

BHARAT HEAVY PLATE & VESSELS LIMITED.,  
(A Subsidiary Bharat Heavy Electricals Limited)  
A Government of India Enterprises  
Visakhapatnam – 530 012 INDIA.  
web site: [www.bhpvl.com](http://www.bhpvl.com)



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E-Mail : [skmishra@bhpvl.com](mailto:skmishra@bhpvl.com),

**NOTICE INVITING TENDER( NIT)**

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

**SUB: Retrofit and Reconditioning of Portal  
Type Gas Cutting Machine**

Our Ref: **MM/2/10/3057/CAP/W-099/5103**

**DATE: 10.08.2012**

Sealed quotations in duplicate are invited from suppliers on **or before 13.09.2012** **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.	Retrofit and Reconditioning of Portal Type Gas Cutting Machine (Estimated Cost of wok is <b>Rs. 50 Lakhs</b> )	<b>1 No's</b>
	<b>Encl:</b>  <b>1. Qualifying Criteria PART A</b> ..... <b>3 pages</b> <b>2. Technical Specifications PART B</b> ..... <b>9 Pages</b> <b>3. General Terms/ commercial terms and conditions</b> ..... <b>10 pages</b> <b>(INCLUDING CHECK LIST)</b>	

**For BHARAT HEAVY PLATE & VESSELS LIMITED,**

**For Dy. GENERAL MANAGER (MM)**

# RETROFIT AND RECONDITIONING OF PORTAL TYPE GAS CUTTING MACHINE PSR-45

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## PURPOSE:

To completely retrofit and recondition Portal type gas cutting Machine PSR-45.

## NOTES:

1. Vendor must submit complete information for all the clauses mentioned below. The offers meeting this clause would only be processed.
2. The column "**BIDDER'S OFFER WITH CONFIRMATION & COMPLETE TECHNICAL DETAILS**" of this Format shall be filled in by the Vendor and submit along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications / requirements shall be treated as non-compliance and lead to disqualification of the offer without asking queries.
3. The offer and all documents enclosed with offer should be in English language only.
4. Vendors MUST visit BHPV, Visakhapatnam and study the existing machine before submission of quotation. The cut-off date for visit to BHPV for inspection of the Flame cutting Machine, clarification to the vendors to be completed 7 days prior to the tender due date.
5. Reconditioning of the machine should be completed within 5 Months from the date of receipt of PO. Vendor to mobilize resources accordingly to complete the job in 5 Months in all respects.
6. Vendors must indicate makes of all components that are being supplied as a part of this tender. Shall be clearly indicated in a separate sheet.

<b>ADDRESS OF THE SUPPLIER :</b>	<b>ADDRESS OF THE INDIAN AGENTS :</b>
<b>TELEPHONE NOS.:</b>	<b>TELEPHONE NOS.:</b>
<b>FAX NOS.:</b>	<b>FAX NOS.:</b>
<b>E-MAIL ADDRESS:</b>	<b>E-MAIL ADDRESS :</b>

## RETROFIT AND RECONDITIONING OF PORTAL TYPE GAS CUTTING MACHINE PSR-45

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### QUALIFICATION CRITERIA FOR RECONDITIONING OF FLAME CUTTING MACHINE – PSR45

SL NO	PRE-QUALIFICATION	Bidders Offer
A.1.	<b>PRE-QUALIFICATION REQUIRMENTS</b> All the following conditions are to be satisfied by the bidder. Documentary proof is to be enclosed with techno-commercial bid satisfying all these conditions. In case the bidder fails to enclose the same, the offer will be liable for rejection.	
1.	The party must be a reputed Manufacturer / Reconditioner of gas cutting Machines, Medium / Heavy Machines with at least 7 Years of experience in this field (by 31.12.2011). The experience reference shall be for a period preceding immediately to the date given above. Party must submit at least one satisfactory performance certificate issued by customer during the above period. Copies of purchase orders/work orders and corresponding completion certificates should be submitted for verification. The dates of the P.O / certificates should be with in this period only. Offers with out these documents are liable for rejection. List of the customers along with respective contracting officers addresses (including Phone no. / E-Mail ID) for whom machines were manufactured / rebuilt should be enclosed with the offer.	
2.	The annual turnover during the last three Years ending March 31 <sup>st</sup> 2011 should be at least Rs 100 Lakhs (CA certified copy of balance sheet / P&L statements to be enclosed).	
3.	Latest Bankers' solvency (not later than six months from the date tender notice) for an amount of Rs 75 Lakhs from any Nationalized bank.	
4.	Experience of having successfully completed similar works during the last 7 Years (by 31.12.2011) should be either of the following.  Three similar completed works costing not less than the amount each equal to 40% of the estimated cost of the tender.  <b>or</b>  Two similar completed works costing not less than the amount each equal to 50% of the estimated cost of the tender.  <b>or</b>  One similar completed work costing not less than the amount each equal to 80% of the estimated cost of the tender.	

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### QUALIFICATION CRITERIA FOR RETROFIT & RECONDITIONING OF GAS CUTTING MACHINE

<b>A.2</b>	<b><u>Definition of similar works</u></b> Manufacture / reconditioning of gas cutting Machines, medium / Higher capacity hydraulic /conventional machines of the following types 1. Medium / Higher capacity cutting Machines. 2. General purpose Hydraulic / Conventional machines like HMC / VMC / H.Borer / Vertical Borer etc.	
<b>A.3</b>	BHPV reserves the right to verify the information provided by vendor (including visit by a team of BHPV Officials to the Customer Works of the Vendor). In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	

## RETROFIT AND RECONDITIONING OF PORTAL TYPE GAS CUTTING MACHINE PSR-45

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### General:

M/s. BHPV is having one number of Flame cutting machine which need to be completely retrofitted and reconditioned with the scope mentioned below.

### Details of existing Flame cutting machine:

S. NO.	MAKE/MODEL	BRIEF SPECS	YEAR OF INSTALLATION
1.	Portal type gas cutting Machine Model: PSR 45 Supplied by M/s. Kjellberg West Germany	Max Cutting Length: 16Mtrs Max thickness of Plates: 100mm	1969

### SPECIFICATIONS OF EXISTING FLAME CUTTING MACHINE

S. NO.	PARTICULARS	SPECIFICATION / DESCRIPTION
1.1	Power supply	415V AC, +-10% 3 Phase, 50Hz
1.2	Max Cutting Length	16 Mtrs
1.3	Max thickness of Plates	100 mm
1.4	Min thickness of plates	10 mm
1.4	Max width of Plates	3 Mtrs
1.5	Cutting speed(20mm thick)	300mm/min
1.6	No of torches(3 sets) (2 Nos. - Length wise & 1 No. - Width wise)	<u>Total 3 Sets</u> i. Bevel – 6 Nos ii. Straight cutting: 3 Nos.
1.7	Type of cutting	Bevel & Straight

TABLE FOR CUTTING THICKNESS OF PLATES

SNO	PLATE THICKNESS	SPEED		PRESSURE CUTTING OXYGEN Kp/Cm <sup>2</sup>	PRESSURE HEATING OXYGEN Kp/Cm <sup>2</sup>	GAS PRESSURE Kp/Cm <sup>2</sup>
		CONTOUR CUT (mm/min)	SEPARATING CUT (mm/min)			
1.8	4-6	680	760	3.5	2-3	0.3
1.9	6-8	650	720	4		
1.10	8-10	570	670	4.5		
1.11	10-15	500	600	5	3	0.3
1.12	15-20	450	530	5.5		
1.13	20-25	400	500	6		
1.14	25-30	350	450	6	3	0.3
1.15	30-40	320	400	6		
1.16	40-50	300	380	6		
1.17	50-75	250	340	6.5	4-5	0.3
1.18	75-100	220	280	7.5		
1.19	100-125	160	220	7.5		

## **TECHNICAL DESCRIPTION OF EXISTING MACHINE:**

This machine is procured from M/s. Kjellberg, West Germany and installed in the Year 1969. At present the machine is working but with frequent breakdowns. This machine is a portal type gas cutting with 3 torches.

The cutting speed, gas and oxygen pressure and selection of correct cutting and heating nozzles is as per the operating table supplied by vendor along with the Machine. Pressure regulators with their gauges are arranged at the control panel to regulate the oxygen and gas pressure. The flame shall be adjusted in the normal way and in case of bevel cutting a strong heating flame is provided. For executing transverse cuts with the main carriage, the support of the motorized transverse carriage must be swiveled by 90°. The motorized transverse carriage can be moved by hand wheel or by means of coupling lever. After engaging the clutch and after preheating of the work piece, the cutting process can be started. The castor wheel runs on the work piece.

At present the machine is in working condition. The machine has to be reconditioned and up graded to CNC system.

## SCOPE OF WORK FOR RETROFIT & RECONDITIONING:

S. NO.	PARTICULARS	SPECIFICATION / DESCRIPTION	BIDDER'S OFFER WITH CONFIRMATION
2.0	<b>The following items have to be supplied new and to be commissioned.</b>		
2.1	CNC System	Suitable CNC system and suitable software has to designed and installed in the Machine.	
2.2	DC Motors	Replacement of existing DC motors with AC Servo Motors.	
2.3	Predefined shapes	Sufficient number of pre-defined shapes shall be supplied.	
2.4	Oil seals	To replace all oil seals with new ones.	
2.5	Pressure gauges	All pressure gauges are to be replaced by new ones.	
2.6	Electrical Control Panel	New Control Panel shall be provided with all the controls for torches, cutting speeds, Digital meters for Speed, voltage, current etc.	
2.7	Wiring	Complete wiring has to be changed with new wiring	
2.8	Limit switches	All limit switches have to be replaces with new ones.	
2.9	Machine lamps	Proper lighting are to be provided with Industrial Machine lamps (minimum 2 Nos).	
2.10	Emergency stop	Emergency stop button shall be provided on the control panel.	
2.11	Lubrication	To provide centralized lubrication system for the entire machine with all points to be lubricated.	
2.12	Oil grooves & piping	To provide oil grooves and necessary piping for the lubrication.	
2.13	Worn out parts	All Mechanical worn out parts are to be replaced with new by vendor	
2.14	Hose pipes	All hose pipes must be replaced with new ones.	
2.15	CNC System	FANUC/ SEIMENS/ HAIDENHAIN.	Vendor to confirm
2.16	Interface cables, connectors, Switch gears	All interface cables, connectors, switch gears have to be replaced with new ones. Make: LAPP / Finolex / BCH / Siemens	Vendor to confirm
2.17	Bearings	Make: SKF/ FAG	Vendor to confirm

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S. NO.	PARTICULARS	SPECIFICATION / DESCRIPTION	BIDDER'S OFFER WITH CONFIRMATION
3.0	<b>The following items are to be reconditioned / repaired.</b>		
3.1	Scraping guide ways	Complete scraping of guide ways, matching slides etc if any.	
3.2	Heads	Rail heads, side heads are to be reconditioned	
3.3	Hydraulic system	Complete hydraulic system has to be reconditioned by checking the condition of hydraulic pumps, hydraulic lines, cylinders etc .	
3.4	Gears & gear boxes	Complete reconditioning of gear and gear boxes. If found beyond repairable condition, to be replaced.	
3.5	Main bearings	To check the condition of the bearings and are to be replaced if required.	
3.6	Rails & Track	The track and rail assembly to be checked and corrected if required.	
3.7	Gear motor, clutch etc	The gear motor, magnetic clutches, contactor plate, periflex clutches to be checked and reconditioned. If found beyond repairable condition, to be replaced with new ones.	
3.8	Cutting speed	The cutting speed to be checked and to be arrived for original speed.	
3.9	Lubrication	After reconditioning, the entire machine has to be lubricated.	
3.10	Clutch lever, torch slide	The clutch levers, connecting link, torch slides, caster wheels, ball rod floating head, locking devices are to be checked and reconditioned.	
3.11	Drive Mechanism	Existing drive mechanism has to be checked for its operation and is to be reconditioned.	
3.12	Friction lining	The friction lining has to be checked for wear and friction rings are to be replaced.	
3.13	Torch movements	At present the movement of torches in up and down position is not working properly. Up & Down movement to be rectified.	
3.14	Impellator	The impellator movement is not proper and is to be rectified.	



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S. NO.	PARTICULARS	SPECIFICATION / DESCRIPTION	BIDDER'S OFFER WITH CONFIRMATION
4.0	<b>Painting of the Machine :</b> The body and all the parts of the machine shall be painted with two coats of reputed brand of Premium enamel Apple Green color paint. Interior of the machine are to be painted with two coats of enamel paint (Color to be specified by BHPV at the time of PO). Wherever oil comes in contact with interior of the body, oil resistant paint to be used. Letters, numerals etc. will have to be painted with a different color as required / as indicated by BHPV at the time of final painting. For electrical panel boxes inside area is to be painted with two coats of white enamel paint. Painting should be carried out according to the standard procedure for painting including cleaning and removing old paint, applying metal primer putty etc. Good finish should be ensured. <b>Overall Machine aesthetic view should be taken care of.</b>		Vendor to confirm.

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S.No.	PARTICULARS / SPECIFICATION / DESCRIPTION	BIDDER'S OFFER (WITH CONFIRMATION & COMPLETE TECHNICAL DETAILS)
5.0	<p>1. Complete dismantling of the machine assemblies into individual parts, degreasing, chemically cleaning, pre-painting of structural parts, joint inspection to finalize the detailed list of</p> <ul style="list-style-type: none"> <li>a. Spares to be bought out</li> <li>b. Spares to be manufactured</li> </ul> <p>The list should be approved by BHPV. Drawings of spares to be manufactured and specifications for bought out items shall be submitted to BHPV by the vendor for approval.</p> <p><b>SPARES :</b> For the above mentioned spare parts (electrical/ mechanical / hydraulic/ electronics) required to be replaced beyond the spares quoted by the vendor along with offer, approved by BHPV after joint inspection, BHPV will supply spares available with them or procuring the spares.</p> <p>2. A separate tender will be floated for these spares (bought out spares and spares to be manufactured). The vendor shall also compulsorily participate in the above tenders quoting for all the spares. The spares will be ordered on the lowest party and the spares will be given to the vendor for assembly into the machine. No extra cost will be paid for the fitment and assembly of these spares.</p> <ul style="list-style-type: none"> <li>a. Spares required to be replaced other than those agreed to during joint inspection will have to be approved by BHPV before such replacement is affected. Cost of such spares shall be absorbed by the Contractor. BHPV will not pay for these items.</li> <li>b. Prior intimation has to be given to BHPV by the contractor for deputing the team for joint inspection at BHPV / contractor works.</li> </ul>	Vendor to confirm

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S.No.	PARTICULARS / SPECIFICATION / DESCRIPTION	BIDDER'S OFFER (WITH CONFIRMATION & COMPLETE TECHNICAL DETAILS)
5.1	Operational spares for 2 Years should be quoted separately.	Vendor to confirm
5.2	A spare parts manual should be provided along with the parts list.	Vendor to confirm
<b>6.0</b>	<b>Prove-out test</b>	
6.1	Complete assembly and Geometrical testing (jointly), job trials etc to be carried out. A test chart performance report has to be made. The tests to be carried out in presence of maintenance and production personnel.	Vendor to confirm
6.2	After successful geometrical and job tests the machine would be handed over to production division for their trial run. After completely satisfying the job performance of the Machines with regards to the accuracies, loading capacity etc. the Production and maintenance personnel would then release the satisfactory performance certificates for the machines. Only on receipt of such certificate, the work would be deemed as completed and the final bill would be processed.	Vendor to confirm
<b>7.0</b>	<b>BHPV's Scope of work:</b>	
7.1	Material handling facilities will be given during retrofitting at BHPV shop.	
7.2	Utilities like air, light, power and gas required for retrofitting and testing/trial runs at BHPV shop.	
7.3	All necessary documents available with BHPV related to Machine will be given to vendor	
<b>8.0</b>	<b>Miscellaneous</b>	
8.1	The supplier should give a point-by-point reply to the specifications	Vendor to specify
8.2	The following documents shall be supplied. 1. Electrical block diagrams – 3 sets 2. Circuit diagrams of all PCBs – 3 sets 3. O&M Manuals (hard copy & Soft Copy) for PLC system – 3 sets 4. Machine data(CNC, setting & Alarm texts) & CNC program(Soft copy) – 3 sets 5. Details of all Mechanical modifications & fittings with drawings – 3 sets 6. Operational / maintenance / spare parts manuals(after incorporating changes in Machine) – 3 sets each	Vendor to confirm

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S.No.	PARTICULARS / SPECIFICATION / DESCRIPTION	BIDDER'S OFFER (WITH CONFIRMATION & COMPLETE TECHNICAL DETAILS)
8.3	The maintenance manual should contain the system description and its working, trouble shooting, circuit diagrams, waveforms, test points etc along with the diagnostic features. Error codes of display, explanation of code and action to be taken.	Vendor to confirm
8.4	The supplier should provide at least 3 days training in operation, programming and interfacing and maintenance at supplier's works/BHPV in each area for production and maintenance personnel.	Vendor to specify
8.5	The supplier should provide 1 Year warranty from the date of acceptance of reconditioning the Machine.	Vendor to specify
8.6	Place of Work: The supplier may execute the complete reconditioning and retro fitment activity at BHPV, Visakhapatnam or at supplier's works. If the machine/parts are to be taken to the supplier's works, the transportation cost (to & fro, insurance, loading & unloading) has to be borne by the supplier.	Vendor to specify
8.7	Name plates, instruction plates shall be replaced with new ones. One plate with machine specifications in full, name & address of reconditioning party, year of reconditioning etc. should be riveted on top of the column surface.	Vendor to specify
8.8	Oiling points with periodicity, type of oil to be used shall be indicated on the machine.	Vendor to specify
8.9	Bar chart showing the time required for the following elements to be given covering the period of delivery quoted a) Dismantling of the machines at BHPV works b) Complete cleaning and joint inspection of components at BHPV works to identify parts for replacement and rework. c) Manufacturing, rework/repairing etc. of the components, completion of scraping work and sub-assemblies d) Complete reconditioning work e) Assembly, re-erection & commissioning of the machine f) Geometrical, positional accuracy testing g) Job trial and prove out	Vendor to confirm
8.10	Any modifications carried out shall not sacrifice original traverses, speed and other parameters of the Machine.	Vendor to specify

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S.No.	PARTICULARS / SPECIFICATION / DESCRIPTION	BIDDER'S OFFER (WITH CONFIRMATION & COMPLETE TECHNICAL DETAILS)
8.11	<b><u>REWORK IN LIEU OF REPLACEMENT :</u></b> Reworks in lieu of replacement on all parts (bushes, box nuts, screw rods etc.) by machining / chrome plating / welding / grinding etc. identified initially and also during joint inspection is in the scope of vendor.	Vendor to confirm
8.12	BHPV reserves the right to inspect the progress as well as workmanship at any stage of the work. Decision of BHPV Representative shall be final in the matter of inspection at any stage. Contractor shall extend necessary co-operation to enable such inspection.	Vendor to confirm
8.13	All discarded / replaced parts shall be returned to BHPV.	Vendor to confirm
8.14	Any other work (mechanical and electrical) not mentioned in this scope of work to keep the machine in working condition with all features and accuracies are in the scope of the contractor.	Vendor to specify
8.15	The contractor is required to study the machine, the scope of supply and certify the completeness of scope in order to execute the work. In case of any discrepancies in the scope of work, the contractor is required to highlight the same to BHPV before submission of the offer.	Vendor to specify
8.16	Lodging & Boarding facilities for the contractor personnel are in Contractor's scope (during dismantling period, re-erection & re-commissioning period and for troubleshooting during performance guarantee period). BHPV is not responsible for this.	Vendor to confirm
8.17	<b>Interpretation:</b> Any dispute or difference of opinion in respect of the interpretation, effect or application of this particular condition of the Contract or of the amount recoverable hereunder from the vendor shall be decided by the Contractee and the decision shall be final and conclusive.	Vendor to confirm
8.18	<b>Subletting:</b> The vendor shall not sublet or assign this work or any part thereof without the written permission of BHPV. In the event of the vendor subletting or assigning this work or any part thereof without such permission, BHPV shall be entitled to cancel the contract and execute the contract elsewhere at the risk and account of the vendor and the vendor shall be liable for any loss or damage which BHPV may sustain in consequence of or arising out of such contract elsewhere .	Vendor to confirm

**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.
- 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
- 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)

<b>BHPV Tender No: &amp; Date:</b>	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 and Freight (To be Included in Vendor's Scope)	
Insurance ( <b>Please confirm whether included or not</b> )	
Validity of offer (we require a minimum period of 120 days from the date of Tender Opening – <b>please Specify</b> )	
Sales Tax ( <b>please Specify</b> )	
Excise Duty ( <b>please Specify</b> )	
Delivery period from the date of Purchase Order ( <b>please Specify</b> ). 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 ( <b>Offers from vendors not accepting the Risk Purchase terms will be rejected</b> )	Yes / No
Payment terms (As per Clause No. 5.7.1)	
Contract Execution Bank Guarantee (CEBG) as per Clause 5.10 ( <b>Offers from vendors not accepting to submit CEBG will be rejected</b> )	Yes / No
Performance Bank Guarantee (PBG) as per Clause 5.11 ( <b>Offers from vendors not accepting to submit PBG will be rejected</b> )	Yes / No
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). ( <b>Offers from vendors not accepting to the guarantee period will be rejected</b> )	Yes / No
Inspection ( <b>please Specify</b> )	
Erection & Commissioning/ Installation/ Training ( <b>Please confirm whether charges are included in the total cost or not</b> )	
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)

<b>BHPV Tender No: &amp; Date:</b>	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 and Freight	
Insurance ( <b>Please confirm whether included or not</b> )	
Validity of offer (we require a minimum period of 120 days from the date of Tender Opening – <b>please Specify</b> )	
Currency in which quoted ( <b>please Specify</b> )	
Port of loading ( <b>please Specify</b> )	
Country of Origin ( <b>please Specify</b> )	
Sales Tax ( <b>please Specify</b> )	
Excise Tax ( <b>please Specify</b> )	
Delivery period from the date of Letter of Intent ( <b>please Specify</b> )	
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 ( <b>Offers from vendors not accepting the Risk Purchase terms will be rejected</b> )	Yes / No
Payment terms (As per Clause No. 5.7.2)	
Agency commission (refer clause 5.14)	Acceptable / Not acceptable
Contract Execution Bank Guarantee (CEPG) as per Clause 5.10 ( <b>Offers from vendors not accepting to submit CEBG will be rejected</b> )	Yes / No
Performance Bank Guarantee (PBG) as per Clause 5.11 ( <b>Offers from vendors not accepting to submit PBG will be rejected</b> )	Yes / No
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). ( <b>Offers from vendors not accepting to the requested guarantee period will be rejected</b> )	Yes / No
Inspection ( <b>please Specify</b> )	
Erection & Commissioning/ Installation/ Training ( <b>Please confirm whether charges are included in the total cost or not</b> )	
Approximate Net Weight of the total Consignment	
Approximate Gross Weight of the total Consignment	

**Signature & Office Seal of the bidder**