



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

RFQ/NIT HEADER DETAIL

ORGANIZATION NAME	TRICHY, BHEL	RFQ FLOATED UNDER THE	PURCHASE POLICY
RFQ/NIT REFERENCE	2681700007	POLICY	
CODE/ENQUIRY NO		RFQ OWNER/NIT	MR Tapas Majee(AE1/PUR)
RFQ/NIT TYPE	OPEN TENDER	OFFICER/ENQUIRY OWNER	
NUMBER OF ITEMS ALREADY	2		
ATTACHED			
CURRENCY	INR - INDIAN RUPEE		
DESCRIPTION	Design, Supply, Installation & Commissioning of Fumes Extraction System with accessories		
DETAILED DESCRIPTION	-		
NUMBER OF BID PART(S)	2	PUBLISHED DATE	2 Jun , 2017 11:29:30 AM

ATTRIBUTE(S)

ATTRIBUTE NAME	ATTRIBUTE VALUE
Delivery at	as per tender documents
Inspection By	as per tender documents
Validity of the Offer	as per tender documents
Inspection	as per tender documents

DATE-TIME DETAIL(S)

BID START DATE	2 Jun , 2017 11:45:00 AM	BID DUE DATE	27 Jun , 2017 2:00:00 PM
BID OPEN DATE	27 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 Tapas Majee(AE1/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
---------	----------	-------------





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 respective L-1 vendor for each line item wise. 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. Pre-Qualifying Criteria: Part-A1 & A2 b. Technical Specification: Part-B1 & B2 c. Plan Lay Out: Annexure-I & II d. Commercial Terms & Conditions: Annexure-A1 & A2 e. Price Bid Format: Annexure-B1 & B2 f. CA certificate for MSE vendors: Annexure-C.
---	-----------------	---



		g. DSC Guidelines h. e-Procurement communication The bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ serviceproviders 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.
--	--	--

RFQ/NIT ITEM DETAILS

SL. NO.	CODE	DESCRIPTION	QUANTITY	RFQ/NIT U.O.M	OFFER U.O.M
10	52RC_NO	DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR 20 TORCH MPMS-2 NOS /BAY 1 AND 2 /BUILDING 107 AS PER THE FOLLOWING DATA AND SPECIFICATIONS. AS PER THE QUALIFYING CRITERIA - PART A1 - 20 TORCH AND SPECIFICATION - PART B1 - 20 TORCH AND ANNEXURE -I LAYOUT FUMES EXTRACTION SYSTEM FOR 20 TORCH MPM	02.00	NUMBER	NUMBER
	ATTRIBUTE DETAILS	ATTRIBUTE NAME 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) : 30-NOV-2017 Delivery Qty (i) : 2			
20	52RC_NO	DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR STBWS-6 NOS /BAY 1, 3, 5, 5A /BUILDING 107 AND BAY1/BUILDING 117 AS PER THE FOLLOWING DATA AND SPECIFICATIONS. AS PER THE QUALIFYING CRITERIA - PART A2 - STBW AND SPECIFICATION - PART B2 - STBW AND ANNEXURE -II LAYOUT FUMES EXTRACTION SYSTEM FOR STBW	06.00	NUMBER	NUMBER
	ATTRIBUTE DETAILS	ATTRIBUTE NAME 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) : 30-NOV-2017 Delivery Qty (i) : 6			





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
20 torch FES Part A1 Part B1	20 torch FES Part A1 Part B1.PDF
STBW FES Part A2 Part B2	STBW FES Part A2 Part B2.PDF
Annexure I 20 Torch	Annexure I 20 Torch.PDF
Annexure II STBW	Annexure II STBW.PDF
Annexure-A1 Foreing Bidder	Annexure-A1 Foreing Bidder.docx
Annexure-A2 Indian Bidder	Annexure-A2 Indian Bidder.docx
Annexure-B1 Model Price Bid- Foreign Bidder	Annexure-B1 Model Price Bid-Foreign Bidder.doc
Annexure-B2 Model Price Bid- Indian Bidder	Annexure-B2 Model Price Bid-Indian Bidder.docx



**DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR 20 TORCH
MPMS AT BAY 1,2 / BUILDING 107 - QUANTITY : 2 Nos**

PART – A1

SECTION- I: Qualifying Criteria

The BIDDER has to compulsorily meet the Qualifying Criteria indicated in **Section I** to get qualified. Otherwise the technical offer will not be considered.

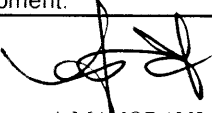
S NO.	REQUIREMENTS	VENDOR'S RESPONSE
1	Only those vendors (OEMs/Authorized Dealers), who have designed, supplied and commissioned same type of welding fume extraction systems having smoke/dust filter unit with accessories of make as specified in the Specification (PART B – 20 TORCH) of minimum capacity 12000 CMH in the past five years and such item should be working satisfactorily for a minimum period of one year after completion of commissioning as on the date of opening of this tender.	
2	The vendor should submit following details which are necessary for qualifying their offer.	
2.1	Name and contact details like email, phone number, fax no, etc. of the customer / company where the equipment commissioned.	
2.2	Along with Technical offer, the Vendor should submit performance certificate from minimum one customer for the satisfactory performance of the same, supplied to them in the customer's letter head. Suggestive Format Enclosed in SECTION – III	
3	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	

SECTION – II:

The BIDDER / VENDOR has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser:

S NO.	REQUIREMENTS	VENDOR'S COMPLIANCE
1	The BIDDER / VENDOR shall submit the offer in TWO PARTS-Technical [with PART A & PART B] & Commercial and Price Bid.	
2	The offer shall contain a comparative statement of Technical Specifications given by BHEL and the offered details submitted by the Bidder, against each clause. Merely stating 'CONFIRMED' or 'COMPLIES' or 'YES' or 'NO-DEVIATION' or similar words wherever 'Vendor to Specify' details in the technical comparative statement may lead to disqualification of the Technical Offer.	
3	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	
4	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation of the inclusion of all the accessories, tooling's, attachments, auxiliary parts, spares, consumables, etc. with the main and basic equipment, to meet the technical specification requirements.	
5	BIDDER has to indicate the Country of Origin for the supply of equipment.	


R. ALAGESAN
Senior Engineer/M&S/UNIT II


A. MANORANJAN
SM/M&S/UNIT II


V.R. SAMUEL
DGM/ M&S/UNIT II

28.4.12

SECTION – III

**PERFORMANCE CERTIFICATE
(On Customer's Letter Head)**

1. Supplier of the machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application for which machine is used :
5. Installed capacity (in CMH) :
6. Performance of the Machine : Satisfactory / Good / Average /
(Strike off whichever is not applicable) Not Satisfactory
7. After Sales Service : Satisfactory / Good / Average /
Not Satisfactory
8. Any other remarks :

Date:

Signature & Seal of the Authority
Issuing the Performance Certificate

PART B/- TECHNICAL SPECIFICATION

SPECIFICATION FOR FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR 20 TORCH MPM - 2 NOS / BAY 1 & 2 / BUILDING 107

Scope: - DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR 20 TORCH MPMS
2 NOS AT BAY1 & 2 / BUILDING 107

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
1	AREA OF APPLICATION	Fume/Smoke extraction system equipment's, suitable for handling 18000 CMH to 22000 CMH air flow rate @ 250mm WC pressure (average). The fan operating point should be 18,000 m3/hr - 22,000 m3/hr @250 mm WC static pressure (average) and the fan should comprise of following principal system components / equipment's and accessories.	<i>Bidder to Confirm</i>
2	SCOPE OF SUPPLY - MACHINE CONFIGURATION	1.Fumes Extraction Blower of suitable capacity with Motor - 1 set 2.Smoke/Dust filter unit with accessories - 1 set 3.Connecting air ducts - 1 set	<i>Bidder to Confirm</i>
2.1	DESIGN INPUTS	BIDDER should make a visit to BHEL/TRICHY Works for an 'ON THE SPOT' study of the requirements of BHEL prior to submitting the technical offer. The offer submitted without visit & assessment of the BHEL requirement shall not be considered for evaluation.	<i>Bidder to Confirm</i>
3	FUMES EXTRACTION BLOWER	Bidder to specify number of blowers based on application.	<i>Bidder to Confirm</i>
3.1	Purpose	To extract & filter welding fumes from the welding source and to discharge filtered air above the building roof.	<i>Bidder to Confirm</i>
3.2	Drive	Direct	<i>Bidder to specify</i>
3.3	Flow	18,000 m3/hr - 22,000 m3/hr @250 mm WC static pressure (average)	<i>Bidder to specify.</i>
3.4	Temperature of fluid (air)	40 to 50 Deg C approx.	<i>Bidder to Confirm</i>
3.5	Type	SISW backward curved centrifugal fan located in an acoustic enclosure, preferably integrated with the filter unit	<i>Bidder to be specify.</i>
3.6	Efficiency of blower	Around 70% - 75%	<i>Bidder to be specify.</i>
3.7	Size	To be specified by the supplier	

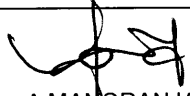

R.ALAGESAN
Senior Engineer/M&S/UNIT II


A.MANORANJAN
SM/M&S/UNIT II


V.R.SAMUEL 28-6-12
DGM/ M&S/UNIT II

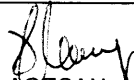
S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
3.8	Delivery: Direction & Outlet size	Upward discharge, suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	<i>Bidder to be specify.</i>
3.9	Blower accessories	Bidder to specify the below items with details suitable for ONE blower (or) To be inbuilt.	<i>Bidder to be specify.</i>
i.	Inlet adapter	Suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	<i>Bidder to Confirm</i>
ii.	Outlet adapter	Suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	<i>Bidder to Confirm</i>
iii.	Guard net	Suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	<i>Bidder to Confirm</i>
iv.	Flexible adapter	Suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	<i>Bidder to Confirm</i>
v.	Suitable Vibration absorber	1 SET	<i>Bidder to be specify</i>
3.10	Blower Makes:	Nederman/RoboVent/GEA/Denco Happel /Kemper/ULT AG only acceptable.	<i>Bidder to be specify</i>
4	BLOWER MOTOR		<i>Bidder to Confirm/Specify</i>
4.1	Motor Type	Three Phase Squirrel cage Induction motor with totally enclosed fan cooled.	
4.2	Degree of protection (Motor)	IP55	
4.3	Duty	S1 continuous	
4.4	Class of insulation	Class F	
4.5	Motor details	HP / kW, RPM shall be decided by the vendor. Motor to comply for IE3 standard	<i>Bidder to Specify</i>
4.6	Motor make	ABB/ AB / Mitsubishi / Siemens. Bidder to Confirm	
4.7	Motor Contactor	Make and Rating. Bidder to Specify	
4.8	Power supply	415V $\pm$ 10%, 50HZ $\pm$ 3 Hz, 3 Phase AC [3 wire system without neutral] power supply will be provided by BHEL at a single point near the machine. All cables, connections, circuit breakers etc. required for connecting BHEL's power supply to the machine shall be in the scope of vendor.	<i>Bidder to note</i>
4.9	Control voltage	Control voltage shall be of 24V DC.	<i>Bidder to Confirm</i>
4.10	GA drawing & BOM	GA drawings and bill of materials to be submitted for approval before manufacturing of the panels.	<i>Bidder to Confirm</i>
4.11	Technical catalogue	Technical catalogue furnishing the features of the controller and panel shall be enclosed with the offer	
4.12	Tropicalization	All electrical / electronic equipment shall be tropicalized.	<i>Bidder to Confirm</i>
4.13	Control panels	All electrical & electronic control cabinets & panels should be dust and vermin proof.	<i>Bidder to Confirm</i>

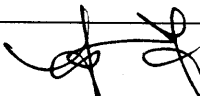

 R. ALAGESAN
 Senior Engineer/M&S/UNIT II


 A. MANORANJAN
 SM/M&S/UNIT II


 V.R. SAMUEL
 DGM/ M&S/UNIT II

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
4.14	Earthing	Vendor should ensure the proper earthing for the machine and its peripherals.	<i>Bidder to Confirm</i>
4.15	Recommended spares	Recommended set of spares for all Electrical and electronics are to be offered with details.	<i>Bidder to Confirm</i>
5	SMOKE / DUST FILTER UNIT WITH ACCESSORIES	The machine parts are to be heat-treated (wherever necessary) after fabrication (including castings and forgings) and painted with One coat of Primer and Two coats of synthetic Enamel Paint (Color – Apple Green – IS281/Blue RAL 5007) Control Panel to be painted with Two coats of IS 281 Synthetic Enamel Apple Green Color Paint	<i>Bidder to Confirm</i>
5.1	Application	Dust and Fumes	<i>Bidder to Confirm</i>
5.2	Type	Pleated cartridge filter with basic dimensions.	<i>Bidder to specify</i>
5.3	Size of the Filtration unit	The size of the filtering unit to be selected w.r.to BHEL reference layout. Bidder to confirm and specify the details accordingly.	<i>Bidder to specify</i>
5.4	Number of filtration units	The no. of the filtration units to be selected w.r.to BHEL reference layout. Bidder to confirm and specify the details accordingly.	<i>Bidder to specify</i>
5.5	Type of filter cartridges	Vertical mounted type filters (fire retardable type)	<i>Bidder to specify</i>
5.6	Number of filter cartridges	Bidder to specify	<i>Bidder to specify</i>
5.7	Total filtration surface area in m ²	Minimum 275 m ² considering ACR=1.2m ³ /min/m ²	<i>Bidder to specify.</i>
5.8	Airflow	To handle 18000 CMH to 22000 CMH at 250 mm of water column pressure (average).	<i>Bidder to specify.</i>
5.9	Filters	Each Filters shall be PTFE treated/laminated for handling fumes/fine particles, filtration efficiency 95-99% for particle size upto 1 µm.	<i>Bidder to Specify</i>
5.10	Dust collector bin	Dust container kit with easy disposal (Wheel/Hand trolley)	<i>Bidder to Specify</i>
5.11	Air inlet	To be confirmed w.r.to BHEL reference layout	<i>Bidder to Specify</i>
5.12	Air outlet	To be confirmed w.r.to BHEL reference layout	<i>Bidder to Specify</i>
5.13	Electrical accessories		
i.	Maintenance Switch	Maintenance Switch for blower starter	<i>Bidder to specify</i>
ii.	Blower Starter	VFD with input and output chokes	<i>Bidder to specify make and power rating</i>


R.ALAGESAN
Senior Engineer/M&S/UNIT II

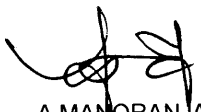

A.MANORANJAN
SM/M&S/UNIT II


V.R.SAMUEL
DGM/ M&S/UNIT II

28-4-20

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
iii.	Automatic On/Off system	Automatic On/Off system based on welding On/Off operation – Provision to be incorporated in the control panel.	<i>Bidder to specify</i>
iv.	VFD control	Fan Inverter (Auto mode VFD) for reducing and increasing air flow	<i>Bidder to specify</i>
v.	VFD Make	ABB/ Schneider/Siemens/Mitsubishi/Toshiba/Yaskawa/Danfoss/ Parker or equivalent makes acceptable to BHEL.	<i>Bidder to confirm & specify</i>
5.14	Weight of the unit		<i>Bidder to specify</i>
5.15	Compressed air pressure requirement for Purging/Self-cleaning mechanism of filters in Bar.	BHEL will provide in 1" line at one point near machine around 5 Bar.	<i>Bidder to note</i>
5.16	Compressed air consumption	Compressed air utilization/consumption for the unit in N Liter/Min.	<i>Bidder to specify</i>
5.17	Filter Unit pressure drop	Operating around 25-175 mm WC., Max 180 mm WC	<i>Bidder to specify suitably based on function.</i>
5.18	Filtration efficiency	95-99%.	<i>Bidder to specify</i>
5.19	Noise Level	Less than 75 db. at 1 metre.	<i>Bidder to Confirm</i>
5.20	Digital measuring device:	1 no each of Digital measuring device for fume outflow (preferred portable anemometer), blower capacity (preferred portable anemometer), static pressure (preferred manometer), and compressed air flow meter for purging, pressure gauges shall be used to measure/monitor its performance.(To be included in the scope of supply)	<i>Bidder to specify</i>
5.21	Filter Make	Nederman/RoboVent/GEA/Denco Happel/Kemper/ULT AG only acceptable.	<i>Bidder to Confirm</i>
6	CONNECTING AIR DUCTS		
6.1	Ducting arrangement	Ducting arrangement - inlet & outlet to filtration units should be made w.r.to BHEL reference layout	<i>Bidder to specify</i>
6.2	Extraction hoods & ducts	Extraction air hoods + connecting air ducts in galvanized sheet steel fabricated construction complete with its flanges, flange packing / gasket and the fasteners of minimum grade 10.9. Minimum GI 20G (1 mm) ducting works joined with ISA (40 x 40 x 3) mm angle frames with four or five feet interval (or) To suit site requirement	<i>Bidder to specify</i>
6.3	Makes of flexible hoses:	Nederman/Masterflex/Norres/Totaku/GEA/Denco Happel /Kemper/RoboVent/ULT AG only acceptable.	<i>Bidder to specify</i>


R. ALAGESAN
 Senior Engineer/M&S/UNIT II


A. MANORANJAN
 SM/M&S/UNIT II


V.R. SAMUEL
 DGM/ M&S/UNIT II

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
6.4	Fasteners & Angles	Standard MS angles, galvanized bolt/nuts of minimum grade 10.9/12.6 etc., are to be used.	<i>Bidder to specify</i>
6.5	Suction hood -wire mesh	All suction hoods shall have bolted construction wire mesh to prevent foreign materials entry and are to be made minimum 1mm thick SS – 304 materials.	<i>Bidder to specify</i>
7	Performance Prove-Out Details		
	To effectively remove the generated fumes from the source without affecting desired pre-function while running at rated blower capacity as specified elsewhere in the specification.	With the filter system in operation, the average concentration of the spm within 1 meter of the fume generation area shall either be less than 1.5 mg/m ³ or 80% reduced value of concentration of spm (in mg/m ³) w.r.to value before operating the fume extraction system	<i>Bidder to Confirm</i>
8	TECHNICAL OFFER		<i>Bidder to Confirm</i>
	The Technical Offer shall contain the following :		
8.1	Complete Scope of Supply, including Main Equipment, All Accessories and Attachments, etc.		<i>Bidder to Confirm</i>
8.2	List of Operating Spares, Commissioning Spares, Foundation / Anchoring Materials		<i>Bidder to Specify/Confirm</i>
8.3	Erection, Commissioning and Performance Prove-Out Details.		<i>Bidder to Confirm</i>
8.4	Complete description of all systems & sub-systems forming part of the exhaust system.		<i>Bidder to Confirm</i>
8.5	A schematic diagram showing the layout of the exhaust system. & associated systems with salient dimensions shall be submitted		<i>Bidder to Confirm</i>
8.6	The operating sequence of the exhaust system with broad outline of various operations involved.		<i>Bidder to Confirm</i>
8.7	The selection criteria of structural and machined components including material details for the rigidity of the system.		<i>Bidder to Confirm</i>
9	Set of Documents to be submitted after placement of order for approval / verification before manufacturing within 4 weeks from PO/LOI:		<i>Bidder to Confirm</i>
9.1	General Lay-out of the exhaust system with major and critical dimensions in line with the specification and Preliminary Foundation drawing.		
9.2	General Assembly drawing of the exhaust system with bill of materials and critical dimensions		
9.3	Sub-assembly / Arrangement drawings with bill of materials and critical dimensions for all the sub-assemblies.		
9.4	Electrical Circuit with Bill of Materials giving specification and make of components used.		
9.5	Sequence of operation.		
9.6	Spares parts list with part number/drawing.		
9.7	Schedule of Erection and Commissioning shall be submitted with the offer.		

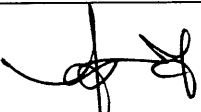

 R. ALAGESAN
 Senior Engineer/M&S/UNIT II


 A. MANORANJAN
 SM/M&S/UNIT II


 V.R. SAMUEL
 DGM/ M&S/UNIT II

S. No.	PARTICULARS	BHEL SPECIFIC CONDITIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
10	Foundation:		<i>Bidder to Confirm</i>
10.1	Vendor shall submit the preliminary layout drawing details including static / dynamic load for getting BHEL's approval after PO/LOI.		
11	General Note:		
11.1	Bought out items - Makes not specified elsewhere shall be used only after getting approval in the technical offer itself.		<i>Bidder to Confirm</i>
11.2	Impeller shall be balanced to ISO1940-1973 (e) class g 6.3 or its equivalent		<i>Bidder to Confirm</i>
11.3	Latest Energy efficient motor shall be provided as per IE3 standards.		<i>Bidder to Confirm</i>
11.4	Dynamic balancing certificate shall be produced along with supply.		<i>Bidder to Confirm</i>
11.5	Performance test curve shall be supplied after testing in Vendors work.		<i>Bidder to Confirm</i>
11.6	Damper with wire mesh shall be provided to all blowers in the suction side		<i>Bidder to Confirm</i>
11.7	Sound level shall be around 75 db at 1 meter distance as per standards.		
11.8	Blower Test certificate shall be supplied by the vendor while dispatch as per standards		<i>Bidder to Confirm</i>
11.9	One coat of red oxide primer and two coat of apple green paint (RAL 6011)/Blue RAL 5007 shall be painted to the assembly after		<i>Bidder to Confirm</i>
12	Manuals:		<i>Bidder to Confirm</i>
12.1	1 set of detailed manual with detailed assembly drawings(Soft copy - CD format) along with bought out items complete details for the blowers shall supplied by the vendor while dispatch (In English language)		
13	Leveling & Anchoring System:		<i>Bidder to Confirm</i>
13.1	Complete anchoring system including foundation bolts, anchoring materials, fixators, leveling shoes etc. should be supplied along with scope.		
14	Packing:		<i>Bidder to Confirm</i>
14.1	Sea worthy & rigid packing for all items and other supplied items to avoid any damage/loss in transit. When it is dispatched in containers, all small loose items shall be suitably packed in boxes.		
15	Guarantee:		<i>Bidder to Confirm</i>
15.10	Guarantee required for 12 Months from the day of commissioning of system for workman ship, mechanical and electrical stability at BHEL or 18 months from dispatch whichever is earlier.		
16	Standards for Design and Manufacture :		<i>Bidder to Confirm</i>
16.10	Standards for design and manufacture of the exhaust system shall be in accordance with ISO or JIS or DIN Or ACGIH .Any other standards shall be approved by BHEL before manufacturing. Anything unspecified but necessary for function shall be indicated by the supplier.		
17	BHEL WILL supply all consumables like power, water, oil, cotton waste, service air, welding rod, welding machine, welder, etc., at free of cost required for erection and commissioning of the system.		


 R.ALAGESAN
 Senior Engineer/M&S/UNIT II


 A.MANORANJAN
 SM/M&S/UNIT II


 V.R.SAMUEL
 DGM/ M&S/UNIT II

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
18	Utility at BHEL	Input Voltage: AC 415 V+/-10%, 50 Hz+/-3%, 3-Phase, 3 Wire system. Control Voltage: DC 24 V Shop Air Pressure: Around 5 Bar in 1" line.	<i>Bidder to Confirm</i>
19	Delivery:	Shall not exceed 12 - 16 Weeks from date of Purchase order/LOI.	<i>Bidder to Confirm</i>
20	IMPORTANT ASPECT OF THE CONTRACTOR:-		
20.1	The offerer has to take care of all technical specifications and the scope of the work as above mentioned and clearly offer their technical bid for evaluation and approval.		<i>Bidder to Confirm</i>
20.2	Supplier has to ensure that entire assembly shall be compact in design aspect without compromising the required function.		<i>Bidder to Confirm</i>
20.3	The specification provided is absolutely for educative nature for the offered. The offerer is hereby directed to get acquainted with the BHEL Trichy area conditions before submitting the offer.		<i>Bidder to Confirm</i>
20.4	Payment shall be made 100% after complete Erection & Commissioning.		<i>Bidder to Confirm</i>
20.5	Materials of constructions as follows Thickness of smoke/dust unit: Minimum 4 mm. Complete unit should be strong and stable welded completely in steel construction. Exhaust ducting's shall have Rain water cowl, Bird screen, leak proof gaskets, provision for measuring fumes gases tapping.		<i>Bidder to Confirm</i>
20.6	<u>List of Operating Spares – To be included in the scope of supply</u> 1. Filter cartridge – Required for 1 Unit – 1 Set 2. Flexible hoses with clamps - Required for 1 Unit – 10 meters 3. Solenoid valve for purging/self-cleaning – 1 Number in each type		<i>Bidder to Confirm</i>


R. ALAGESAN

Senior Engineer/M&S/UNIT II

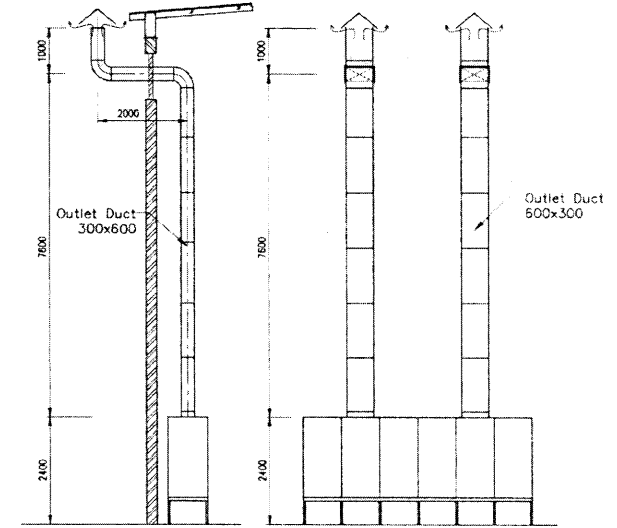
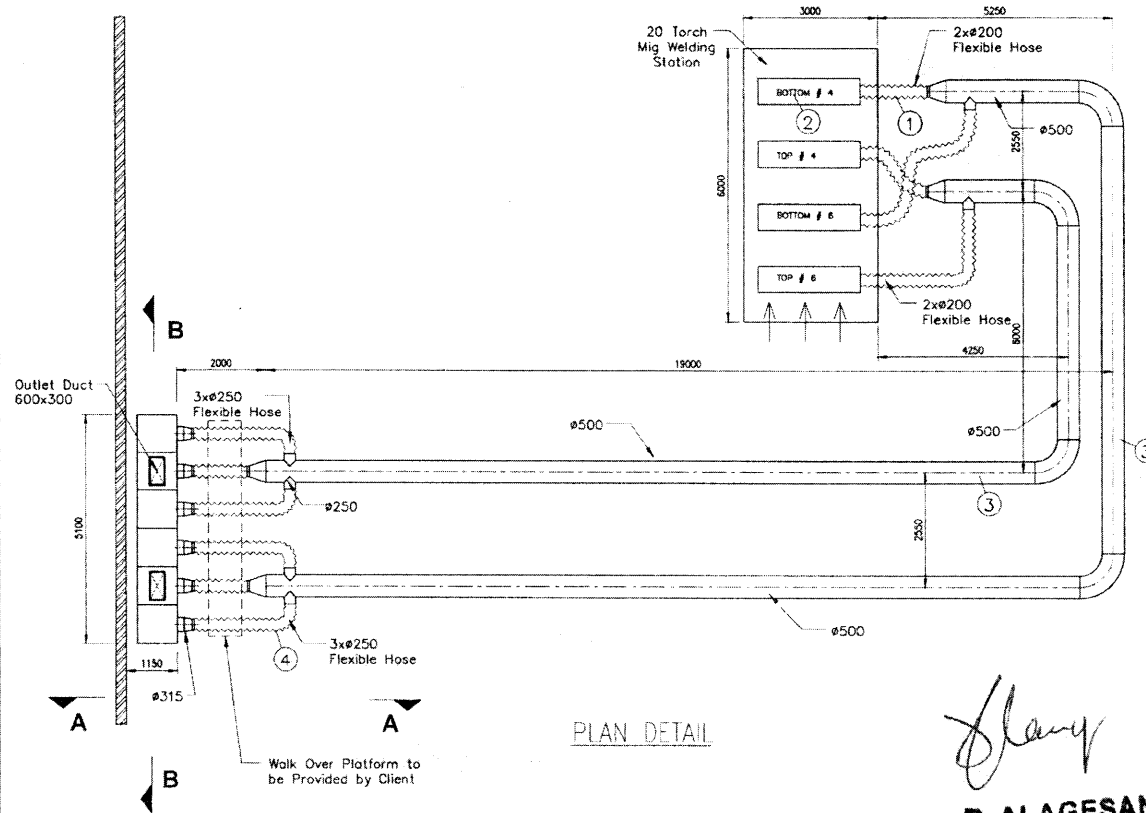

A. MANORANJAN

SM/M&S/UNIT II


V.R. SAMUEL

DGM/ M&S/UNIT II

ANNEXURE-I - 20 TORCH REFERENCE LAYOUT



R. Alagesan
R. ALAGESAN
 Sr. Engineer
 Maintenance & Services
 BHEL, TRICHY - 620 014.

05	Out. Fum Duct in 22wgs Rectangular (600x300)	2x12 mtr	24 mtr	
04	Flexible Hose Fire Retardant (3 mtr x 5 nos.)	250	15 mtr	
03	Suction Duct in 22 wgs (Spira Construction)	500	70 mtr	
02	Suction Hoods with SS Mesh size-1200x350	-	4 nos.	
01	Flexible Hose Fire Retardant (5 mtr x 8 nos.)	200	40 mtr	
S. NO.	DESCRIPTION	SIZE	QTY.	MAT'Ls/WAGE
TITLE GENERAL ARRANGEMENT OF FUME EXTRACTION SYSTEM FOR 20 TORCH MIG WELDING STATION				

DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR STBWS AT BAY 1,3,5,5A / BUILDING 107 & BAY 1/BUILDING 117 - QUANTITY : 6 Nos

PART – A 2

SECTION- I: Qualifying Criteria

The BIDDER has to compulsorily meet the Qualifying Criteria indicated in **Section I** to get qualified. Otherwise the technical offer will not be considered.

S NO.	REQUIREMENTS	VENDOR'S RESPONSE
1	Only those vendors (OEMs/Authorized Dealers), who have designed, supplied and commissioned same type of welding fume extraction systems having smoke/dust filter unit with accessories of make as specified in the Specification (PART B – STBW) of minimum capacity 2000 CMH in the past five years and such item should be working satisfactorily for a minimum period of one year after completion of commissioning as on the date of opening of this tender.	
2	The vendor should submit following details which are necessary for qualifying their offer.	
2.1	Name and contact details like email, phone number, fax no, etc. of the customer / company where the equipment commissioned.	
2.2	Along with Technical offer, the Vendor should submit performance certificate from minimum one customer for the satisfactory performance of the same, supplied to them in the customer's letter head. Suggestive Format Enclosed in SECTION – III	
3	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected.	

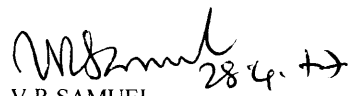
SECTION – II:

The BIDDER / VENDOR has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser:

S NO.	REQUIREMENTS	VENDOR'S COMPLIANCE
1	The BIDDER / VENDOR shall submit the offer in TWO PARTS-Technical [with PART A & PART B] & Commercial and Price Bid.	
2	The offer shall contain a comparative statement of Technical Specifications given by BHEL and the offered details submitted by the Bidder, against each clause. Merely stating 'CONFIRMED' or 'COMPLIES' or 'YES' or 'NO-DEVIATION' or similar words wherever 'Vendor to Specify' details in the technical comparative statement may lead to disqualification of the Technical Offer.	
3	The Technical Offer shall be supported by product Catalogues & Data Sheets and also technical details of Bought-Out-Items with copies of Product Catalogue to the extent possible.	
4	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation of the inclusion of all the accessories, tooling's, attachments, auxiliary parts, spares, consumables, etc. with the main and basic equipment, to meet the technical specification requirements.	
5	BIDDER has to indicate the Country of Origin for the supply of equipment.	


R.ALAGESAN
Senior Engineer/M&S/UNIT II


A.MANORANJAN
SM/M&S/UNIT II


V.R.SAMUEL
DGM/ M&S/UNIT II

SECTION – III

**PERFORMANCE CERTIFICATE
(On Customer's Letter Head)**

1. Supplier of the machine :
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application for which machine is used :
5. Installed capacity (in CMH) :
6. Performance of the Machine : Satisfactory / Good / Average /
(Strike off whichever is not applicable) Not Satisfactory
7. After Sales Service : Satisfactory / Good / Average /
Not Satisfactory
8. Any other remarks :

Date:

Signature & Seal of the Authority
Issuing the Performance Certificate

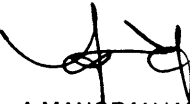
PART B2- TECHNICAL SPECIFICATION

**SPECIFICATION FOR FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR STBWS -6 NOS AT
BAY 1.3.5.5A / BUILDING 107 & BAY 1/BUILDING 117**

Scope: - DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF FUMES EXTRACTION SYSTEM WITH ACCESSORIES FOR STBWS -6 NOS
AT BAY A / BUILDING 107 & BAY 1/BUILDING 117

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
1	AREA OF APPLICATION	Fume/Smoke extraction system equipment's, suitable for handling 2500 CMH to 3500 CMH air flow rate @ 250mm WC pressure(average).The fan operating point should be 2,500 m3/hr to 3,500 m3/hr @250mm WC static pressure (average) and the fan should comprise of following principal system components / equipment's and accessories.	<i>Bidder to Confirm</i>
2	SCOPE OF SUPPLY - MACHINE CONFIGURATION	1.Fumes Extraction Blower of suitable capacity with Motor - 1 set 2.Smoke/Dust filter unit with accessories - 1 set 3.Connecting air ducts - 1 set	<i>Bidder to Confirm</i>
2.1	DESIGN INPUTS	BIDDER should make a visit to BHEL/TRICHY Works for an 'ON THE SPOT' study of the requirements of BHEL prior to submitting the technical offer. The offer submitted without visit & assessment of the BHEL requirement shall not be considered for evaluation.	<i>Bidder to Confirm</i>
3	FUMES EXTRACTION BLOWER	Bidder to specify number of blowers based on application.	<i>Bidder to Confirm</i>
3.1	Purpose	To extract & filter welding fumes from the welding source and to discharge filtered air above the building roof.	<i>Bidder to Confirm</i>
3.2	Drive	Direct	<i>Bidder to specify</i>
3.3	Flow	To handle 2500 CMH to 3500 CMH air flow rate @ 250mm WC pressure(average)	<i>Bidder to specify.</i>
3.4	Temperature of fluid (air)	40 to 50 Deg C approx.	<i>Bidder to Confirm</i>
3.5	Type	SISW backward curved centrifugal fan located in an acoustic enclosure, preferably integrated with the filter unit	<i>Bidder to be specify.</i>
3.6	Efficiency of blower	Around 70% - 75%	<i>Bidder to be specify.</i>
3.7	Size	To be specified by the supplier	


R.ALAGESAN
Senior Engineer/M&S/UNIT II

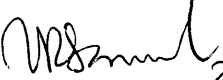

A.MANORANJAN
SM/M&S/UNIT II


V.R.SAMUEL
DGM/ M&S/UNIT II

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
3.8	Delivery: Upward side & its flange size	Upward discharge, suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	<i>Bidder to be specify.</i>
3.9	Blower accessories	Bidder to specify the below items with details suitable for ONE blower (or) To be inbuilt.	<i>Bidder to be specify.</i>
i.	Inlet adapter	Suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	
ii.	Outlet adapter	Suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	
iii.	Guard net suitable for duct	Suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	
iv.	Flexible adapter	Suitable for duct velocity of 14-20 m/s, pl refer to the BHEL layout	
v.	Suitable Vibration absorber	1 SET	
3.10	Blower Makes:	Nederman/RoboVent/GEA/Denco Happel /Kemper/ULT AG only	<i>Bidder to be specify</i>
4	BLOWER MOTOR		<i>Bidder to Confirm/Specify</i>
4.1	Motor Type	Three Phase Squirrel cage Induction motor with totally enclosed fan cooled.	
4.2	Degree of protection (Motor)	IP55	
4.3	Duty	S1 continuous	
4.4	Class of insulation	Class F	
4.5	Motor details	HP/KW, RPM shall be decided by the vendor. Motor to comply IE3 standard	<i>Bidder to Specify</i>
4.6	Motor make	ABB/ AB / Mitsubishi / Siemens. Bidder to Confirm	
4.7	Motor Contactor	Make and Rating. Bidder to Specify	
4.8	Power supply	415V $\pm$ 10%, 50HZ $\pm$ 3 Hz, 3 Phase AC [3 wire system without neutral] power supply will be provided by BHEL at a single point near the machine. All cables, connections, circuit breakers etc. required for connecting BHEL's power supply to the machine shall be in the scope of vendor.	<i>Bidder to note</i>
4.9	Control voltage	Control voltage shall be of 24V DC.	<i>Bidder to Confirm</i>
4.10	GA drawing & BOM	GA drawings and bill of materials to be submitted for approval before manufacturing of the panels.	<i>Bidder to Confirm</i>
4.11	Technical catalogue	Technical catalogue furnishing the features of the controller and panel shall be enclosed with the offer	
4.12	Tropicalization	All electrical / electronic equipment shall be tropicalized.	<i>Bidder to Confirm</i>
4.13	Control panels	All electrical & electronic control cabinets & panels should be dust and vermin proof.	<i>Bidder to Confirm</i>


 R. ALAGESAN
 Senior Engineer/M&S/UNIT II

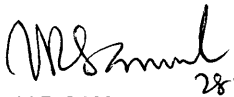

 A. MANORANJAN
 SM/M&S/UNIT II


 V.R. SAMUEL
 DGM/ M&S/UNIT II

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
4.14	Earthing	Vendor should ensure the proper earthing for the machine and its peripherals.	<i>Bidder to Confirm</i>
4.15	Recommended spares	Recommended set of spares for all Electrical and electronics are to be offered with details.	<i>Bidder to Confirm</i>
5	SMOKE / DUST FILTER UNIT WITH ACCESSORIES	The machine parts are to be heat-treated (wherever necessary) after fabrication (including castings and forgings) and painted with One coat of Primer and Two coats of synthetic Enamel Paint (Color – Apple Green – IS281) Control Panel to be painted with Two coats of IS 281 Synthetic Enamel Apple Green Color Paint	<i>Bidder to Confirm</i>
5.1	Application	Dust and Fumes	<i>Bidder to Confirm</i>
5.2	Type	Pleated cartridge filter with basic dimensions.	<i>Bidder to specify</i>
5.3	Type of filter cartridges	Vertical mounted type filters (fire retardable type preferable)	<i>Bidder to specify</i>
5.4	Number of filter cartridges	Bidder to specify	<i>Bidder to specify</i>
5.5	Total filtration surface area in m ²	Minimum 44 m ² considering ACR=1.2m ³ /min/m ²	<i>Bidder to confirm & specify.</i>
5.6	Airflow	To handle 2500 CMH to 3500 CMH at 250 mm of water column pressure (average).	<i>Bidder to specify.</i>
5.7	Filters	Each Filters shall be PTFE treated/laminated for handling fumes/fine particles, filtration efficiency 95-99% for particle size upto 1 µm	<i>Bidder to Specify</i>
5.8	Dust collector bin	Dust container kit with easy disposal (Wheel/Hand trolley)	<i>Bidder to Specify</i>
5.9	Air inlet	To be confirmed w.r.to BHEL reference layout	<i>Bidder to Specify</i>
5.10	Air outlet	To be confirmed w.r.to BHEL reference layout	<i>Bidder to Specify</i>
5.11	Electrical accessories		
i.	Maintenance Switch	Maintenance Switch for blower starter	<i>Bidder to specify</i>
ii.	Blower Starter	VFD with input and output choke	<i>Bidder to specify the make and power rating</i>


 R. ALAGESAN
 Senior Engineer/M&S/UNIT II

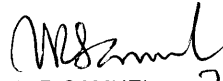

 A. MANORANJAN
 SM/M&S/UNIT II


 V.R. SAMUEL
 DGM/ M&S/UNIT II

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
iii.	Automatic On/Off system	Automatic On/Off system based on welding On/Off operation – Provision to be incorporated in the control panel.	<i>Bidder to specify</i>
iv.	VFD control	Fan Inverter (Auto mode VFD) for reducing and increasing air flow	<i>Bidder to specify</i>
v.	VFD Make	ABB/ Schneider/Siemens/Mitsubishi/Toshiba/Yaskawa/Danfoss/ Parker or equivalent makes acceptable to BHEL.	<i>Bidder to confirm & specify</i>
5.12	Weight of the unit		<i>Bidder to specify</i>
5.13	Compressed air pressure requirement for Purging/Self-cleaning mechanism of filters in Bar.	BHEL will provide in 1" line at one point near machine around 5 Bar.	<i>Bidder to note</i>
5.14	Compressed air consumption	Compressed air utilization/consumption for the unit in N Liter/Min.	<i>Bidder to specify</i>
5.15	Filter box pressure drop	Operating around 25-175 mm WC., Max 180 mm WC	<i>Bidder to specify suitably based on function.</i>
5.16	Filtration efficiency	95-99%.	<i>Bidder to specify</i>
5.17	Noise Level	Less than 75 db. at 1 metre.	<i>Bidder to Confirm</i>
5.18	Digital measuring device:	1 no each of Digital measuring device for fume outflow (preferred portable anemometer), blower capacity (preferred portable anemometer), static pressure (preferred manometer), and compressed air flow meter for purging, pressure gauges shall be used to measure/monitor its performance.(To be included in the scope of supply)	<i>Bidder to specify</i>
5.19	Filter Make	Nederman/RoboVent/GEA/Denco Happel/Kemper/ULT AG only acceptable.	<i>Bidder to Confirm</i>
6	CONNECTING AIR DUCTS		
6.1	Ducting arrangement	Ducting arrangement - inlet & outlet to filtration units should be made w.r.to BHEL reference layout	<i>Bidder to specify</i>
6.2	Extraction hoods & ducts	Extraction air hoods + connecting air ducts in galvanized sheet steel fabricated construction complete with its flanges, flange packing / gasket and the fasteners of minimum grade 10.9. Minimum GI 20G (1 mm) ducting works joined with ISA (40 x 40 x 3) mm angle frames with four or five feet interval (or) To suit site requirement	<i>Bidder to specify</i>
6.3	Makes of flexible hoses:	Nederman/Masterflex/Norres/Totaku/GEA/Denco Happel /Kemper/RoboVent/ULT AG only acceptable.	<i>Bidder to specify</i>


R.ALAGESAN
Senior Engineer/M&S/UNIT II


A.MANORANJAN
SM/M&S/UNIT II

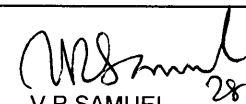

V.R.SAMUEL
DGM/ M&S/UNIT II

28.4.12

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
6.4	Fasteners & Angles	Standard MS angles, galvanized bolt/nuts of minimum grade 10.9/12.6 etc., are to be used.	<i>Bidder to specify</i>
6.5	Suction hood -wire mesh	All suction hoods shall have bolted construction wire mesh to prevent foreign materials entry and are to be made minimum 1mm thick SS – 304 materials.	<i>Bidder to specify</i>
7	Performance Prove-Out Details		
	To effectively remove the generated fumes from the source without affecting desired pre-function while running at rated blower capacity as specified elsewhere in the specification.	With the filter system in operation, the average concentration of the spm within 1 meter of the fume generation area shall either be less than 1.5 mg/m3 or 80% reduced value of concentration of spm (in mg/m3) w.r.to value before operating the fume extraction system	<i>Bidder to Confirm</i>
8	TECHNICAL OFFER		<i>Bidder to Confirm</i>
8.1	The Technical Offer shall contain the following :		
8.2	Complete Scope of Supply, including Main Equipment, All Accessories and Attachments, etc.		<i>Bidder to Confirm</i>
8.3	List of Operating Spares, Commissioning Spares, Foundation / Anchoring Materials		<i>Bidder to Specify/Confirm</i>
8.4	Erection, Commissioning and Performance Prove-Out Details.		<i>Bidder to Confirm</i>
8.5	Complete description of all systems & sub-systems forming part of the exhaust system.		<i>Bidder to Confirm</i>
8.6	A schematic diagram showing the layout of the exhaust system. & associated systems with salient dimensions shall be submitted		<i>Bidder to Confirm</i>
8.7	The operating sequence of the exhaust system with broad outline of various operations involved.		<i>Bidder to Confirm</i>
8.8	The selection criteria of structural and machined components including material details for the rigidity of the system.		<i>Bidder to Confirm</i>
9	Set of Documents to be submitted after placement of order for approval / verification before manufacturing within 4 weeks from PO/LOI:		<i>Bidder to Confirm</i>
9.1	General Lay-out of the exhaust system with major and critical dimensions in line with the specification and Preliminary Foundation drawing.		
9.2	General Assembly drawing of the exhaust system with bill of materials and critical dimensions		
9.3	Sub-assembly / Arrangement drawings with bill of materials and critical dimensions for all the sub-assemblies.		
9.4	Electrical Circuit with Bill of Materials giving specification and make of components used.		
9.5	Sequence of operation.		
9.6	Spares parts list with part number/drawing.		
9.7	Schedule of Erection and Commissioning shall be submitted with the offer.		


R. ALAGESAN
Senior Engineer/M&S/UNIT II


A. MANORANJAN
SM/M&S/UNIT II


V.R. SAMUEL
DGM/ M&S/UNIT II

S. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
10	Foundation:		<i>Bidder to Confirm</i>
10.1	Vendor shall submit the preliminary layout drawing details including static / dynamic load for getting BHEL's approval after PO/LOI.		
11	General Note:		
11.1	Bought out items - Makes not specified elsewhere shall be used only after getting approval in the technical offer itself.		<i>Bidder to Confirm</i>
11.2	Impeller shall be balanced to ISO1940-1973 (e) class g 6.3 or its equivalent		<i>Bidder to Confirm</i>
11.3	Latest Energy efficient motor shall be provided as per IE3 standards.		<i>Bidder to Confirm</i>
11.4	Dynamic balancing certificate shall be produced along with supply.		<i>Bidder to Confirm</i>
11.5	Performance test curve shall be supplied after testing in Vendors work.		<i>Bidder to Confirm</i>
11.6	Damper with wire mesh shall be provided to all blowers in the suction side		<i>Bidder to Confirm</i>
11.7	Sound level shall be around 75 db. at 1 meter distance as per standards.		
11.8	Blower Test certificate shall be supplied by the vendor while dispatch as per standards		<i>Bidder to Confirm</i>
11.9	One coat of red oxide primer and two coat of apple green paint (RAL 6011)/Blue RAL 5007 shall be painted to the assembly after final		<i>Bidder to Confirm</i>
12	Manuals:		<i>Bidder to Confirm</i>
12.1	1 set of detailed manual with detailed assembly drawings(Soft copy - CD format) along with bought out items complete details for the blowers shall supplied by the vendor while dispatch (In English language)		
13	Leveling & Anchoring System:		<i>Bidder to Confirm</i>
13.1	Complete anchoring system including foundation bolts, anchoring materials, fixators, leveling shoes etc. should be supplied along with scope.		
14	Packing:		<i>Bidder to Confirm</i>
14.1	Sea worthy & rigid packing for all items and other supplied items to avoid any damage/loss in transit. When it is dispatched in containers, all small loose items shall be suitably packed in boxes.		
15	Guarantee:		<i>Bidder to Confirm</i>
15.1	Guarantee required for 12 Months from the day of commissioning of system for workman ship, mechanical and electrical stability at BHEL or 18 months from dispatch whichever is earlier.		
16	Standards for Design and Manufacture :		<i>Bidder to Confirm</i>
16.1	Standards for design and manufacture of the exhaust system shall be in accordance with ISO or JIS or DIN Or ACGIH .Any other standards shall be approved by BHEL before manufacturing. Anything unspecified but necessary for function shall be indicated by the supplier.		
17	BHEL WILL supply all consumables like power, water, oil, cotton waste, service air, welding rod, welding machine, welder, etc., at free of cost required for the erection and commissioning of the system		


R. ALAGESAN
Senior Engineer/M&S/UNIT II

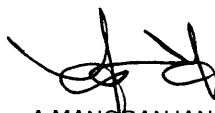

A. MANOJANJAN
SM/M&S/UNIT II


V.R. SAMUEL
DGM/ M&S/UNIT II

28.4.18

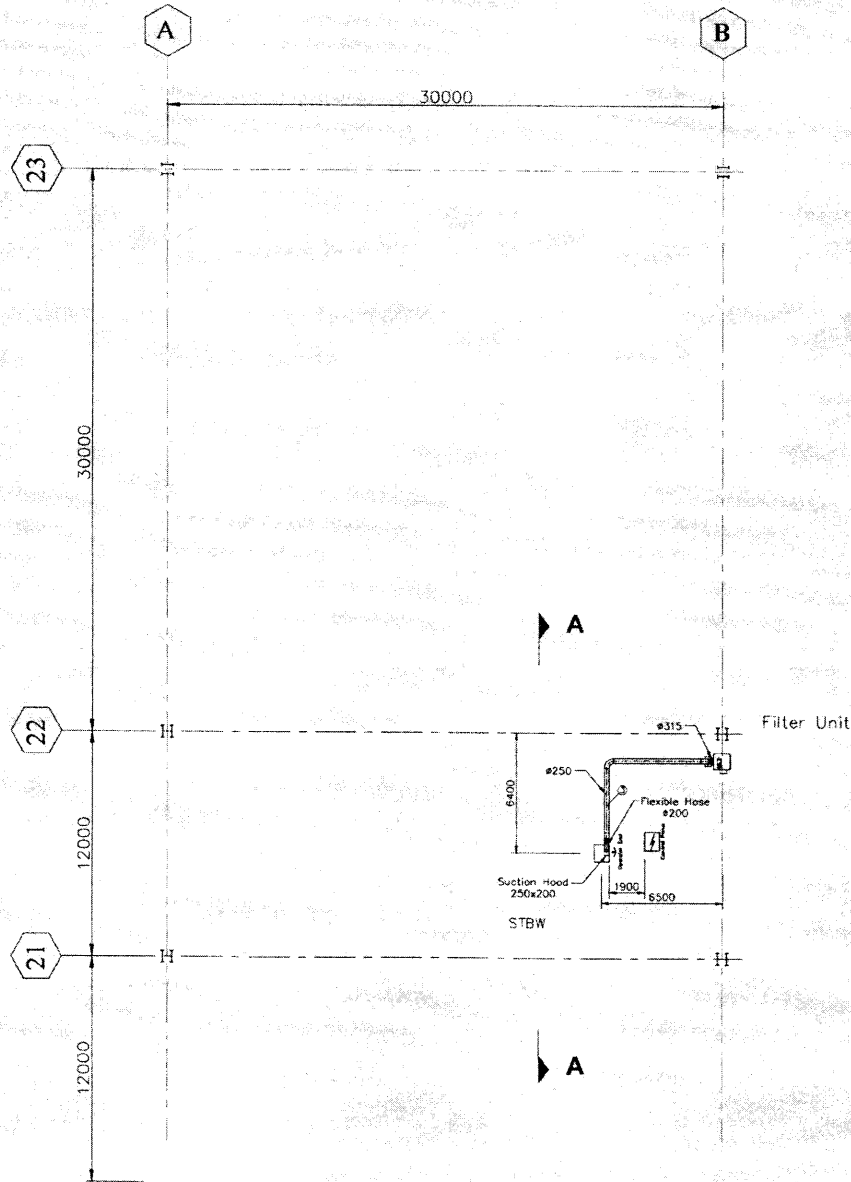
G. No.	PARTICULARS	BHEL SPECIFICATIONS	VENDOR'S OFFER / CONFIRMATION [with Complete Technical Details]
18	Utility at BHEL Input Voltage: AC 415 V+/-10%, 50 Hz+/-3%, 3-Phase, 3 Wire system. Control Voltage: DC 24 V Shop Air Pressure: Around 5 Bar in 1" line.		<i>Bidder to Confirm</i>
19	Delivery: Shall not exceed 12 - 16 Weeks from date of Purchase order/LOI.		<i>Bidder to Confirm</i>
20	IMPORTANT ASPECT OF THE CONTRACTOR:-		
20.1	The offerer has to take care of all technical specifications and the scope of the work as above mentioned and clearly offer their technical bid for evaluation and approval.		<i>Bidder to Confirm</i>
20.2	Supplier has to ensure that entire assembly shall be compact in design aspect without compromising the required function.		<i>Bidder to Confirm</i>
20.3	The specification provided is absolutely for educative nature for the offered. The offerer is hereby directed to get acquainted with the BHEL Trichy area conditions before submitting the offer.		<i>Bidder to Confirm</i>
20.4	Payment shall be made 100% after complete Erection & Commissioning.		<i>Bidder to Confirm</i>
20.5	Materials of constructions as follows Thickness of smoke/dust unit: Minimum 4 mm. Complete unit should be strong and stable welded completely in steel construction. Exhaust ducting's shall have Rain water cowl, Bird screen, leak proof gaskets, provision for measuring fumes gases tapping.		<i>Bidder to Confirm</i>
20.6	<u>List of Operating Spares – To be included in the scope of supply</u> 1. Filter cartridge – Required for 1 Unit – 1 Set 2. Flexible hoses with clamps - Required for 1 Unit – 10 meters 3. Solenoid valve for purging/self-cleaning – 1 Number in each type		<i>Bidder to Confirm</i>


 R.ALAGESAN
 Senior Engineer/M&S/UNIT II

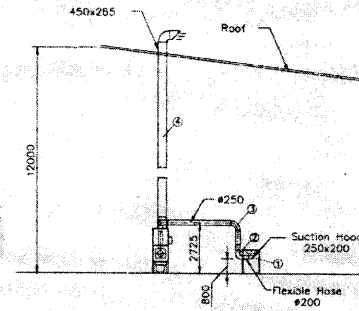

 A.MANORANJAN
 SM/M&S/UNIT II


 28.4.12
 V.R.SAMUEL
 DGM/ M&S/UNIT II

ANNEXURE - II - STBW REFERENCE LAYOUT



PLAN LAYOUT



SECTION-AA


R. ALAGESAN
Sr Engineer
Maintenance & Services
BHEL, TRICHY - 620 014

04	Outlet Exhaust Duct in 22 swg	450x265	10 mtr	
03	Spiral Duct - 22 swg	ø 250	20 mtr	
02	Flexible Hose Fire Retardant(3 mtr Each)	ø 200	no.	
01	Suction Hood With SS Mesh	250x200	1 no.	
S NO.	DESCRIPTION	SIZE	QTY.	MAT'L'S/MAKE

TITLE GENERAL ARRANGEMENT OF FUME
EXTRACTION SYSTEM FOR STBW

BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI
CAPITAL PURCHASE

Annexure-A1

ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE FOREIGN 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 FOREIGN VENDORS

SI No	DESCRIPTION
1.	❖ The Bidders shall submit their offer through E-Procurement website only <u>www.bheleps.buyjunction.in</u>. ❖ <u>Part I - Technical and Commercial Bid</u>: This should contain all the copies of technical bid together with un-priced commercial bid. ❖ <u>Part II - Price Bid</u>: 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.	<u>OPENING OF TENDERS</u> The Part I- Technical & commercial bid 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 tender opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - price bid.
3.	<u>Taxes and Duties</u> All Taxes, Duties etc. as required to be paid in the country of export shall be included in the price quoted by the foreign vendor. All duties (like customs duty etc.) payable in India will be paid by BHEL (however, the same would be loaded to the offer during our evaluation process). For the supplies made from India taxes & duties payable shall be clearly mentioned in the offer, failing which such taxes and duties shall have to be borne by the vendor. Income Tax applicable: Any service charges payable towards supervision of E&C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. The TDS certificate will be issued after 3 months from the date of E&C payment.
4.	<u>Currency of payment</u>: Indian bidders should submit the prices only in Indian Rupees. Foreign vendors should indicate the currency like Euro (€) / US\$ / GBP / JY etc. which should be clearly indicated in the un-priced commercial bid as well as in the price bid. In case the foreign vendor sources some components from India for direct supply to BHEL, the payment for those components shall only be in Indian Rupees.

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 180 days from the date of tender opening.	
6.	Release of Purchase Order: ➤ Purchase Orders will be released on respective L-1 vendor for each line item wise. ➤ Separate orders for supply & service will be released on the successful L-1 vendor item wise. (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: Supply Portion: BHEL Payment term is 80% payment on CAD basis after 45 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account. Balance 20% will be paid thru TT within 45-90 days after Minutes of Meeting for E&C shall be issued on satisfactory completion of erection, commissioning, job proving, performance tests, training to operators etc. as envisaged in PO against submission of PBG for 10% of total order value for 18 months period. Erection & Commissioning Portion (If applicable only): 100% of the Erection / commissioning charges (in case contract involves erection/commissioning) shall be paid only on completion of such erection / commissioning at BHEL thru TT payment. 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. • In the case of Usance LCs the loading will be considered @ 1.5% on the offered Value. • For LC at sight the loading will be considered @ 3.5% on the offered Value. • Normally CAD at sight and Confirmed LCs are liable for rejection.	
8.	Payment Terms for Indian agent: Indian Agency Commission, if any, shall be clearly specified in the offer and the same will be paid in Indian Rupees against acceptance of the materials.	
9.	Liquidated Damages (LD): The delivery of the goods specified in the purchase order should be made within the prescribed time. 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'. The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value in supply subject to a maximum of 10% of total PO value The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C). For staggered delivery schedule, 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. 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 delivery (B/L date) shall be considered.)	
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: Bidders are required to quote their best delivery period. Foreign vendors should quote for delivery on CFR/ CIF (Chennai Sea Port / Airport (as the case may be) with detailed price breakup for ocean freight/air freight etc. Also kindly note the followings in case of containerised shipment: 1. Place of delivery INTVT6 – CONCOR ICD should be clearly specified in the Bill of Lading. 2. 14 free days for Container Detention is applicable & same to be endorsed in Bill of Lading. The bidder has to quote charges for 'Supply' and 'Erection & Commissioning' separately. The evaluation of tender shall be on the basis of "NET CASH OUTFLOW VALUE (total cost to BHEL). For evaluation, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part - I in case of Two Part Bid) shall be considered. Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL)	
12.	If offers are received from both OEM/ Manufacturer and authorized Dealer/ Agent, then offer submitted by OEM/Manufacturer will only be considered, offer of Dealer/ Agent will be ignored.	
13.	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. Normally No deviation permitted and the deviated offers are liable for rejection.	
14.	Short shipment / Warranty replacement: In case, any shortage is noticed vis-a-vis PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on DDP - Incoterms 2012 basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier. Warranty Replacements during Guarantee period at supplier's cost on DDP - Incoterms 2012 basis.	

15.	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 proforma 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 period of 18 months from the date of despatch or 12 months from the date of receipt / acceptance / commissioning of the equipment at BHEL, Trichy 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 1. DEUTSCHE BANK 2.HDFC BANK 3.ANZ GRINDLAYS BANK 4.CITI BANK 5.STANDARD CHARTERED BANK 6.BANK OF AMERICA 7.ABN AMRO BANK 8.IDBI LTD 9.ICICI BANK LTD 10.THE HONGKONG AND SHANGHAI BANKING .CORPORATION LTD. LIST OF NATIONALISED BANKS 1.ALLAHABAD BANK 2.ANDHRA BANK 3.BANK OF INDIA 4.BANK OF BARODA 5.BANK OF MAHARASTRA 6.BHARATH OVERSEAS BANK 7.CANARA BANK 8.CENTRAL BANK OF INDIA 9.CORPORATION BANK 10.DENA BANK 11.INDIAN BANK 12.INDIAN OVERSEAS BANK 13.OREINTAL BANK OF COMMERCE 14.PUNJAB NATIONAL BANK 15.PUNJAB & SIND BANK 16.STATE BANK OF INDIA 17.STATE BANK OF TRAVANCORE 18.STATE BANK OF MYSORE 19.STATE BANK OF BIKANER & JAIPUR 20.STATE BANK OF HYDERABAD 21.STATE BANK OF PATIALA 22.STATE BANK OF MAHARASTRA 23.STATE BANK OF SOURASTRA(SBI-13.09.08) 24.SYNDICATE BANK 25.UCO BANK 26.UNION BANK OF INDIA 27.UNITED BANK OF INDIA 28.VIJAYA BANK <u>If PBG is issued by a Foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG, it will be lodged in any one of the Indian counters of the Foreign Bank which issued the PBG.</u> <u>All bank charges incurred in India and outside India on account of issuance of CEBG and PBG will have to be borne by the foreign vendor.</u> Normally No deviation permitted and the deviated offers are liable for rejection.	
16.	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, Trichy.	
17.	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	
18.	BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.	
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 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 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.	
20.	➤ Prices shall be quoted item wise only as per the model format enclosed. An unpriced copy shall be submitted along with technical bid where in the applicable Taxes and Duties Shall be clearly specified ➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipments will not be accepted. Incomplete offers will not be considered for further processing. ➤ Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non - responsive and rejected. Prices shall be written in words and figures. In the event of difference, the	

	price in words shall be valid and binding. Unit prices shall be considered correct in the event of any discrepancy with regard to total price. ➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.	
	➤ 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. ➤ All Equipments / Services including concern Personal for carrying out the erection and commissioning of the Equipment shall be arranged by the vendor. If any Services is availed from BHEL, it is only on chargeable basis unless otherwise specified. ➤ 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	
21. Company Details & Contact		
	Full Address of the company:	
	Company Email ID:	
	Phone No.:	
	Name of the contact person:	
	Mobile No.:	
	e-mail ID	
22. TO BE CONFIRMED BY VENDOR		
	Country of origin:	
	Station of dispatch/Port Of Shipment	
	Delivery Terms (FOR Destination or CIF/ CFR Chennai as per clause 11)	
23.	Price break-up details like FOB price, ocean freight/air freight etc., should be indicated in the offer.	
24.	Delivery from the date of Letter of Intent / Purchase Order. (This should be inclusive of Order acceptance, drawing approval and time period required for dispatch (B/L or AWB date) etc., Period for completion of the Erection & Commissioning work at BHEL shall be clearly specified in the offer (if available in enquiry scope only).	
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 < akumar@bheltry.co.in >		

NOTE:-

- a) Your specific acceptance to our Payment terms, LD, Risk Purchase Clause, RA and 10% PBG 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)

MODEL PRICE BID FORMAT FOR FOREIGN BIDDERS

Enquiry No. & Date:

Bidder's Offer No. & Date:

Sl No.	Description of item	Unit	Quantity	Rate in Currency	Value in Currency
10	The price indicated shall be inclusive of all accessories, spares etc. as given in the scope of supply. Individual item-wise break-up price shall be attached as an annexure to this price bid format.				
20	Installation & Commissioning charges for Sl. No: 10				
30	The price indicated shall be inclusive of all accessories, spares etc. as given in the scope of supply. Individual item-wise break-up price shall be attached as an annexure to this price bid format.				
40	Installation & Commissioning charges for Sl. No: 30				
	Total Value in Words:				
	Ex-Works value.				
	Type of Incoterms (CIP/ CIF / CFR)				
	Packing & Forwarding charges, if Extra				
	Approximate Freight Charges (Freight charges to Chennai Port)				
	Approximate Transit Insurance Charges in Currency				
	Chennai Airport/ Seaport Value in Currency				
	Erection & Commissioning charge in currency				
	Service tax for E&C				
	Approximate Net weight of the total consignment				
	Approximate Gross weight of the total consignment				
	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"

BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI
CAPITAL PURCHASE

Annexure-A2

ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE INDIGENOUS 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 INDIAN VENDORS

Sl. No.	DESCRIPTION
1.	❖ The Bidders shall submit their offer through E-Procurement website only www.bheleps.buyjunction.in. ❖ <u>Part I - Technical and Commercial Bid</u>: This should contain all the copies of technical bid together with un-priced commercial bid. ❖ <u>Part II - Price Bid</u>: 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.	<u>OPENING OF TENDERS:</u> 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.	<u>Taxes and Duties</u> 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, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 & BHEL ECC No. AAACB4146PXM012, Service Tax Registration No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.
4.	<u>Special Provisions for Micro and Small Enterprises (MSE)</u> 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 L1+15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 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 L-1 vendor for each line item wise. ➤ Separate orders for supply & service will be released on the successful L-1 vendor on item wise. (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, Tiruchirappalli.	
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, Tiruchirappalli 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-BHEL, Tiruchirappalli basis . Packing & Forwarding and Freight & Insurance charges from works to BHEL, Tiruchirappalli 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-Trichy).	

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, Tiruchirappalli 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, Tiruchirappalli.	
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 its 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 <table border="1"> <tr> <td colspan="2">Full Address of the company for future correspondence / placing order. (Copy of address proof & PAN card shall be attached along with Part-I)</td> <td colspan="2"></td> </tr> <tr> <td>Company Email ID:</td> <td></td> <td>Phone No.:</td> <td></td> </tr> <tr> <td>Fax No</td> <td></td> <td>Pan No with copy</td> <td></td> </tr> <tr> <td>CST /TIN No</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Name of the contact person:</td> <td></td> <td>Mobile No.:</td> <td></td> </tr> <tr> <td>e-mail ID</td> <td></td> <td></td> <td></td> </tr> </table>			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			
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 <table border="1"> <tr> <td>Country of origin:</td> <td></td> </tr> <tr> <td>Station of dispatch / Port Of Shipment</td> <td></td> </tr> <tr> <td>Delivery Terms: FOR Destination basis</td> <td></td> </tr> <tr> <td>Packing & Forwarding Charges in % or Lump sum, if extra from basic rate</td> <td></td> </tr> <tr> <td>% of Excise Duty with cess</td> <td></td> </tr> <tr> <td>% of TAX (CST / VAT) (TNGST with FORM-17 or CST with C-FORM)</td> <td></td> </tr> <tr> <td>(If applicable only) Installation & Commissioning charge is inclusive (or) exclusive on basic rate.</td> <td></td> </tr> <tr> <td>Service Tax extra or Not</td> <td></td> </tr> <tr> <td>Freight & Transit insurance charges (if any, in Lumpsum (or) percentage) from Dispatching station to BHEL Tiruchirappalli.</td> <td></td> </tr> </table>			Country of origin:		Station of dispatch / Port Of Shipment		Delivery Terms: FOR Destination basis		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 Tiruchirappalli.							
Country of origin:																											
Station of dispatch / Port Of Shipment																											
Delivery Terms: FOR Destination basis																											
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 Tiruchirappalli.																											
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 Trichy etc.) <table border="1"> <tr> <td>Time period required for Installation / Erection & Commissioning from date of site clearance given by BHEL, Trichy.</td> <td></td> </tr> </table>			Time period required for Installation / Erection & Commissioning from date of site clearance given by BHEL, Trichy.																							
Time period required for Installation / Erection & Commissioning from date of site clearance given by BHEL, Trichy.																											
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 <akumar@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)

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 as per tender specification							
20	Installation and Commissioning Charges for Sl. No: 10 (if available in tender scope and exclusive from basic rate for supply portion)							
30	Supply Portion as per tender specification							
40	Installation and Commissioning Charges for Sl. No: 30 (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 HPBP-BHEL, Trichy.							
	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".

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

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
4	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	
2	HELP DESK	eps.customercare@mjunction.in	Landline : 033-66106217/ 6013/ 6426/ 6176/ 6046 (From 9:30am to 5:30pm) 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**"
16. 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