at BHEL Works) shall be offered and included in the Scope of Supply.		Vendor to furnish details		
5.17	Itemized breakup of mechanical, electrical and electronic spares used on the head in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on three shifts continuous running basis should be offered by vendor. The list to include following, in addition to other recommended spares: (Unit Price of each item of spare should be offered)		vendor to confirm		
5.18	All tools & accessories shall be of reputed make. Suppliers shall quote the make of each item in their offer.		Vendor to furnish details		
5.19	Necessary tools like Torque Wrench, Spanners, Keys, grease guns etc. for operation and maintenance of the head should be supplied. List of such tools should be submitted with offer.		vendor to confirm		
5.20	First fill of any kind of lubricant shall be provided by the supplier.		vendor to confirm		
5.21	Tools, Tackles, Test Mandrels, instruments and other necessary equipment including Laser equipment required to carry out commissioning activities should be brought by the Vendor.		Vendor to furnish details		

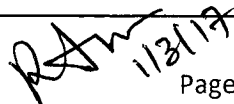


RAM 1/13/17

Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head
PART - B: TECHNICAL SPECIFICATIONS

Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
6.0	Documentation				
6.1	Chamfering head shall be supplied with 3 sets of O&M manual. The Manual shall contain the details of a) General arrangement drawing b) Detailed drawing c) Operation manual with Maintenance details, d) Complete bill of material along with the bought out component catalogs indicating the model no. used on the head, e) All above documents in a CD.		Vendor to confirm		
6.2	Detailed specification of all rubber items, fittings, List of bearings, belts etc., used to be provided.		Vendor to confirm		
6.3	Manufacturing drawings for all wearing components like bushes, pulleys, gears, clutch plates, etc.		Vendor to confirm		
6.4	Manufacturing drawings for all supplied tool holders, cutting tools, adapters, sleeves, fixtures etc.		Vendor to confirm		
6.5	Maintenance manual, Interface & Commissioning Manuals for modified CNC & PLC programs		Vendor to confirm		
6.6	Complete list of spares for equipment and accessories, along with item part no / specification / type / model, and name & address of the spare supplier shall be furnished.		Vendor to confirm		
6.7	Modified PLC program printouts with comments in English.		Vendor to confirm		
6.8	Modified PLC program on CD, NC data & PLC data on CD		Vendor to confirm		
6.9	Complete back up of hard disk on CD and clear written Instructions (3 copies) to take back up and reloading of a new hard disk.		Vendor to confirm		
7.0	Erection and Commissioning				
7.1	Erection and Commissioning shall be done by the supplier at BHEL Works and prove the performance.		Vendor to confirm		

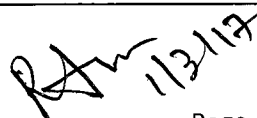


 11/3/17

Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head

PART - B: TECHNICAL SPECIFICATIONS

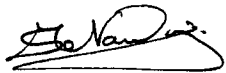
Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
7.2	Vendor to take full responsibility for supervision of the erection, vendor shall start up, test the machine, its control and all types of other supplied equipment, carrying out machining of test pieces etc.		Vendor to confirm		
7.3	Geometrical accuracy test and positional accuracy test of chamfering head to be conducted at BHEL site after erection and reports to be submitted to BHEL . Commissioning of chamfering head is subjected to geometric accuracy & positional accuracy prove out.		Vendor to confirm		
7.4	The successful bidder has to make provision for inbuilt NC programs using machine CNC system for machining of pipes with variable thickness and variable outer diameter (range specified above) .		Vendor to confirm		
7.5	JOB DEMONSTRATION: The successful bidder has to demonstrate atleast one job of each chamfering style (as mentioned in Annexure-I) meeting BHEL Quality norms as job prove out. Then the vendor has to demonstrate the steps to dismount the chamfering head and run a trial cycle with existing programs in the machine. The vendor should also submit a write up on the procedures to mount and dismount the chamfering head and the necessary changes required in the software parameters.		Vendor to confirm		
7.6	The prove-out trials of chamfering head shall be for the job sizes given at the time of technical discussions / order release.		Vendor to confirm		
7.7	The Bidder shall depute his competent engineer(s) for supervising the erection and commissioning of the chamfering head at BHEL Works.		Vendor to confirm		
7.8	The Vendor shall impart training to BHEL's Machine Operators and Maintenance crew in Operation and Maintenance after the commissioning of the Machine at BHEL works for 6 working days		Vendor to confirm		

Retrofitting of CNC Horizontal Boring Machine with Detachable Pipe Chamfering Head

PART - B: TECHNICAL SPECIFICATIONS

Sl. No.	Features	BHEL Requirement	Action	Bidder's Response	Deviation, if any
7.9	Vendor to take full responsibility for supervision of the erection, vendor shall start up, test the machine, it's control & all types of other supplied equipment, carrying out machining of test pieces etc. Service requirement like power, air & water shall be provided by BHEL at only one point to be indicated by Vendor in their foundation/layout drawings. Other requirements like crane and helping personnel shall also be provided by BHEL.		Vendor to confirm		
7.10	Tools, Tackles, Test Mandrels, instruments and other necessary equipment including Laser equipment required to carry out all above activities should be brought by the Vendor.		Vendor to confirm		
8.0	Point to point confirmation of technical data shall be offered by the supplier, otherwise the offer may be rejected.		Vendor to confirm		
9.0	The interested bidders are advised to make a visit to BHEL, PPPU - Thirumayam to study the present condition of the machine and understand the functional requirement of the project.		Vendor to note		



RAV 11/3/17

AMBALAVANAN R
SR MANAGER
M&S Electrical Maintenance
PPPU - BHEL
THIRUMAYAM - 622507

BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI
CAPITAL PURCHASE

Annexure-A

ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE VENDORS.

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, BHEL reserves the right to reject such offer)

CHECK-LIST FOR VENDORS

Sl. No.	DESCRIPTION
1.	❖ The Bidders shall submit their offer through E-Procurement website only www.bheleps.buyjunction.in. ❖ Part I - Technical and Commercial Bid: This should contain all the copies of technical bid together with un-priced commercial bid. ❖ Part II - Price Bid: This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part I. Offers will be accepted & received till 14.00 Hr. on the due date. Therefore Vendors shall ensure to submit the offers before this time. Late offers will not be considered. Bidders are requested to refer to attached “DSC Guidelines” & “e Proc Vendor Communication” for submission of tender through EPS. Offers should be in ENGLISH and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in ENGLISH or otherwise, the offers will not be considered. In case of necessity BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in this Annexure-A (Point No.19).
2.	OPENING OF TENDERS: The Part I - Technical & commercial bid alone would be opened on the Tender opening date through EPS. The Part II - Price bid of technically suitable Bidders alone would be opened through EPS. The Technically Suitable Bidders would be informed about the Price Bid opening date through e-mail / EPS Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - Price bid.
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 / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005 dtd 01.01.2007, TNGST No. 3560005, CST. No. 239383 dtd 11-06-1991 & BHEL ECC No. AAACB4146PEM025, Service Tax Registration No (STC)- AAACB4146PSD068. Assessment circle Pudukottai.
4.	Special Provisions for Micro and Small Enterprises (MSE) 20% of the tendered quantity is earmarked for MSE suppliers in this tender. - Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs. - In case MSE vendor participating in the tender quotes within the price band of L-1+15%, they will be allowed to supply the portion of the requirement subject to acceptance of L-1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately. - MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II (Entrepreneur Memorandum Part II) certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed as per Annexure - C) applicable for the relevant financial year (latest audited), certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Offer/s received without these documents will lead to consideration of their offer at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier.

No row shall be left blank. Please indicate NA, in case the item is "Not Applicable"		Vendor's confirmation
5.	Validity: Validity of the offer should be 120 days from the date of tender opening.	
6.	Release of Purchase Order: - Purchase Orders will be released on respective L1 vendor for each line items. - Separate orders for supply & service will be released on the successful L-1 vendor for each line items. (Service order released only in the case of, Installation / erection / commissioning portion are applicable on tender scope & quoted separate charge for same by vendor).	
7.	Payment Terms for supply Portion: a) 80% of payment will be released after receipt & acceptance of supplied material. b) Balance 20% of payment will be released within 45-90 days after receipt, acceptance & commissioning of supply materials against submission of 10% PBG for a Warrantee period of 18 Months. Installation & Commissioning Portion (if applicable only): 100% of the installation / commissioning charges (in case contract involves erection / installation / commissioning) shall be paid only on completion of such erection / commissioning at BHEL, Thirumayam. Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of bid opening. Techno commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.	
8.	Performance Bank Guarantee (PBG): The bidder in the event of an order, should furnish a Bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a format prescribed by BHEL, along with the order, for an amount equivalent to 10% (Ten percent) of the value of the contract. The PBG shall be valid for a period of 18 months from the date of despatch or 12 months from the date of receipt / acceptance / commissioning of equipment at BHEL, Thirumayam whichever is more, with a claim period of two months. The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member bank in our consortium of Banks: List of Consortium Banks DEUTSCHE BANK, HDFC BANK, ANZ GRINDLAYS BANK, CITI BANK, STANDARD CHARTERED BANK, BANK OF AMERICA, ABN AMRO BANK, IDBI LTD, ICICI BANK LTD, THE HONGKONG & SHANGHAI BANKING CORPORATION LTD. List of Nationalised Banks ALLAHABAD BANK, ANDHRA BANK, BANK OF INDIA, BANK OF BARODA, BANK OF MAHARASTHRA, BHARAT OVERSEAS BANK, CANARA BANK, CENTRAL BANK OF INDIA, CORORATION BANK, DENA BANK, INDIAN BANK, INDIAN OVERSEAS BANK, ORIENTAL BANK OF COMMERCE, PUNJAB NATIONAL BANK, PUNJAB & SINDH BANK, STATE BANK OF INDIA, STATE BANK OF TRAVANCORE, STATE BANK OF MYSORE, STATE BANK OF BIKANER & JAIPUR, STATE BANK OF HYDERABAD, STATE BANK OF PATIALA, STATE BANK OF MAHARASTHRA, STATE BANK OF SOURASTHRA (SBI-13.09.08), SYNDICATE BANK, UCO BANK, UNION BANK OF INDIA, UNITED BANK INDIA, VIJAYA BANK. <u>If PBG is issued by foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG, it will be lodge in any one of the Indian counters of the Foreign Bank which issued the PBG.</u>	
9.	Liquidated Damages (LD): The delivery of the goods specified in the purchase order should be made within the time prescribed. LD for delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&C'. Where the seller supplies or dispatches the goods, beyond the delivery period Liquidated damages shall be applicable 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value. Detail of LD mode are shown below Single Delivery Date (Material Dispatched after Due date) Once the delivery due date is crossed, bills have to be clubbed till final despatch and forwarded for processing of payment as a single bunch. LD percentage will be calculated from Delivery due date to final despatch date. (100% Order should be completed for processing the bill) Staggered Delivery LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value. PO Pending value (each Bill Value) up to Max 10 % of Total PO value) <i>Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value). For the purpose of Imposing LD, the FOB delivery (B/L date) shall be considered. Bidder should indicate the LD mode (single delivery or staggered delivery) on the confirmation column, otherwise single delivery date will be considered for further evaluation</i>	
10.	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 from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.	
11.	Delivery Terms and evaluation process: Indian Bidders should submit their offer for FOR-PPPU, BHEL, Thirumayam basis . Packing & Forwarding and Freight & Insurance charges from works to BHEL, Thirumayam to be indicated separately if extra from basic rate. Applicable % of ED & Sales Tax, Commissioning Charges should be clearly indicated. Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL-PPPU, Thirumayam).	

12.	Guarantee: Vendors shall provide a guarantee for a period of 12 months from the date of commissioning of the equipment or 18 months from date of supply, whichever is earlier. The date of B/L or AWB shall be taken as the date of supply. <u>Offers from vendors not accepting the requested guarantee period will be rejected.</u>	
13.	Short shipment / Warranty replacement: In case of any short shipment in the main equipment / spares, customs duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the warrantee period shall be on FOR-BHEL, PPPU, Thirumayam basis.	
14.	Inspection & Testing: All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL stores or at any other place in India indicated by BHEL as the case may be. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch however, final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, PPPU, Thirumayam.	
15.	Test certificates / Operating and Maintenance manuals : The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.	
16.	Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value. Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.	
17.	BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.	
18.	If offers are received from both OEM/ Manufacturer and authorized Dealer or Agent, then offer submitted by OEM/ Manufacturer will only be considered, offer of Dealer or Agent will be ignored.	
19.	Reverse Auction (RA): 1. BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. Techno-commercially acceptable Bidders shall only be eligible to participate in the Reverse Auction. 2. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). 3. The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates. 4. If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). 5. As a reminder to the bidders, system will flash following message (in RED Colour) during the course of 'online sealed bid'-"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL". 6. BHEL shall engage the services of a Service Provider, who shall extend all necessary training and assistance before commencement of ON-LINE-BIDDING through Internet, at NO extra-cost to the Bidders. Eligible Bidders shall be informed in writing, about the details of Service Provider, to enable Vendors to contact the Service Provider and get trained. Event Date, Time, Start Price, Bid Decrement, Time-Extensions, etc. shall also be communicated through the Service Provider for compliance by Bidders. 7. BHEL shall provide the calculation sheet through the Service Provider, which shall be helpful to arrive at "TOTAL COST to BHEL", like Packing and Forwarding Charges, Taxes and Duties, Freight Charges, Insurance, Service Tax and other loading factors (for non-compliance to BHEL Standard Commercial Terms and Conditions), for each of the Bidder, to enable them to fill in the price and keep it ready for inputting data during the RA. 8. Successful bidder shall be required to submit the final prices (L1) in prescribed format for price breakup including that of line items, if required, quoted during the Online Reverse Auction, duly signed and stamped as token of acceptance without any new condition to the Service Provider, within 2 working days of RA without fail. 9. Any variation between the final bid value and that in the confirmatory signed price breakup document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on www.bhel.com). 10. If the Bidder or any of his representatives are found to be involved in Price manipulation / cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines shall be initiated by BHEL and results of the RA scrapped / aborted. 11. In case BHEL decided to go for Reverse auction, the H-1 bidder(s) (whose quote is highest in the online sealed bid) may not be allowed to participate in further Reverse Auction.	
20.	ARBITRATION: All disputes or differences whatsoever which may arise at any time during execution of the Contract shall be mutually settled by BHEL and Contractor as per provision of the Contract. However, in the event such disputes cannot be settled mutually, such disputes shall be settled as per the Arbitration and reconciliation Act, 1996 of the Govt. of India and it's subsequent amendments. In case of disputes with the Central PSUs, the same shall be settled at Tiruchirappalli as per the Guidelines of the Govt. of India. However, during the period such disputes are settled either by mutual discussions between the parties or by legal means, Contractor shall continue to do the work as per terms & conditions of Contract.	

21.	➤ Point to point confirmation for the Technical Specification enclosed to be provided. If there are any deviations, the same should be clearly specified. Offers received without confirmation to our specifications will be liable for rejection. If needed additional sheets shall be used. ➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipment's will not be accepted. Incomplete offers will not be considered for further processing. ➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units. ➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL. ➤ The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost ➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.		
22.	Company Details & Contact		
	Full Address of the company for future correspondence / placing order. (Copy of address proof & PAN card shall be attached along with Part-I)		
	Company Email ID:	Phone No.:	
	Fax No	Pan No with copy	
	CST /TIN No		
	Name of the contact person:	Mobile No.:	
	e-mail ID		
23.	TO BE CONFIRMED BY VENDOR		
	Country of origin:		
	Station of dispatch / Port Of Shipment		
	Delivery Terms (FOR Destination / Ex-works)		
	Packing & Forwarding Charges in % or Lump sum, if extra from basic rate		
	% of Excise Duty with cess		
	% of TAX (CST / VAT) (TNGST with FORM-17 or CST with C-FORM)		
	(If applicable only) Installation & Commissioning charge is inclusive (or) exclusive on basic rate.		
	Service Tax extra or Not		
	Freight & Transit insurance charges (if any, in Lumpsum (or) percentage) from Dispatching station to BHEL, PPPU, Thirumayam.		
24.	DELIVERY SCHEDULE: Supply Portion: Delivery schedule from the date of Letter of Intent / Purchase Order. (This should be inclusive of Order acceptance, drawing approval and time period required for receiving goods at BHEL, PPPU, Thirumayam etc.)		
	Time period required for Installation / Erection & Commissioning from date of site clearance given by BHEL, PPPU, Thirumayam.		
25.	Weight & Cubage of package: Approximate Net weight of the total consignment: Approximate Gross weight of the total consignment: Approximate volume of the total consignment:		
For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail <petterri@bheltry.co.in>			

NOTE:-

- a) Your specific acceptances to our Payment terms, LD, Risk Purchase Clause are essential for consideration of your offer. Otherwise your offer is liable for rejection.
- b) No row shall be left blank. Please indicate NA, in case the item is "Not Applicable"

Declaration:-

We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

Name:

Designation:

Department:

(Please Affix Your Signature with Seal on Each Page)

Certificate by Chartered Accountant

This is to Certify that M/s.
hereinafter referred to as 'company') having its registered office at
..... is registered under MSMED Act 2006,
Entrepreneur Memorandum No (Part - II)
dtd:.....
Category :.....(Micro / Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company
as on date as per MSMED Act 2006 is as follows:

1. For Manufacturing Enterprises: Investment in plant and machinery (i.e.
original cost excluding land and building and the items specified by the
Ministry of Small Scale Industries vide its notification No.5.0.1722(E) dated
October 5, 2006:

Rs.....Lacs

2. For Service Enterprises: Investment in equipment (original cost excluding
land and building and furniture, fittings and other items not directly related
to the service rendered or as may be notified under the MSMED Act, 2006:

Rs.....Lacs

The above investment of Rs..... Lacs is within permissible limit of
Rs.....Lacs for Micro / Small (Strike off which is not applicable) Category under
MSMED Act 2006.

Date:

(Signature)

Name -

Membership Number -

Seal of Chartered Accountant

Annexure-B**Bharat Heavy Electricals Limited TIRUCHIRAPPALLI/CAPITAL PURCHASE****MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

Enquiry No. & Date:

Bidder's Offer No. & Date:

Sl. No.	Description of item	Unit (Set / No.)	QTY	Basic Rate / Qty. in Rs. (excluding all Taxes)	ED in %	VAT / CST in % (TNGST with FORM-17 or CST with C-Form)	Service Tax in %	Total Value in Rs. (Including all taxes & duties)
10	Supply Portion							
20	Installation and Commissioning Charges for Sl. No: 10 (if available in tender scope and exclusive from basic rate for supply portion)							
	Total Value in Words:							
	Packing & Forwarding charges (if any) in percentage (or) Lump sum							
	FOR Dispatching station value in Rs.							
	Percentage of Freight & transit insurance charges, if any (Lumpsum or %) Freight & Insurance charges from Dispatching station to BHEL, PPPU, Thirumayam							
	Approximate Net weight of the total consignment							
	Approximate Gross weight of the total consignment							
	Approximate Dimensions of the Consignment							

Signature & Seal of Vendor

The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "Not Applicable".

DSC GUIDELINES

It should be DSC (Digital Signature Certificate) (**Class 3- SHA2- 2048 BIT-WITH BOTH SIGNING & ENCRYPTION COMPONENT SEPARATELY**)

For DSC GUIDELINES & steps regarding procurement & further tasks to be done to submit offer as follows:

The Requirement:

1. A PC with Internet connectivity.
2. DSC (Digital Signature Certificate) (**Class 3- SHA2- 2048 BIT-WITH BOTH SIGNING & ENCRYPTION COMPONENT SEPARATELY**)
3. JRE 1.6 must be installed in your system.

The process of utilizing e-procurement necessitates usage of **DSC (Digital Signature Certificate) (Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION)** and you are requested to procure the same immediately, if not presently available with you. Please note that only with DSC, you will be able to login the e-procurement secured site and take part in the tendering process.

The contact details of the DSC Certifying Authority as given below

1	e-Mudhra	http://www.e-Mudhra.com	5	NIC	www.safescrypt.com
2	GNFC	www.ncodesolutions.com	6	Safescrypt	www.safescrypt.com
3	IDRBT	www.idrbtca.org.in	7	TCS	www.tcs-ca.tcs.co.in
	MTNLTrustline	www.mtnltrustline.com			

(Other)DSC Contact details:

Ms. Solly (M/s. R3 eConsulting Pvt Ltd)

Mobile : 9444841015

Tel Nos. 044 2815 2670 / 72 / 4207 0906

Email : chennai@sgs-ds.com, soy@saspartners.com

chennai@saspartners.com

We have finalized the e-procurement service Provider as,

M/s m Junction services Limited, Kolkata

Godrej Water Side, 3rd Floor, Tower-1, Plot-V, Block - DP

Sector - V, Salt Lake, Kolkata-700091, West Bengal, INDIA

Please get in touch at below numbers for any issues related to bid submission in EPS.

	NAME	e-Mail ID	Land Phone No	ROLE
1	Mr. P Peter Raj -	'peter.raj@mjunction.in'	09942069052	
			Landline : 033-66106217/ 6013/ 6426/ 6176/ 6046 (From 9:30am to 5:30pm)	
2	HELP DESK	eps.customercare@mjunction.in	033-66106426/ 6217/ 6013/ 6046/ 6176 9163348283/ 9163348284/ 9163348285/ 9163348286/ 8584008116 (From 5:30pm to 8:30pm)	
3	Mr. Harish Kumar Ramu	harish.ramu@mjunction.in	(+91) 09840704941	
4	Mr. DHANARAJ.P	p.dhanaraj@mjunction.in panneer.dhanaraj@mjunction.in	(+91) 9500199108, (+91) 9282403700	Customer Relationship Manager
5	Mr. Saumendu Neogi	saumendu.neogi@mjunction.in	(+91) 9163348205	PROJECT MANAGER
6	Mr. R. Vishwanathan	r.vishwanathan@mjunction.in	(+91) 9163348242	Business Analyst

After procurement of Digital Certificate kindly follow the process below **for properly login into the BHEL EPS portal.**

1. Please install JRE 1.6 and your Digital Certificates (Class 3) for sign in and encryption.
 2. Please install net meeting software like TeamViewer (www.teamviewer.com) for online support.
 3. You are required to login to <https://bheleps.buyjunction.in> and click **Sign in**
 4. Key in your login code and password and click **Enter**
 5. System will ask you to change password,
 6. Again login with new password
 7. System will show sign in certificate, Select your sign in certificate and click **OK**
 8. You will be logged out automatically
 9. Contact Buyer for certificate approval
 10. After your certificate is approved by Buyer, login again with login code and new password
 11. Select Digital certificate
 12. On the top right hand margin you will find "**Digital Certificate**" Click on "**Digital Certificate**"
 13. Select "**For Encryption**" Radio button if you have **2048** bit certificate. Else you select "**Both**" Radio button if you have **1024** bit certificate.
 14. System will display your encryption certificate, Select the same
 15. New window will appear showing thumbprint of certificate, Click "**CLOSE**"
- Then Click "Exit"

Now follow the steps for submission of the tender.

Go to "**TENDERS**" and then click on then "**VIEW**" button. Than select status as "**OPEN FOR QUOTATION SUBMISSION**" and click on the "**ENTER**" button. This will display all the eligible RFQs and then you can click on the relevant RFQ to view all the RFQ details.

- After clicking on the RFQ you would be able to see the RFQ details.
- To view all the items attached to the RFQ, you can click on "**VIEW ITEMS**" button. By clicking on "**BACK**" you can go back to the RFQ header. Now you need to click on "**Response to RFQ/NIT**".
- You will be landed to the RFQ/NIT details page where you will be able to see the Item details.
- To go back to the RFQ you have to click on the "**BACK TO RFQ**" button.
- To respond to the RFQ you have to click on "**RESPOND TO RFQ/NIT**" button and you will be taken to the Terms And Condition page.
- To participate in the RFQ you have to choose the first option (i.e. "**I have understood the RFQ/NIT in full and agree to submit quotation for the same on behalf of my organization**") and click on "**ENTER**" button.
- You will be then taken to the **ADD QUOTATION** page where you have to click on "**ADD QUOTATION**" and fill in the relevant bid details.
- You will be taken to the techno-commercial page where you have to fill the relevant fields.
- To add any techno-commercial documents you have to click on "**ADD ATTACHMENT**" button than you have to click on the "ADD ROW" button.
- Then insert **LABEL** name, **FILE** Name and then attach the required file by clicking on the BROWSE option. Now click on the "**SIGN FILE**" button, now the system will ask for the encryption DSC and after successful verification you have to click on "**ATTACH/DETACH**" button for successful file attachment.
- Then click on "**GO TO HEADER**" button to go back to RFQ Header.
- The system will again ask for the Certificate and after successful verification you will be landed to the techno - commercial page.
- After successful verification of the certificate you have to click on "**SAVE AND GOTO ITEMS**" button to put the basic price for the items.
- Again the system will ask for DSC and you have to select you DSC.
- You have to put the basic price in the basic price column and then Click on the "**SAVE AND GOTO HEADER**" button
- Again the system will ask for DSC and you have to select you DSC.
- To submit the quotation click on "**SUBMIT QUOTATION**" button
- After successful verification of DSC, you can submit your quotation by clicking on the "**CONFIRM**" button.

After successful submission of your quotation the system will show that your quotation has been submitted successfully. You are requested to submit the bid well before the due date to avoid the last minute issues.

Please download the Supplier Manual from the below link

https://bheleps.buyjunction.in/BOEPS/html/Standard%20Documents/BHEL_Supplier%20Manual.pdf?OWASP_CSRFTOKEN=NXKI-NQ4W-2YMN-OJIA-0X2D-O3AW-CLN0-R2NX

e- Procurement – BHEL TRICHY

Dear Sir/Madam,

BHEL Trichy has implemented e-Procurement and it is going to be the way of working in future.

The Requirement :

1. A PC with Internet connectivity &
2. DSC (Digital Signature Certificate)(**Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION**)

The following are the benefits of e-Procurement Process.

1. Ensuring no offer is missed due to last minute submission, postal delays etc.
2. Reduced Tendering & ordering cycle time
3. Economical, smoother & speedy communication
4. Greater Transparency
5. Big step towards paperless procurement process, Minimal human error
6. No geographical barriers
7. Vendor gets alerts regarding issue of new tender enquiry, amendments, clarifications etc
8. Submission of offer from the comforts of their office from any location
9. On line clarifications
10. Direct Cost Savings such as reduced Paper costs, reduced printing costs, reduced mailing costs, reduced telephone costs and reduced fax costs.

BHEL has finalized the e-procurement service Provider

M/s m Junction services Limited, Kolkata

Godrej Water Side, 3rd Floor, Tower-1, Plot-V, Block - DP
Sector - V, Salt Lake, Kolkata-700091, West Bengal, INDIA

Please get in touch with them immediately. The contact details of the service provider is given below:

SL	NAME	e-Mail ID	Mobile No	ROLE
1	DHANARAJ.P	panneer.dhanaraj@mjunction.in	(+91) 9500199108	Customer Relationship Mgr.
2	HELP DESK	eps.customercare@mjunction.in	033 – 66106426 / 54 9163348104,9231027017	

The process of utilizing e-procurement necessitates usage of DSC (Digital Signature Certificate)(**Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION**) and you are requested to procure the same immediately, if not presently available with you. Please note that only with DSC, you will be able to login the e-procurement secured site and take part in the tendering process.

The contact details of the DSC Certifying Authority as given below

1	e-Mudhra	http://www.e-Mudhra.com	5	NIC	www.safescrypt.com
2	GNFC	www.ncodesolutions.com	6	Safescrypt	www.safescrypt.com
3	IDRBT	www.idrbtca.org.in	7	TCS	www.tcs-ca.tcs.co.in
4	MTNLTrustline	www.mtnltrustline.com			

Your early action in this regard is highly solicited.

Regards