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NOTICE INVITING TENDER(NIT)

**Category of Tender: TWO BID
(PRICED + UN - PRICED)**

SUB: CNC Oxy Fuel & Plasma Cutting Machine

Our Ref: **MM/2/10/3435/CAP/W-029/5029**

DATE: 08.05.2013

Sealed quotations in duplicate are invited from suppliers on **or before 06.06.2013** **SUPERSCRIBING OUR REFERENCE AND CATEGORY OF TENDER** on the cover, for supply of the under mentioned stores within the above due date, otherwise send **REGRET LETTER**, strictly subject to the Terms & Conditions attached herewith.
LATE TENDERS ARE NOT ACCEPTABLE.

ITEM No.	DESCRIPTION / SPECN. / SIZE	QTY
1.	CNC Oxy Fuel & Plasma Cutting Machine	1 No's
	Encl: 1. Qualifying Criteria PART A 4 pages 2. Technical Specifications PART B 13 Pages 3. General Terms/ commercial terms and conditions (INCLUDING CHECK LIST) 10 pages	

For BHARAT HEAVY PLATE & VESSELS LIMITED,

For Dy. GENERAL MANAGER (MM)

PART - A

SECTION – I: QUALIFYING CRITERIA

The BIDDER has to compulsorily meet the following requirements to get qualified for considering the technical offer:

S.NO	REQUIREMENTS	VENDORS OFFER
1	The BIDDER/VENDOR shall have a minimum of TEN years of continuous Experience in the design , Manufacture & supply of CNC Plasma Cutting Machine .	
1.1	Only those vendors (OEMs), who have supplied and commissioned at least FIVE CNC PLASMA CUTTING MACHINES in the past ten years (from the date of opening of Tender) and such equipment is presently working satisfactorily for more than one year after commissioning (from the date of opening of Tender) should quote. However, if such equipment had already been supplied to any of BHPV / BHEL units , then that machine should be presently working satisfactorily for more than six months after it's commissioning and acceptance (from the date of opening of Tender). Bidders who are not OEMs shall submit a letter from the OEM, indicating the bidder as authorised agency for supplying and servicing the quoted equipment. The vendor should submit following information where similar machine has been supplied for qualification of their offer.	
1.2	Along with the Technical offer, the Vendor should submit one Performance certificate from the customer for the satisfactory performance of the machine supplied to them. For obtaining the Performance certificate, a suggestive format is provided in SECTION – IV	
1.3	Name and postal address of the customer or company where similar equipment is installed.	
1.4	Name and designation of the contact person of the customer.	
1.5	Phone, FAX no and email address of the contact person of the customer.	
1.6	Month and Year of commissioning of the equipment.	
1.7	Application for which the equipment is supplied	
1.8	BHPV 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.	
2	DELIVERY - The bidder shall quote the best possible delivery. The delivery shall not exceed 5 months. However, a grace period of 1 month shall be allowed which will have a loading for arriving at the PRICE COMPETITIVENESS of the Commercial Offer (if the offer is technically acceptable on all accounts). Details are given in the Commercial Terms of this Tender. Bidder to specify the time required for E&C. BHPV reserves the right to fix E&C period during Finalization of offer in consultation with the bidder.	

SECTION - II :

S.NO	REQUIREMENTS	VENDORS OFFER
3.0	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where CNC Plasma Cutting Machine have been supplied in the past.	
4	Details of CNC Plasma Cutting Machine supplied to other BHPV / BHEL units, if any. (Year of commissioning)	
5	Details on SERVICE-AFTER-SALES Set-Up in India including the Address of Agents / Service Centres in South India.	
6	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

SECTION - III :

S.NO	REQUIREMENTS	VENDORS OFFER
7	The BIDDER / VENDOR shall submit the offer in TWO PARTS.	
	1. Technical Offer [with PART A & PART B] & commercial offer	
	2. Price Bid.	
8	<p>The Technical Offer shall contain a comparative statement of Technical Specifications demanded by BHPV and Offer Details submitted by the Bidder, against each clause.</p> <p>A just 'CONFIRMED' or 'COMPLIED' or 'YES' or 'NO-DEVIATION' or similar words in the technical comparative statement where specific details are required may lead to disqualification of the Technical Offer.</p>	
9	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.	
10	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.	

SECTION - IV

PERFORMANCE CERTIFICATE

(On Customer's Letter Head with Additional sheet -
if necessary)

1. Supplier of the machine/Equipment
2. Make & Model of the Equipment :
3. Month & Year of Commissioning :
4. Application for which machine is used :
5. Sizes of Jobs Performed in the machine :
6. Performance of the Machine : Satisfactory/Not Satisfactory
(Strike off whichever is not applicable)
7. After Sales Service :
8. Any other remarks :
9. Contact Details :
Name of the Contact Person :
Phone No. :
Fax No. :
E-mail ID :

Date :

Signature & Seal of the Authority
Issuing the performance certificate

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

TECHNICAL SPECIFICATIONS FOR CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE

PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
1.0	PURPOSE	
1.1	Purpose: Oxy-fuel cutting of carbon steels, low alloy steels and air plasma cutting of stainless steel Inconel materials.plates/materials	Vendor to note
2.0	JOB REQUIREMENT :	
2.1	Oxy-fuel cutting : The machine should be capable of cutting carbon steel and low alloy steel plates of following specification:	Vendor to offer& confirm
	(i) Maximum CS plate thickness- up to 75mm (Gas cutting)	
	(ii)Maximum SS plate thickness - up to 40 mm-Sever cut, 32mm- clean cut (for plasma cutting).	
	(iii) Plates of size 3000 mm (Width) x 12000 mm(Length).	
	(iv) Any contour cutting as per CNC programme.	
2.2	PLASMA GAS CUTTING:	
	The machine should be capable of cutting stainless steels, Inconel materials.plates/materials	Vender to offer&confirm
	(i)Maximum SS plate thickness - up to 40 mm -Sever cut. 32mm- clean cut	Vendor to confirm
	ii) Straight , circular , contour cutting as per CNC Programmes.	Vendor to confirm
	iii) Hole Piercing capacity	Vendor to inform
	iv) Plasma GAS -Air/ N2 / Argon	Vendor to confirm
	(v) Plant air at 5 bar pressure will be given for the machine. Vendor to provide Air booster if boosting in pressure is required. Moisture separator/ Air drier to be put in line, before feeding the air to the cutting machine.	Vendor to confirm
	(vi) Argon cylinder with Max pressure of 150 kg/cm ² shall be connected to the Manifold is in vendor scope , wherever the machined is used with Argon.cylinder will be supply by BHPV.	Vendor to confirm
	(vii) Nitrogen cylinder with Max pressure of 150 kg/cm ² shall be connected to the Manifold is in vendor scope , wherever the machined is used with Nitrogen .cylinder will be supply by BHPV.	

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
2.3	SOFTWARE PACKAGE:	
	Required for generation of nesting plans for oxy-fuel and plasma gas cutting on CNC gas/plasma cutting machine facilitating following interface functions:-	Vendor to confirm
	i) Powerful CAD system for design of parts for thermal cutting.	Vendor to confirm
	ii) Auto CAD system for importation of components from Engineering /design departments.	Vendor to confirm
	iii) Auto nesting of components w.r.t thickness & materials grades of components with best utilization of plate.	Vendor to confirm
	iv) Acceptance of ESSI format to read the CNC programme.	Vendor to offer
	v) Software package to take care for remnant (Off cut /scrap pieces)	Vendor to offer
3.0	TECHNICAL SPECIFICATION:	
3.1	Basic Equipment: - Should be capable to one no plate of size 3000 mm x 12000 mm.	Vendor to offer
3.1.1	Heavy duty gantry construction.	Vendor to offer
3.1.2	Powerful double sides synchronized longitudinal rack & Pinion drive.	Vendor to offer
3.1.3	Track width - 3000 mm.(suitable for cutting 3000mm wide plate)	Vendor to offer
3.1.4	Track length - 12000 mm.(suitable for cutting a plate of 12000mm long.	Vendor to offer
3.1.5	Thickness cutting capacity -Up to 75 mm for oxy -fuel cutting.	Vendor to offer
3.1.6	SS Thickness cutting capacity -up to 40 mm-sever cut, 32mm- clean cut for plasma gas cutting.	Vendor to offer
3.2	CUTTING TORCH:	
	The equipment should be capable for mounting of 1 nos cutting torche to cover the whole range of cutting up to 75 mm (maximum) for oxy-fuel cutting & up to 40 mm -sever cut, 32mm - clean cut for plasma gas cutting.	Vendor to offer
3.2.1	Oxy-fuel contour cutting Torch - 1 no (cutting capacity up to 75 mm)	Vendor to offer
3.2.2	Plasma gas cutting Torch- 1 no. 40 mm-sever cut, 32mm -clean cut.	Vendor to offer
3.3.	CONTROL SYSTEM:	
	Two axes CNC control system with programming facility having following features mentioning model ,make ,complete details:-	Vendor to offer
3.3.1	Control unit, operating system & user interface with necessary features including.	Vendor to offer
a	Simple and clearly arranged menu guide for programming	
b	Control panel with large switches for all machine functions.	
c	CPU - (Model/capacity to be specified).	
d	TFT-colour monitors (size/details to be specified).	

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
e	CD drives with USB interface system. (MB to be mentioned)	
f	Digital I/O -Board (details to be mentioned)	
g	Data transfer Facility with additional USB port	
h	Inbuilt standard shapes with variable lead in / lead out.	
i	Programmable kerf & kerf compensation between pierce points.	
l	Angle dependent corner slow down.	
m	Edit /MOI/ Text programme function.	
n	Programe mirror imaging.	
o	Programme rotation in 1 deg.-step.	
q	Zoom function.	
r	Copy function.	
s	Back up function	
t	Look ahead function	
u	Cut observation	
v	Extended diagonistc system with error log function.	
w	Indication of remaining cutting time.	
x	Any other necessary functions needed for meeting job requirements mentioned at clause 2.0 of specification.	
3.3.2	CAD/CAM programming software package to meet job requirements as mentioned at clause 2.0 of specification Vendor to provide details of CAD/CAM programming software including :	Vender to offer
	i) CAD-Module giving details of geometry function, Auxiliary function, Manipulations , Dimensions, Macros, Text input etc.	Vender to offer
	ii) Special functions giving details of marking functions, print output , Data converter, NC link, Simulation, Post processor etc.	Vender to offer
	iii) Path automatic nesting module giving details of lead in/lead out , nesting etc.	Vender to offer
	iv) Parts library with graphic representation.	Vendor to confirm
	v) Work order management.	Vendor to confirm/submit

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
3.3.3	OPERATOR PANEL:	
	i) Operator control panel should display all control features (Refer clause 3.3.1 of specification) & other features & should have all push buttons, signal lamps, gauges, Knobs etc. for easy & comfortable operation.	Vendor to offer/ confirm
	ii) All details of operator Panel to be provided.	Vendor to submit
3.4	DRIVE SYSTEM:	
3.4.1	AC servo motor & drive system including:- i) Longitudinal double side drive ii) Transverse drive & control iii) Rapid drive (speed 6000 mm/min)	Vendor to offer
3.5	PLASMA GAS CUTTING SYSTEM:-	
3.5.1	Power source: Thyristor type with high plasma cutting performance for CNC controlled cutting to meet job requirements as per clause 2.0 of specification.	Vendor to offer
3.5.2	Interfacing of plasma power source with CNC control system (Refer clause no. 3.3. of specification) so that operator can switch over easily from oxy-fuel cutting mode to plasma cutting mode.	Vendor to offer
3.5.3	Carriages with transverse energy system.	Vendor to offer
3.5.4	plasma gas torch suspension system for cutting up to 40 mm -sever cut, 32mm - clean cut	Vendor to offer
3.5.5	Arc height sensing & control system.	Vendor to offer
3.5.6	Plasma gas supply system including manifold, chiller etc.	Vendor to offer
3.5.7	Plasma gas pressure, quality of air at the cutting end to be mentioned w.r.t. thickness range & materials.	Vendor to inform
3.5.8	Details of cooling system & chiller capacity to be mentioned.	Vendor to inform
3.5.9	Any other system to meet job requirements as per clause no.2.0 of specification.	Vendor to offer
3.6	TRACK /ENERGY FEEDING SYSTEM:	
3.6.1	12.0 m track including rack & pinion drive system to ensure accurate, smooth & precise cutting to meet job requirements as per clause no. 2.0 of specification. Track should be accurately machined & aligned.	Vendor to offer
3.6.2	Drag chain type energy feeding system to cover entire range of track length to meet job requirements as per clause no. 2.0 of specification.	Vendor to offer
3.6.3	Drag chain for longitudinal energy feeding system should be strong & flexible and properly supported along total length with sufficient no. of supports so that it can carry total weight of cables & hoses for long time at continuous duty without any breakage or damage of drag chain. Capacity of chain to be mentioned.	Vendor to confirm/inform

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
3.6.4	Carriage for transverse energy system for both oxy-fuel & plasma gas cutting to cover full track width to meet job requirements as per clause 2.0 of specification.	Vendor to offer
3.7	TORCH SUSPENSION SYSTEM:	
3.7.1	Torch suspension system for oxy-fuel cutting including auto ignition device, height sensing device to meet cutting of thickness upto 75 mm (maximum).	Vendor to offer
3.7.2	Torch suspension system for plasma gas cutting including arc height sensing control device to meet cutting at thickness up to 40 mm-sever cut, 32mm -clean cut (maximum)	Vendor to offer
4.0	SCOPE OF SUPPLY FOR CUTTING SYSTEM:	Vender to offer/confirm
4.1	Gantry system.(Refer clause 3.0 of specification)	Vendor to offer
4.2	Heavy duty machined tracks .(Refer clause 3.6 of specification)	Vendor to offer
4.3	Energy feeding drag chain for longitudinal and transverse movements for both oxy-fuel & plasma gas cutting. (Refer clause 3.6.2 & 3.6.3 of specification)	Vendor to offer
4.4	Power source & control system for plasma gas cutting. '-Refer job requirements vide clause no. 2.2 of specification -Refer clause no. 3.5 of specification)	Vendor to offer
4.5	Two axis CNC-control system for both oxy-fuel & plasma gas cutting .(Refer clause 3.3 of specification)	Vendor to offer
4.6	Software package for Auto CAD/Auto nesting & Corresponding hardware requirements. (Refer clause 2.3 & 3.3.2 of specification)	Vendor to offer
4.7	Gas manifold system for both oxy-fuel & plasma gas cutting	Vendor to offer
4.8	i) Gas cutting torches - 1 nos(Refer clause 3.2 of specification)	Vendor to offer
	ii) Plasma cutting torch - 1 no.(Refer clause 3.2.2of specification)	
4.9	Torch suspension system for both oxy -fuel & plasma cutting torches.(Refer clause 3.7 of specification)	Vendor to offer
4.10	Auto ignition device & flashback arrestors fitted with torches.	Vendor to offer
4.11	Powder marking device fitted with Torch for plasma cutting.	Vendor to offer
4.12.	Oxy-fuel - plasma gas interfacing arrangements.	Vendor to offer
4.13	All hoses & cable assemblies required for oxy-fuel & plasma gas cutting system. All power cables & hoses should be of high quality, robust & resistant to heat oil and suitable for tropical environment.	Vender to offer
4.14	Cooling System, Chiller unit etc. for Plasma gas Cutting.	Vendor to offer
4.15	Cutting tables for oxy-fuel & plasma gas cutting.	Vendor to offer
4.16	Removable trays for disposal of slag for entire cutting table of the machine.	Vendor to offer

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
4.17	UPS & STABILISER FOR CNC SYSTEM:	Vendor to offer
4.17.1	UPS unit including rechargeable battery of sufficient time and having provision for unattended automatic shutdown feature for Windows operating system, in case of Fauna equivalent compatible UPS to be offered.	Vendor to offer
4.17.2	Stabilizer of suitable rating	Vendor to offer
4.18	MACHINE LIGHTS:	Vendor to offer
4.18.1	Machine Lights for sufficient illumination of complete working area including operator's panel should be provided for clear visibility.	
4.18.2	All light fittings, consumables, adapters/receptacles should have compatibility with Indian equivalents	Vender to confirm
4.19	AIR CONDITINERS:	Vendor to offer
4.19.1	Independent air conditioners with Dehumidifiers of suitable & sufficient capacity to be provided for each Electrical / Electronic Panels / Cabinets including Operator's Panel considering specified ambient conditions. Detailed specifications of the same to be provided.	Vendor to offer & submit.
4.19.2	Air conditioner must be of refrigerant type.(Refer ambient conditions as per clause no. 17.3 of specification)	Vendor to offer/confirm
4.20	Items required for civil foundation /erection & Earthing of the machine.(Foundation details & Earthing details to be provided)	Vendor to offer
5.0.	ELECTRIC SYSTEM:	
	Power supply: 415V±10%, 50Hz±3% 3 phase AC supply.	Vendor to note
5.1	REQUIREMENT FOR ELECTRICAL EQUIPMENT	Vender to offer
5.2	Power Supply will be provided by BHPV at a single point near the machine, as per layout recommended by Vendor. All types of switches, cables, connections, circuit breakers etc. required for connecting BHPV's power supply point to different parts of the machine should be provided by vendor.	Vender to note &confirm
5.3	Tropicalisation: All electrical / electronic equipment shall be tropicalized.	Vender to confirm
5.4	All electrical & electronic control cabinets & panels should be dust and vermin proof.	Vender to confirm
5.5	All electrical components in the cabinets should be mounted on DIN Rail.	Vender to confirm
5.6.	All electrical / electronic panels to be provided with adequate door locks. All electrical & electronic panels including operator's panel should have sufficient illumination and power receptacles/plug points of 220Volts, 5/15 Amp AC with on/off switch.	Vender to offer
5.7	All motors shall conform to IEC or Indian Standards acceptable to BHPV	Vender to specify

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
5.8	All the cable trays required for laying of cables should be included in the offer.	Vender to offer
5.9	Vendor should ensure the proper earthing for the machine and its peripherals/accessories. Any material requirement for the same should be informed with foundation design/drawings. The vendor can take earthing connection from the nearest column of the production shop.	Vender to note & confirm
6.0.	SAFETY ARRANGEMENTS Following safety features in addition to other standard safety features should be provided on the machine:	Vendor to offer
6.1	Machine should have adequate and reliable safety interlocks / devices to avoid damage to the machine, work piece and the operator due to the malfunctioning or mistakes. Machine functions should be continuously monitored and alarm / warning indications should be generated.	Vender to note & confirm
6.2	A detailed list of all alarms / indications provided on machine should be submitted by the supplier.	Vendor to submit
6.3	Flash back arrestors should be fitted in the Oxygen / fuel pipe lines.	vender to note & confirm
6.4	Non return valves (NRV) should be fitted for fuel/oxygen heating as well as cutting lines.	vender to note & confirm
6.5	All the pipes, cables etc. on the machine should be well supported and protected. These should not create any hindrance to machine operator's movement for effective use Of machine and for maintenance personnels.	Vender to confirm
6.6	Emergency Switches at suitable locations as per International Norms should be provided.	Vendor to offer
6.7	Oil pipe lines should not run with electrical cable in the same trench.	Vender to confirm
7.0.	ENVIRONMENTAL PERFORMANCE The machine should conform to following factors related to environment :	Vendor to offer
7.1.	Maximum noise level shall be 85 dB (A) at normal load condition, 1 meter away from the machine with correction factor for back ground noise, if necessary. This will be measured as per international standards like DIN 45635-16, if required.	Vendor to confirm
7.2.	No hazardous chemicals shall be required to be used in the machine.	Vendor to confirm
7.3.	If any safety / environmental protection enclosure is required it should be built in by the vendor.	Vendor to confirm
7.4.	Paint of the machine should be oil resistant & should not get peeled off.	Vendor to confirm

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
8	FAULT DIAGNOSTIC SYSTEM :	
8.1	Suppliers own diagnostic system with required Software and Hardware installed on the CNC system, which shows detailed cause and remedy for the fault on the CNC system display with full diagnostics indicating the element /device causing the fault.	Vendor to offer & submit.
9.0.	LEVELING & ANCHORING SYSTEM	
	Complete set of anchoring materials including foundation bolts, nuts, washers, fixators, leveling shoes etc for alignment of tracks, leveling of tracks & transverse carriage, torch suspension system & fix the machine to the foundation. Details to be submitted.	Vender to offer/confirm
10.0.	TOOLS FOR ERECTION, OPERATION & MAINTENANCE	
10.1.	Tools and Equipment required for erection of the machine shall be brought by the vendor. Necessary tools like Torque Wrench, Spanners, Keys, grease guns etc. for operation and maintenance of the machine should be supplied by the vendor. List of such tools & machine equipments to be submitted.	Vender to offer/confirm
10.2.	Set of Test instruments for alignment of track, carriage, checking levelling of cutting table to be brought by vendor. List of instruments to be submitted.	Vender to offer/confirm
11.0.	SPARES (To be quoted separately.)	
11.1.	Item wise breakup of mechanical, electrical and electronic & CNC spares in sufficient quantity as per recommendation of Vendor for 2 years of trouble free operation on continuous running basis.	Vendor to offer
11.2	Mechanical Spares: Following Spares are to be offered.	Vendor to offer
11.2.1	Gears & Pinions. (1 No.	Vendor to offer
11.2.2	Solenoid valves	Vendor to offer
11.2.3	Flashback arrestors.	Vendor to offer
11.2.3	Bearings used.	Vendor to offer
11.2.4	Gas regulators.	Vendor to offer
11.3.0	Electrical /Electronic / CNC Spares: Following Spares are to be offered.	Vendor to offer
11.3.1	Relays (1 Nos each type)	Vendor to offer
11.3.2	Contactors (1 Nos each type)	Vendor to offer
11.3.3	Proximity Switches (1 Nos each type).	Vendor to offer
11.3.4	Push Buttons (1 Nos each type)	Vendor to offer
11.3.5	Indicating Lamps (1 Nos each type)	Vendor to offer
11.3.6	Semiconductor Fuses (1 Nos each type)	Vendor to offer
11.3.7	Special Fuses (1 Nos each type)	Vendor to offer
11.3.8	Circuit Breakers (1 No each type)	Vendor to offer
11.3.9	Main Power Switch (1 No each type)	Vendor to offer

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
11.3.10	Encoders (1 No each type) if used.	Vendor to offer
11.3.11	Scanning Heads for Linear Scales (1 No each type)if used	Vendor to offer
11.3.12	Software's back up on CD/hard disc (if used).	Vendor to offer
11.3.13	Main CPU Board.	Vendor to offer
11.3.14	Ext. PLC CPU, Power supply & I/O unit 1 no. (If used)	Vendor to offer
11.3.15	Complete plasma arc height sensing system.	Vendor to offer
11.3.16	Anti collision device.	Vendor to offer
11.3.17	All PCB's of Plasma Power source unit.	Vendor to offer
11.3.18	Power elements of plasma power source.	Vendor to offer
11.3.19	Power lead of plasma torch.	Vendor to offer
11.3.20	Operator's panel with Display Unit(If used)	Vendor to offer
11.3.21	I/O Cards for PLC (1 No each type)	Vendor to offer
11.3.22	One each of the following items : CNC /PLC Power Supply, Control Panel, Any other auxiliary drive , if used, Complete Proportional Valve Controller, if used.	Vendor to offer
11.3.23	i) 1 nos spare Gas cutting Torch & Nozzles.	Vendor to offer
	ii) 1 nos spare Plasma cutting Torch with Electrode & Nozzles.	Vendor to offer
11.4	All types of spares for total machine and accessories should be available for at least ten years after supply of the machine. If machine or control is likely to become obsolete in this period, the vendor should inform BHPV sufficiently in advance and provide spares.	Vendor to confirm
11.5.	Complete list of spares for machine and accessories, with proper identification No. /Code. Complete list of all Bought out items along with specification /Type , rating ,model, make & address of supplier. Details technical leaflets, literature for all bought out item, accessories etc. of the supplier. All the details given on the drawing and manual should be in English .Address of the spare supplier shall be furnished along with documentation to be supplied with the machine	Vendor to confirm/submit
12.0	DOCUMENTATION : Three sets of following documents (Hard copies) in English language should be supplied along with the machine:-	Vendor to offer/confirm
12.1	O & M manuals of Machine & CNC system (3sets)	Vendor to submit
12.2	Programming Manuals of Machine & CNC system	Vendor to submit
12.3	Detailed Maintenance manual of machine with all drawings of machine assemblies/sub-assemblies/parts including Electrical / circuit diagrams. All mechanical Assembly/ Sub Assembly Drawings shall be supplied with the part list also in English.	Vendor to confirm/submit

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
12.4	Hardware manual of CNC system.	Vendor to submit
12.5	Interface & commissioning manuals for CNC system.	Vendor to submit
12.6	Electrical schematic wiring diagram junction Box details, connector pin details cable layout.	Vendor to submit
12.7	O &M manual of plasma power source.	Vendor to submit
12.8	Wiring diagram, Circuit diagram, Component layout of plasma Source.	Vendor to submit
12.9	Interface description of Plasma Source with main machine.	Vendor to submit
12.10	Alarm list & diagnostic manual of plasma unit.	Vendor to submit
12.11	Manual of all bought- out items , Spare parts list and complete addresses of bought- out items supplier.	Vendor to submit
12.12	Catalogues, Operation & Maintenance Manuals of all bought out items including drawings, wherever applicable.	Vendor to submit
12.13	Details of operator's Panels.	Vendor to submit
12.14	Operating Manuals, Maintenance Manuals & Catalogues for supplied accessories.	Vendor to submit
12.15	PLC program, NC data & PLC data on CD.	Vendor to submit
12.16	Operating system & PLC back up on CD.	Vendor to submit
12.17	Details of drives controlling the valves.	Vendor to submit
12.18	Complete list of parts/items (Bill of materials) used in the machine in English language.	Vendor to submit
12.19	One additional set of all the above documentation on CD ROM, wherever possible.	Vendor to submit
13.0	FOUNDATION	
13.1.	Vendor shall submit the foundations layout drawings giving load points, static/ dynamic loading for BHPV's approval within one month from the date of Letter of Intent (LOI) or Purchase Order, whichever is earlier.	Vendor to confirm

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
13.2.	Foundation of the machine will be designed by BHPV and will be concurred by the supplier.	Vendor to confirm
13.3	Construction of foundation will be carried out by BHPV under the supervision of supplier/ supplier representative.	Vendor to confirm
15.0	ERECTION & COMMISSIONING	
14.1.	Erection & Commissioning of track, Gantry, Drag chain, carriage, Power source, cable /hose assemblies, gas manifolds, UPS / Voltage stabilizer, with all mechanical /electrical connections shall be responsibility of vendor.	Vendor to offer
14.2	Successful proving of BHPV components by the supplier shall be considered as part of commissioning for the machine.All tests, as mentioned at Sl. No. 19.0 (Machine Acceptance) and testing/demonstration of tele-diagnostic service etc. shall also be part of erection /commissioning.	Vendor to offer
14.3	Tools, Tackles, instruments and other necessary equipment/ tools required for carrying out all erection & commissioning activities should be arranged and brought by the supplier.	
14.4	Commissioning spares, required for commissioning of the machine within stipulated time, shall be brought by the supplier on returnable basis.	Vendor to confirm
14.5.	Schedule of Erection and Commissioning shall be submitted with the offer.	Vendor to submit
14.6	Terms & conditions for Erection & Commissioning should be furnished in detail separately by vendor along with offer.	Vendor to submit
14.7.	Portion, if any, of the machine, accessories/attachments and other supplied items where paint got rubbed or peeled off during transit or erection should be repainted and matched with the original adjoining paint by the vendor.	Vendor to confirm
15.0	PROVEOUT	
15.1.	Successful cutting of components by vendor as per BHPV requirements through AUTO CAD/ AUTO NESTING /Programming to the specified cutting capability & quality of cut (as per job requirement vide clause no. 2.0 of specification) at BHPV works, using software Package / Tools etc. supplied by Vendor.	Vendor to confirm& offer
16	TRAINING	
16.1.	BHPV Persons should be trained at BHPV :	Vendor to offer
	(a) Operation of the machine.	
	(b) CNC Programming for the machine.	
	(c) Mechanical maintenance of the machine.	
	d) Electrical /Electronic maintenance of the machine.	

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
16.2	Competent, English speaking experts shall be arranged by the vendor for satisfactory & effective training of BHPV personnel.	Vendor to confirm
17.0	AMBIENT CONDITIONS & THERMAL STABILITY	
17.1	Total machine including all supplied items should work trouble free and should give specified accuracies under existing power supply and ambient operating conditions, as mentioned below.	Vendor to confirm
17.2	Power Supply (AC): Voltage = 415V +/-10%, Frequency=50Hz +/-5%, No. of phases = 3 phase with neutral.	Vendor to note.
17.3	Ambient Operating Conditions: Temperature = 5 to 45 degree Celsius, Relative Humidity = 93% max.	Vendor to note.
17.4	The machine should be suitable for continuous operation to its full capacity for 24 hours a day and 7 days a week throughout year. Vendor to ensure and confirm the same.	Vendor to offer & confirm
18.0	MACHINE ACCEPTANCE (Tests/Activities to be performed & demonstrated by Vendor)	
18.1	Tests/Activities to be carried out at vendor's works on the machine before dispatch :	
18.1.1	Demonstration of specified/offered Geometrical accuracies as per test chart/standard and specified values.	Vendor to accept &confirm
18.1.2	Demonstration of all features of the machine, control system &accessories	Vendor to accept &confirm
18.1.3	Test pieces for testing at vendor works shall be in vendors scope	Vendor to confirm
18.2	Tests/Activities to be carried out at BHPV works while commissioning the machine :	Vendor to accept &confirm
18.2.1	Demonstration of specified/offered Geometrical accuracies as per test chart/standard and specified values.	Vendor to accept &confirm
18.2.2	Full load test to demonstrate the maximum power & cutting capacity of the machine.	Vendor to accept &confirm
18.2.3	Demonstration of all features of the machine, control system & accessories to the satisfaction of BHPV for efficient and effective use of the machine.	Vendor to accept &confirm

CNC OXY FUEL (LPG) & PLASMA GAS CUTTING MACHINE PART B

SL. NO.	DESCRIPTION OF BHPV REQUIREMENT	Vendors Offer
18.2.4	Training of BHPV machine operators in operation of complete machine & accessories etc by the supplier's experts / engineers during their stay at BHPV works.	Vendor to accept &confirm
19	PACKING	
	Sea worthy & rigid packing for all items of complete machine, CNC System, all Accessories and other supplied items to avoid any damage/loss in transit. When machine is dispatched in containers, all small loose items shall be suitably packed in boxes. In c	Vendor to accept &confirm
20	GUARANTEE	
	Guarantee for complete machine and all supplied accessories/attachments/equipments/items for 12 months from the date of commissioning or 18 months from the date of supply which ever is earlier. .	Vendor to offer
21.0	GENERAL	
21.1	Machine Model No.	Vendor to inform
21.2	Total connected load (KVA) Vendor to inform	Vendor to inform
21.3	Total Space required (Length, Width, Height) for complete machine, accessories/attachments and other supplied items like Voltage Stabilizer, Isolation Transformer.	Vendor to inform
21.4	Painting of Machine / Electrical Panels : RAL 6011 Apple Green (Polyurethane Paint)	Vendor to offer
21.5	Total weight of the machine	Vendor to inform
21.6	Weight of heaviest part of machine	Vendor to inform
21.7	Weight of the heaviest assembly of the Machine	Vendor to inform
21.8	Dimensions of largest part of the machine	Vendor to inform
21.9	Detailed catalogues, sketches/drawings/photographs pertaining to the offered machines and accessories/attachments/items should be submitted with the offer.	Vendor to inform
21.10	All Cables and Hoses etc. should be well supported & protected in trays/brackets/drag chains etc. All designed & operating parameters for plasma power source, compressor, chiller unit etc. should be provided.	Vendor to submit

COMMERCIAL TERMS AND CONDITIONS FOR SUBMISSION OF OFFER**1.0 QUOTATIONS**

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

Envelope I: This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked “**Part I – Technical and Un-priced commercial bid**” Indicating Tender No., Due Date and Address & Reference of the Bidder.

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

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

The above offer should reach this office on or before the due date by 14.00 Hrs (IST)
Tender should not be addressed to any Individuals name but only designation to

Dy. General Manager (MM)
BHARAT HEAVY PLATE & VESSELS LIMITED
VISAKHAPATNAM - 530 012 (A P), INDIA.

Tenders should be free from CORRECTION AND ERASURES. Corrections if any must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Offers should be in ENGLISH and accompanied by technical literature catalogue and detailed dimensional drawings in ENGLISH or otherwise the offers will not be considered.

2.0 PART I (TECHNICAL & UN-PRICED COMMERCIAL BID)**2.1 Technical**

This part shall include / indicate the following:

- 2.1.1. Offer should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.
- 2.1.2. Point by point confirmation for the Technical Specification enclosed is to be provided. If there are any deviations the same should be clearly specified. Offers received without conformation to our specification will be rejected.
- 2.1.3. List of customers to whom same or similar equipment have been supplied along with performance certificates to be enclosed.
- 2.1.4. Relevant catalogue to be attached.
- 2.1.5. List of spares parts (with part numbers) for two years operation and maintenance should be attached.
- 2.1.6. Information on shipping weight and cubage (length, width & height) to be provided
- 2.1.7. In case of foreign bidder offer, the Principal's technical offer only should be enclosed.

2.2 Un-Priced Commercial

This part shall include / indicate the following

- 2.2.1. Port of shipment / Station of dispatch
- 2.2.2. Terms of payment

- 2.2.3. FOB/FCA price along with freight charges up to Chennai port (for foreign bidders) Ex-works/FOR Dispatch Station price along with freight charges up to BHPV Visakhapatnam (for Indian bidders)
- 2.2.4. Taxes, Service tax & duties including Cess applicable.
- 2.2.5. Delivery Schedule
- 2.2.6. Filled-in check list to be enclosed
- 2.2.7. Offer validity
- 2.2.8. Country of origin
- 2.2.9. Percentage of agency commission if any along with a copy of Agency agreement The FOB/FCA/CFR Prices quoted shall include the agency commission.
- 2.2.10. A copy of "Un-Priced Part II 'i.e., a copy of the Price Bid without the price details to be enclosed.
- 2.2.11. BHPV is eligible for availing CENVAT / VAT credit on both inputs and capital inputs. The suppliers invoice should separately indicate the amount of duty / taxes and should invariably mention the following details:
 1. The Central excise registration number, range division and commission rate of the supplier's jurisdiction.
 2. The rate of duty and 8 digit central excise tariff heading of the item supplied.
 3. The TIN, VAT, CST registration number of the supplier.

The duplicate copy of the invoice is required for availing CENVAT credit and original copy for availing VAT credit, if purchased within the state.

In case of foreign bidders the duplicate copy of the electronic Bill of Entry along with TR6 challan should be made available for availing CENVAT credit on CVD, Cess (S) and SAD.

3.0 **PART II (PRICE – BID)**

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

4.0 **OPENING OF TENDERS**

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

The Part II – Price bid of technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the Price Bid opening date. Clarifications if any required by BHPV FOR Technical evaluation / commercial evaluation would be sought from Bidders before opening of Part II – price bid.

GENERAL

- 5.1 Incomplete offers will not be considered.
- 5.2 **Fixed priced:** 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 regards to total price.
- 5.3 **Bid currency:** Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit their bid in their home currency, which should be clearly indicated in the un-priced commercial bid as well as in the price bid. Price bid opening date/ RA date will be considered as effective date for considering exchange rate to evaluate the offers.
- 5.4 **Terms of Delivery:** Bidders are required to quote their best delivery period. Foreign Bidders should submit their offer for net FOB/ FCA – Nearest Sea Port / Air Port as well as CFR / Chennai Seaport/ Airport. Freight charges up to Chennai port to be indicated separately. Indian Bidders should submit their offer for Dispatching station as well as FOR BHPV Visakhapatnam basis. Freight charges from works to BHPV Visakhapatnam to be indicated separately. Delivery from the date of Letter of Intent to be mentioned in the offer.

5.5 **Taxes and Duties:** All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No/ Tariff No. etc, failing which the purchaser will not be liable for payment of such Taxes and Duties (Our TIN No.28280189432, APGST No. VSP/04/1/1023 dated 24.08.1968. CST No.VSP/04/1/1012 dated 24.08.1968 & BHPV ECC No AAA CB 7076 N-XM001. Assessment circle Visakhapatnam.)

5.6 **Validity:** The offers for main equipment and spares shall be kept open for acceptance for a period of 120 days (one hundred and twenty days) from the dates of opening of the tender (part I)

5.7 Terms of Payment:

5.7.1 Indian Bidders:

5.7.1.1 BHEL, Trichy on behalf of BHPV (Subsidiary of BHEL) will arrange for an irrevocable, usance Letter of Credit (60 days from date of dispatch) after receipt of Inspection release note and against presentation of documents for 80% of payment (80% of basic price + 100% Taxes). And balance 20% of payment will be made after acceptance of material/commissioning of the equipment at BHPV, Visakhapatnam and on submission of Performance Bank Guarantee.

5.7.1.2 Documents to be submitted by Indian Bidders for negotiating LC:

1. Original Invoice in triplicate in the name of BHPV.
2. Original LR in the name of the LC issuing Bank
3. Original packing list in triplicate in the name of BHPV.
4. Original Test certificate in triplicate in the name of BHPV.
5. Inspection release Note.
6. One original Bank guarantee, if applicable in favour of BHPV.
7. Certificate issued by the beneficiary certifying that the materials dispatched and shown in the packing list are not less than that invoiced.
8. Insurance for 100% of the commercial invoice value made out in the name of LC issuing bank, covering all risks.
9. Any other conditions/documents as mentioned in the Purchase Order.

5.7.1.3 Additional conditions for Indian Bidders:

1. **Liquidated damages:** Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional penalty at the rate of ½% of the value of goods for each week of delay subject to a maximum of 10% of the Purchase Order value.
2. In the event of delayed presentation of documents beyond the validity for negotiation(Subject to acceptance of documents by Applicant), 5% of invoice value will be retained towards demurrage and other charges and the difference if any between actual charges and recovery will be settled between BHPV and beneficiary outside the purview of LC terms.

5.7.2 Foreign Bidders

An Irrevocable letter of Credit shall be established by BHEL, Trichy on behalf of BHPV (Subsidiary of BHEL) for 80% of FOB/FCA/CFR/ (excluding Indian Agent's commission) 2 months prior to shipment with a validity of 3 months and negotiation after shipment against shipping documents. Letter of Credit shall be opened through an authorized bank of BHEL in India. Balance 20% of FOB/FCA/CFR value shall be paid through sight draft on Commissioning & acceptance of the equipment at BHPV Visakhapatnam, against submission of 10% performance bank guarantee. All Bank charges outside India are to supplier's account. Lump sum erection and commissioning charges if any shall be payable after satisfactory erection & commissioning of the equipment by sight draft against certificate issued by the competent authority.

5.7.2.1 Documents to be submitted by Foreign Bidders for negotiating LC:

1. Original Invoice in triplicate in the name of BHPV.
2. Original bill of lading in triplicate in the name of the LC issuing bank.
3. Original packing list in triplicate in the name of BHPV.
4. One original certificate of origin.
5. Original Test certificate in triplicate in the name of BHPV.
6. Inspection release Note.
7. One original Bank guarantee, if applicable in favour of BHPV.
8. Certificate issued by the beneficiary certifying that one copy of non-negotiable documents comprising Bill of Lading, Invoice, Packing List, Certificate of country of origin and Test certificate sent to Port consignee.
9. Certificate issued by the beneficiary certifying that the materials shipped and shown in the packing list are not less than that invoiced.
10. Insurance for 110% of the commercial invoice value made out in the name of LC opening bank, covering all risks, clearly mentioning the name of claim settling agent in India. The claims will be settled in the same currency as that of LC.
11. Any other conditions/documents as mentioned in the Purchase Order.

5.7.2.2 Additional conditions for Foreign Bidders:

1. **Liquidated damages:** Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional penalty at the rate of ½% of the value of goods for each week of delay subject to a maximum of 10% of the Purchase Order value.
2. In the event of delayed presentation of documents beyond the validity for negotiation (Subject to acceptance of documents by Applicant), 5% of invoice value will be retained towards demurrage and other charges and the difference if any between actual charges and recovery will be settled between BHPV and beneficiary outside the purview of LC terms.

5.7.3 Common to both India & Foreign Bidders.

Erection & Commissioning (E&C) charges will be released after deduction of Income Taxes as per the Govt. of India rules. The TDS certificate will be issued by BHPV. Applicable service tax on E&C charges will be payable extra. The liability of depositing the same to the Govt. will be of the supplier.

- 5.7.4 Loading criteria common to both Indian and foreign bidders:** Vendor should accept the payment terms specified above. However for any deviation to the payment terms offered with reference to the above criterion will be loaded with prime lending rate of SBI prevailing on date of opening of price bid + %, which shall be computed for the differential period between BHPV terms of payment and the offered payment terms by vendor.

- 5.8 DUNS number (allotted by M/s. DUN & Bradstreet) shall be mentioned in your offer.
- 5.9 **Guarantee:** The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier.
Offers from vendors not accepting to the requested guarantee period will be rejected.
- 5.10 **Contract Execution Bank Guarantee (CEBG):** The successful tenderer shall furnish a Bank Guarantee from any Nationalized Bank for 5% of Purchase Order value (FOR Dispatching station value – Excluding taxes, duties, freight & insurance – for Indian bidders) & (FOB/FCA value – excluding freight & insurance – for foreign bidders) confirming that the order will be executed as per the terms and conditions and this should be valid till final dispatch date (LR/GR/BL/AWB) with additional 2 months claim period. Letter of Credit will be processed only after receipt of CEBG. The CEBG is to be furnished within 3 weeks from the date of Purchase order.
Offers from vendors not accepting to submit CEBG will be rejected.
- 5.11 **Performance Bank Guarantee (PBG):** The supplier shall furnish a Bank guarantee from any Indian Nationalized Bank approved by BHPV in the format, given by BHPV along with purchase order for 10% of the Purchase Order value (FOR Dispatching station value – Excluding taxes, duties, freight & insurance – for Indian bidders) & (FOB/FCA value – excluding freight & insurance – for foreign bidders) valid for period of guarantee with additional claim period of 2 months.
Offers from vendors not accepting to submit PBG will be rejected.
The CEBG & PBG shall be obtained from any Indian Nationalized Bank/ Scheduled Commercial Banks.
- 5.12 **Liquidated damages:** Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional penalty at the rate of ½% of the value of goods for each week of delay subject to a maximum of 10% of the Purchase Order value.
- 5.12.1 **Loading Criteria for Liquidated Damages:** Any deviation from above LD Clause to the extent for which LD is not agreed by the vendor i.e., differential % value will be loaded on basic price, e.g. If some vendor agrees for say maximum of 6% LD then his price will be loaded by 4% (10 – 6) of his quoted basic price.
- 5.13 **Risk purchase:** If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHPV will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order.
Offers from vendors not accepting the above Risk Purchase terms will be rejected.
- 5.14 **Indian Agent & Agency commission:** An Indian Agent can represent only one Foreign Manufacturer against a particular Tender. The FOB/FCA/CFR price quoted by the Foreign bidder shall include the agency commission. However, the agency commission component payable to their Indian Agents shall be shown separately in the offer. This will be paid by BHPV in India Rupees, on satisfactory commissioning & acceptance of the equipment. Copies of current Agency Agreement / Authorization Letter in respect of Agency Commission shall be furnished along with offer. For calculation of Rupee equivalent of Agency Commission exchange rate as prevailing on the date of Purchase Order will be taken.
- 5.15 **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, BHPV - Visakhapatnam, basis.

- 5.16 **Inspection & Testing:** All goods shall be subject to inspection by BHPV or its authorized representatives at supplier's works or at BHPV stores. 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 BHPV, Visakhapatnam.
- 5.17 **Operating and Maintenance manuals:** The Bidders shall clearly mention in their offer that Operating Maintenance Manuals as called for in the Technical Specification in the required number of copies will be provided.
- 5.18 **Cenvat & VAT credit. (for Indian Bidders only):** The quotation must indicate Tariff item number and rate of Excise Duty applicable. The original Excise Duty Gate Pass will be required to be furnished in case charges to us. If the bidder is availing Cenvat credit for his input materials, the effect of proforma credit should be passed on to the purchaser.
- 5.19 **Packing:** The Supplier shall arrange for packing suitably in all respects considering the peculiarity of the material involves for normal transport by sea / air / rail road and suitably protected against effect of tropical salt laden atmosphere in the event of shipment being delayed at ports.
- 5.20 **Salient Points of HSE** (Health, Safety & Environment) that are to be considered while submissions of offer are:
- 5.20.1 Consumption benchmarks related to output shall be provided wherever applicable for key input resources (energy/fuels/chemicals)
- 5.20.2 Competency requirements for operation, maintenance and calibration, if any, shall be communicated
- 5.20.3 If any Hazardous chemicals as per MSIHC (Manufacturing, Storage and import of Hazardous Chemicals) Rules 1989/94/2000 are used, the MSDS shall be provided, along with on site & OFF site emergency plan (as applicable).
- 5.20.4 The noise level at operator level shall be within 90 Dba
- 5.20.5 OH&S (Occupational Health and Safety) control measures for safe working of machine as applicable shall be specified
- 5.20.6 The machine/equipment shall be fitted with guard for rolling and moving parts and shall comply with applicable OH&S legislations and Factories Act 1948
- 5.20.7 The supplier shall submit the layout drawing of operating controls, displays etc and operating instructions to enable ergonomics evaluation and approval
- 5.20.8 The recommended PPE (Personal Protective Equipment) for the equipment shall be furnished
- 5.20.9 Alarm System (both visual and audible) and Automatic switch off of the equipment shall be provided for any intrusion, overloading, short circuiting or any malfunctioning of the equipment.
- 5.20.10 Details of all hazardous / harmful substances discharges as by-products / wastes during operations of the machine / equipment, such as fumes, gases, dust particles, aerosols UV./IR (Ultra violet / Infra red) radiations, etc shall be furnished, along with their concentrations and their TLV, (Threshold Limit Value)

- 5.20.11 Appropriate pollution control measures shall be proposed to keep the emissions from the machinery / processes within the prescribed limit as stated in Environment Protection Rules 1986.
- 5.20.12 All furnaces, process units, DG sets, paint booths, shot blasting chambers, etc shall be provided with stack(s) of sufficient height as per guidelines laid down in the Environment Protection Rules 1986.
- 5.20.13 wherever industry specific standards are not available for control of pollutants, general emission standards shall be used
- 5.20.14 Chemicals banned due to their negative impact on the environment shall not be used on the process
- 5.20.15 Fuels with sulphur content less than 0.05% shall be proposed.
- 5.20.16 Details regarding nature of waste generated and appropriate disposal practices available shall be provided, along with the operation procedure of the plant / process.
- 5.20.17 Hazardous chemicals and flammable substances shall be transported only through authorized transporters and all safety practices as laid down in applicable legislative requirements such as Central Motor Vehicle Rules, Manufacture, Storage and Import of Hazardous Chemical 1989, etc. shall be followed.
- 5.20.18 Primary materials used in the equipment shall be specified and they shall be eco - friendly.
- 5.21 Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHPV).
- 5.22 BHPV also reserves its right to allow to the Public Sector Enterprises ordering and price preference facilities as admissible under the existing policy.
- 5.23 BHPV reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at another project / unit.
- 5.24 BHPV 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 BHPV.
- 5.25 BHPV 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 governing RA are given below.

GENERAL TERMS AND CONDITIONS OF RA (REVERSE AUCTION)

Against this enquiry for the subject item/system with detailed scope of supply as per enquiry specifications. BHPV may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET.

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. BHPV will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
3. BHPV will inform the vendor in writing in case of reverse auction, the details of service provider to enable them to contact & get trained.

4. Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
 5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.
 6. BHPV will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at “Total Cost to BHPV like Packing & Forwarding charges, taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHPV standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
 7. Reverse auction will be conducted on scheduled date & time.
 8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.
 9. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHPV through Service provider within 24 hours of Auction without fail.
 10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHPV as per prevailing procedure.
 11. In case BHPV decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHPV shall be opened as per BHPV’s standard practice.
- 5.26 **Force Majeure clause:** If at the time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist, if the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

CHECK LIST

Bidder's acceptance to BHPV's Standard Commercial Terms & Conditions.

Applicable for Indian bidders

(To be submitted along with the offer – please do not change the format)

BHPV Tender No: & Date:	Bidders Confirmation / response
Prices have been quoted on "FIRM PRICE" basis only (Yes / No)	
Prices have been quoted on "F.O.R BHPV" basis only (Yes / No)	
P & F (Please confirm whether included or not)	
Freight (Please confirm whether included or not)	
Insurance (Please confirm whether included or not)	
Validity of offer (we require a minimum period of 120 days from the date of Tender Opening – please Specify)	
Sales Tax (please Specify)	
Excise Duty (please Specify)	
Delivery period from the date of Purchase Order (please Specify). A loading @ ½ % of the Purchase Order value per week will be done for the grace period requested. For evaluation 4 weeks will be considered as one month. Vendors quoting a delivery period beyond the 'the requested delivery plus the allowed grace period' is liable for rejection.	
Liquidated damages as per clause 5.12 (we require acceptance to @ ½% per week subject to a maximum of 10%) (Yes / No)	
Risk Purchase as per clause 5.13 (Yes / No) (Offers from vendors not accepting the Risk Purchase terms will be rejected)	
Payment terms (As per Clause No. 5.7.1) (Yes / No)	
Contract Execution Bank Guarantee (CEBG) as per Clause 5.10 (Yes / No) (Offers from vendors not accepting to submit CEBG will be rejected)	
Performance Bank Guarantee (PBG) as per Clause 5.11 (Yes / No) (Offers from vendors not accepting to submit PBG will be rejected)	
Guarantee as per clause 5.9 (The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier) (Yes / No) (Offers from vendors not accepting to the guarantee period will be rejected)	
Inspection (please Specify the Place of Inspection)	
Erection & Commissioning/ Installation/ Training (Please confirm whether charges are included in the total cost or not)	
Approximate Net Weight of the total Consignment	
Approximate Gross Weight of the total Consignment	

Signature & Office Seal of the bidder

CHECK LIST

Bidder's acceptance to BHPV's Standard Commercial Terms & Conditions.

Applicable for foreign bidders (To be submitted along with the offer – please do not change the format)

BHPV Tender No: & Date:	Bidders Confirmation / response
Prices have been quoted on "FIRM PRICE" basis only (Yes / No)	
Prices basis (FOB/CFR/CIF – Please Specify)	
Insurance (Please confirm whether included or not)	
Validity of offer (we require a minimum period of 120 days from the date of Tender Opening – please Specify)	
Currency in which quoted (please Specify)	
Port of loading (please Specify)	
Country of Origin (please Specify)	
Delivery period from the date of Letter of Intent (please Specify) A loading @ ½ % of the Purchase Order value per week will be done for the grace period requested. For evaluation 4 weeks will be considered as one month. Vendors quoting a delivery period beyond the 'the requested delivery plus the allowed grace period' is liable for rejection.	
Liquidated damages as per clause 5.12 (we require acceptance to @ ½% per week subject to a maximum of 10%)	
Risk Purchase as per clause 5.13 (Offers from vendors not accepting the Risk Purchase terms will be rejected) (Yes / No)	
Payment terms (As per Clause No. 5.7.2)	
Agency commission (refer clause 5.14)	
Contract Execution Bank Guarantee (CEPG) as per Clause 5.10 (Yes / No) (Offers from vendors not accepting to submit CEBG will be rejected)	
Performance Bank Guarantee (PBG) as per Clause 5.11 (Yes / No) (Offers from vendors not accepting to submit PBG will be rejected)	
Guarantee as per clause 5.9 (The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier). (Offers from vendors not accepting to the requested guarantee period will be rejected) (Yes / No)	
Inspection (please Specify)	
Erection & Commissioning/ Installation/ Training (Please confirm whether charges are included in the total cost or not)	
Dimension of the Largest Part (please Specify)	
Packing Schedule (No of containers and their Sizes) (please Specify)	
Approximate Net Weight of the total Consignment (please Specify)	
Approximate Gross Weight of the total Consignment (please Specify)	

Signature & Office Seal of the bidder