

BHARAT HEAVY PLATE & VESSELS LIMITED.,
(A Subsidiary Bharat Heavy Electricals Limited)
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NOTICE INVITING TENDER(NIT)

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

**SUB: TUBE HANDLING SYSTEM FOR
RTR STATION (24 MTRS)**

Our Ref: **MM/2/10/3296/CAP/W-244/5251**

DATE: 20.12.2012

Sealed quotations in duplicate are invited from suppliers on **or before 17.01.2013** **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.	TUBE HANDLING SYSTEM FOR RTR STATION (24 MTRS)	1 Nos.
	Encl: 1. Qualifying Criteria PART A 4 pages 2. Technical Specifications PART B 10 Pages 3. Annexure – 1 1 pages 4. General Terms/ commercial terms and conditions (INCLUDING CHECK LIST) 10 pages	

For BHARAT HEAVY PLATE & VESSELS LIMITED,

For Dy. GENERAL MANAGER (MM)

SECTION – I : QUALIFYING CRITERIA

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

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
1	Only those vendors (OEMs), who have supplied and commissioned at least ONE Handling system for long tubes using rollers/ rolled section the past ten years (from the date of opening of Tender) and such machine is presently working satisfactorily for more than one year after commissioning (from the date of opening of Tender) should quote.	
	The vendor should submit following information where similar machine has been supplied for qualification of their offer.	
1.1	Name and postal address of the customer or company where similar machine is installed.	
1.2	Name and designation of the contact person of the customer.	
1.3	Phone, FAX no and email address of the contact person of the customer.	
1.4	Month and Year of commissioning of the machine.	
1.5	Application for which the machine is supplied	
1.6	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 .	
1.7	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.	
2.0	DELIVERY - The bidder shall quote the best possible delivery. However the delivery period shall not exceed 4 months from the date of Purchase Order. A grace period of 2 months in addition is provided. However additional grace period 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. The delivery period is reckoned from the date of Purchase order to date of dispatch from the vendor works. 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	
3.0	The BIDDER / VENDOR shall have a minimum of FIVE Years of Continuous Experience in the Design, Manufacture & Supply of Material Handling Systems for Engineering / Fabrication Industries. Indicate the actual experience.	

SECTION – I I

The BIDDER / VENDOR is requested to provide the following information:

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
4.0	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where Handling system for long tubes/rolled section have been supplied in the past.	
5.0	Details of Handling system for long tubes/rolled section supplied to other BHEL units, if any. (Year of commissioning, Length, section size)	
6.0	Details on SERVICE-AFTER-SALES Set-Up in India including the Addresses of Agents / Service Centers in India. [Details on the number of trained personnel with field of experience to handle the service needs of BHPV in time]	
7.0	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

SECTION – III

The BIDDER to note:

S. No.	PARTICULARS	VENDOR'S RESPONSE
8.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS. 1. Technical Offer [with PART A & PART B] & commercial offer 2. Price Bid.	
9.0	The Offer shall contain a comparative statement of Technical Specifications given by BHPV and the Offer Details submitted by the Bidder, against each clause. A mere 'YES' or 'NO' or similar words in the technical comparative statement (without any supporting technical write-ups, photos and datasheets) may lead to disqualification of the Technical Offer.	
10.0	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.	
11.0	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

The performance certificate should be produced **on Customer’s Letter Head.**

PERFORMANCE CERTIFICATE

1. Supplier of the machine :
2. Make & Model of the M/C :
3. Month & Year of Commissioning :
4. Application for which M/C is used :
5. a) Length :
b) Tube diameter/Section :
c) Application :
6. Performance of the Machine : Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
7. After sales service : Satisfactory / Not Satisfactory
(Strike off whichever is not applicable)
8. Any Other remarks :

Date:

Signature & Seal of the Authority
Issuing the Performance Certificate

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

TECHNICAL SPECIFICATIONS for TUBE HANDLING SYSTEM for R T R STATION [24 M]

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER'S OFFER [with Complete Technical Details]
1.0	AREA OF APPLICATION	<ol style="list-style-type: none"> 1. The fully MECHANISED Tube Handling System is meant for the transportation of the Butt welded 24 M long tubes from the rollers stands of Straight tube butt welding machine to the (RTR) radiographic testing station and then to Out-Feed the tubes to Storage dumps. 2. The butt welded joints in the long tubes will be tested by radioscopy in the RTR Station (Real Time Radioscopy Station) and hence the system shall have the facility to hold the tube and rotate in either direction, while undergoing radiographic testing & evaluation 	
2.0	SYSTEM CONFIGURATION	<p>The Tube Handling System shall consist of</p> <p><u>IN-FEED Conveyor:</u></p> <ol style="list-style-type: none"> 1. Tube transfer / kick off system (pneumatic) to transport the welded tube to the buffer stand. 2. Buffer stand to store the tubes. 3. Tube transfer / kick off system (pneumatic) to transfer the welded tube from the buffer stand to the in-feed roller stand. 4. In-feed roller stands with mechanism (pinch roller) to transport the welded pipe to the RTR room for radioscopy test. <p><u>Tube rotating device</u> (variable speed) to hold tube and rotate.</p> <p><u>Idler roller stands</u> inside the RTR station to support the tubes during rotation for weldment examination.</p> <p><u>Defective Weld Joint</u> Puncture making using abrasive wheel.</p> <p><u>OUT-FEED conveyor:</u></p> <ol style="list-style-type: none"> 1. Independent out-feed roller stand in alignment with in feed and out feed rollers with mechanism (pinch roller) to transport the weld tested tube from the RTR room. 2. Kick-off system (pneumatic) to transfer the tubes to the dump. 3. Tube dump for receiving the tubes. <p>[Refer to the SCHEMATIC SKECTH given in ANNEXURE –1 for lay-out guidance]</p>	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER's OFFER [with Complete Technical Details]
3.0	SEQUENCE OF OPERATION	<ol style="list-style-type: none"> 1. Transferring the welded tubes (24M) from the roller stand of Straight Tube Butt Welding Station to the buffer stands by kick off system 2. Transfer of the tubes from the buffer stand to the In-Feed Roller Stand by kick off system 3. Transportation of the welded tubes to the RTR Station by In-Feed roller with drive mechanism (pinch roller) 4. Positioning the welded spot at the RTR inspection point and hold the tube in rotary chuck then rotating gently by 360 degree on either direction for weld joint examination. 5. Repeat the above two points for the next and subsequent weld joints. 6. Built up tubes are transported out from RTR room by tube out feed roller mechanism (pinch roller) and transferred to the storage dump by Kick Off system (Pneumatic). 7. The Rejected (defective) tubes are punctured by using abrasive cutting wheel. Then transported out by out feed system and transferred to the tube storage dump. 	
4.0	JOB DETAILS	<ol style="list-style-type: none"> a. Tube OD Range: 31.8 mm to 88.9 mm [Normal Sizes: 31.8, 38.1, 44.5, 47.65, 51, 54, 57, 60.3, 63.5, 76.1 and 88.9 mm Outer Diameter] b. Tube Wall Thickness: 3 mm to 15 mm c. Tube Length: 12 Mtrs. to 24 Mtrs. [One batch will have tubes of same length only] d. Tube Weight: 5 kg. To 25 kg. /mtr. Length e. Tube Rotation Speed: 1 to 10 RPM [Steplessly variable speed] f. The number of welds (coming in a tube of length 24 Mtrs.) is 3 to 4 – i.e., 3 to 4 welds are to be tested in one handling cycle. g. The minimum distance at which the weld joint is located from the tube free end is 200 mm. h. The projection of material from the tube surface, due to the reinforcement at the weld joint, is 3 mm (maximum) 	
5.0	TUBE HANDLING RATE	<ol style="list-style-type: none"> 1. The Handling System has to be designed to handle 200 Tubes [each tube of length 24M, ϕ 63.5 mm x 10 mm – wall thickness] in a shift of 8 hours. 2. 200 Tubes (for one shift load) may have to be handled in batches and each batch may have upto 60 Tubes, at the maximum. 3. When the tube length is less than 24 mtrs, (normally 12 to 20 mtrs.) the total number of tubes (to be handled per shift) may exceed 200, but not more than 250. 	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER'S OFFER [with Complete Technical Details]
6.0	OPERATING PARAMETERS	a. Rate of linear travel of tube at the In-Feed Side: 15 to 18 meters / minute. b. Speed of Tube Rotation (in either direction) for Testing : 1 to 10 RPM c. Rate of linear travel of tube at the Out-Feed Side: 75 to 80 meters / minute. d. Creep Speed at both In-Feed and Out-Feed Sides: 1 meter/minute (for positioning the weld joint in RTR Station)	
7.0	ELEMENTS of TUBE HANDLING SYSTEM		
7.1	In-Feed : Tube Storage Rack / Buffer Stand	1. Shall be of Fabricated Steel (extruded) Structure and of enough rigidity to withstand rough handling of tube bundles (like impact loading) 2. Tube OD Range: 31.8 mm to 76.1 mm 3. Tube Wall Thickness: 3 mm to 15 mm 4. Tube Length: 12 Mtrs. to 24 Mtrs. 5. Tube Weight: 5 kg. to 25 kg./mtr. Length 6. The stand shall hold 40 tubes of ϕ 63.5 mm. 7. The entire stand shall be leveled to the full length and fixed n the floor with heavy duty expansion type anchor bolts. 8. The loading surfaces of the stands shall be fixed with hard nylon strips to prevent noise generated by tube falling.	
7.2	Kick-Off Unit at In-Feed & Out-Feed Sides	1. The in-feed Kick off system shall be independent for transferring welded tubes from STBW rollers stand to buffer stand and from buffer stand to in-feed roller stand. 2. Only one tube shall be kicked-off at a time 3. The Kick off shall be operated by a set of Pneumatic system, spaced at equal distance. 4. The Kick off system on the out feed side shall have suitable Integrated mechanism to transfer the tubes to the tube dump. 5. BIDDER has to furnish complete details with arrangement, capacity and required air pressure rating in the Technical Offer.	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER'S OFFER [with Complete Technical Details]
7.3	Roller Stand and Pinch Roller Drive for In-Feed & Out-Feed Sides	<ol style="list-style-type: none"> 1. The Roller Stand for in-feed and out feed shall be fabricated out of heavy-duty steel structural. 2. Rollers shall be metallic core and polyurethane casing and have smoothed curved 'V' Groove on OD [Outer Diameter] and of suitable surface finish and hardness sufficient not to damage the tube surfaces. 3. The Rollers shall be of two halves design (vertical) heavy-duty class for easy dismantling and assembling. The polyurethane casing shall be of easily replaceable on damage. The bearing shall be of double sealed type 4. Another set of rollers for rotation of tube during weld check shall have common shaft connection levered suitably by pneumatic system to obtain the up and down movement in order to engage the rollers only during tube rotation. Otherwise these roller to be idle. 5. The Pinch Roller mechanism shall be driven by electrical motor and variable speed drive system. 6. The Roller Stand shall be leveled to the full length and fixed on the floor with heavy duty expansion type foundation bolts. 7. The design shall be suitable for the system Operating Parameters specified under the Clause Sl. No. 6.0 	
7.4	Idler Roller Stand in the RTR Station	<ol style="list-style-type: none"> a. The tube entry and exit from the RTR room is through the holes provided in the RTR Station concrete walls. b. Idler Roller Stand for tube transportation at the RTR room shall be of steel fabricated structure suitably designed and installed with heavy duty expansion type anchor bolts in the RTR room for a length of 5 meters – The idler rollers stand has to support and transport the tube inside the RTR room. c. This Idler Roller Stand shall be aligned in line with the In-Feed and Out-Feed Roller Stands. d. The roller configuration shall be same as that for the in feed and out feed rollers. 	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER's OFFER [with Complete Technical Details]
7.5	Tube Rotation and Clamping System	<ol style="list-style-type: none"> 1. The rotation of the tube for RTR inspection shall be between 1 to 10 RPM. 2. During the rotation, the tube shall be automatically clamped by a rotary chuck driven by the AC Geared Motor. 3. The rotary motion for the chuck shall be provided through an AC Geared Motor with Variable Frequency Drive equipped suitably to select the operating RPM steplessly variable in the above mentioned speed range. 4. Tube Clamping Chuck shall be of pneumatic operated and centre bore shall be min 150mm dia in order to permit free movement of the tube through the chuck adjustable in both the horizontal and vertical directions, so that the tube does not hit the chuck, while the PinchRoller moves the tube in the linear direction. 5. Interlock to be provided to permit rotation of the chuck only after the tube is clamped. 6. BIDDER shall furnish the complete technical details for clamping and rotation, in the TECHNICAL OFFER. 	
7.6	Defective Tube Marking Unit	<ol style="list-style-type: none"> 1. During weld quality inspection, weld butt joints coming in the tube are tested for acceptance or rejection. The rejected tubes are to be identified by a permanent marking on the weld joints, before the tube is sent to the OUT-FEED side tube collection dump. 2. The intended system shall have a facility for making a puncture by using abrasive cutting wheel to identify the defective weld joints. Also should have paint marking system 3. The above facility shall be located in the OUT-FEED Line and preferably at the exist point from the RTR Station Cabin. 4. The BIDDER shall furnish technical details for the above marking system, with the TECHNICAL OFFER. 	
7.7	Size of Tube Dump Stands	<ol style="list-style-type: none"> A. Tube Dumping Stand for Accepted Tubes: (minimum): - 1 meter (width) x 1 meter (height) x 26 meters (length) B. Tube Dumping Stand for Rejected Tubes: (minimum): - 0.5 meter (width) x 1 meter (height) x 26 meters (length) C. Necessary slope shall be provided with nylon strip beadings to reduce noise during tubes falling. 	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER'S OFFER [with Complete Technical Details]
7.8	Tube Dumping Stands	<ol style="list-style-type: none"> 1. Separate dumping stand is to be provided for collecting the Accepted and Rejected Tubes. 2. The Tube Dumping Stand shall be suitably designed, so that the removal of tubes in a bundle is made possible and easy, by using slings from an EOT Crane [i.e., enough clearance is available at the bottom for bundling the loose tubes into one single lot]. 3. Both the dumping stands shall be erected leveled and grouted using expansion type foundation bolts. 	
8.0	ELECTRICAL FEATURES & ELEMENTS for MACHINE CONSTRUCTION		
8.1	Electrical Input Power Supply	<ol style="list-style-type: none"> a. The input electrical power supply shall be 415 with of $\pm 10\%$ V, $50 \pm 3\%$ Hz, 3 Phase AC supply through a 3 Wire System b. BHPV will provide this supply at one point only near the equipment and the supplier has to take care of all other electrical distribution network required for the Tube Handling System. 	
8.2	Control Voltage	Control Circuit Voltage shall not exceed 24 V.	
8.3	Electric Motors	All Electric Motors shall be of any of the following makes: Crompton, SIEMENS / ABB / Bharat Bijlee or MAKES acceptable to BHPV	
8.4	Power Requirement	Bidder has to indicate the total tentative power requirement (including that required for all the sub-systems) in kVA with the offer.	
8.5	Drive Motor and VFD	<ol style="list-style-type: none"> 1. AC Motor (coupled with VFD) makes – ABB / Indramat / Siemens / danfoss / L&T are only to be used for tube rotation by roller drive mechanism. 2. Suitable feedback system has to be ensured between the AC Motor & VFD Control Drives. 3. All the PLC Relay out puts (with LED indication) shall be with and through relay board and control fuses. 4. The normal operating modes such as Auto / Semi-Auto / Manual, Start / Stop are to be ensured. 5. The online monitoring of each function and consequent alarm message is to be displayed. 6. The Trouble-Shooting Chart and Mode of editing of Programs for VFD to be provided. 7. The Sequence of Operation and Function Statement in Hard Copy (Literature) shall be furnished. 	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER'S OFFER [with Complete Technical Details]
8.6	Field Elements	<ol style="list-style-type: none"> 1. All the field sensors, proximity switches, limit switches, pressure switches, should be suitable for heavy duty applications. 2. All Electromagnetic Clutches shall only be of 24 V DC control. 	
8.7	Electrical Wiring	<ol style="list-style-type: none"> a. All electrical motors, limit switches etc, on the machine shall be wired using PVC sheathed copper cable running in conduits and converging to common terminal block b. External wiring from / to control panel, control desk, external motors, etc. shall be by means of screened multi-core cables 	
8.8	Control Panel	<ol style="list-style-type: none"> 1. The Main Electrical Control Cabinet shall be a box type and self-standing with a locking arrangement. 2. Two separate Operator Control Panels (pendant / remote box type) are to be provided with locking arrangement - one for the IN-FEED Unit and the second for the OUT-FEED Unit. 3. These pendant or remote control shall have facility for display, indication lamps and push buttons to operate the system in all the modes – viz., ON/OFF, Emergency Off, Forward & Reverse, Creep Feed, and Speed Variation for tube Travel. 4. Separate Operator Control Unit to be located inside the RTR Station, suitable for the following operations: <ol style="list-style-type: none"> a. ON/OFF an Emergency Stop b. Tube Feed (IN & OUT) from IN-FEED Side with linear speed variation c. Tube Clamping and Rotation in either direction and speed variation in rotary direction d. Inching operation in Tube Creep Feed mode for accurate positioning of the Weld Joint for inspection inside the RTR Station. e. Tube Feed (IN & OUT) from OUT-FEED Side with linear speed variation f. Defective Tube Marking – making a puncture by using abrasive cutting wheel in the weld joint location 	
9.0	MECHANICAL FEATURES & ELEMENTS for MACHINE CONSTRUCTION		
9.1	Roller Stands	<ol style="list-style-type: none"> 1. All rollers in the Roller Stands shall be of heavy-duty class with 'V' roller groove, bearing mounted. 2. The roller assembly shall be of the nature of easily removable from the roller stand. 3. The roller pitch is around 500MM. 	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

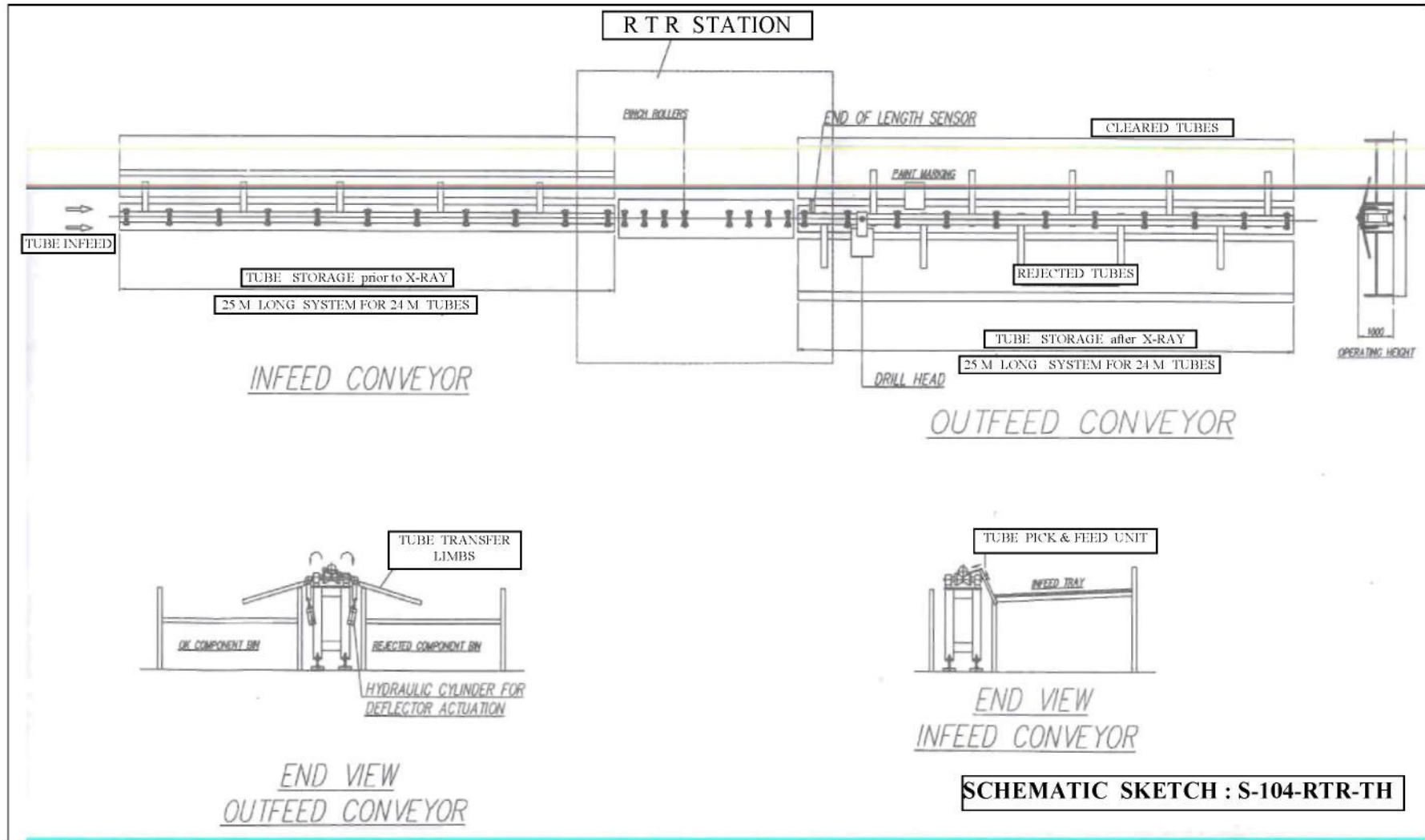
S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER'S OFFER [with Complete Technical Details]
9.2	Fabrication	All structural shall be made out of heavy duty, rolled sections /extrusion of suitable size.	
9.3	Tube Working Height	All the Roller Stands in the Tube Handling System shall be at a height of 1.20 meters from the floor.	
9.4	General Points	<ol style="list-style-type: none"> 1. All Bearings shall be of standard make like FAG, SKF, NTN and NBC only. 2. All components and fasteners are to be in metric dimensions. 3. The machine configuration and element/ system arrangement should be such that they have easy accessibility, higher rigidity, self-aligning arrangement of machine components 4. The OFFERED Tube Handling System with all the Sub-Systems are to be designed for working in continuous duty. 	
10.0	MACHINE WORKING ENVIRONMENT		
10.1	Ambient Atmospheric Conditions	<ol style="list-style-type: none"> a. The offered Tube Handling System shall be suitable for operation in an ambient temperature of 25 to 50 °C and with a Relative Humidity of 90% (both higher values do not occur simultaneously). b. The ENTIRE EQUIPMENT shall be TROPICALISED in Design and CONSTRUCTION. 	
10.2	Safety Systems	<ol style="list-style-type: none"> 1. Machine shall have Safety Guards / Sliding Doors and Mechanical and Electrical safety interlocks shall be ensured for personnel and equipment protection. 2. BIDDER to submit COMPLETE details on this arrangement with the Technical Offer. 	
11.0	PAINTING	<ol style="list-style-type: none"> 1. The machine parts are to be heat-treated (wherever necessary) after fabrication (including castings and forgings) and painted with One coat of Primer and Two coats of synthetic Enamel Paint (Colour – Apple Green – IS281) 2. Control Panel to be painted with Two coats of IS 281 Synthetic Enamel Apple Green Color Paint 	
12.0	MACHINE SPARES		
12.1	List of Spares	The Supplier shall LIST DOWN with the OFFER, the complete set of replaceable parts / items / components coming in the Tube Handling System and shall QUOTE the Unit Price for each item.	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER'S OFFER [with Complete Technical Details]
12.2	Compulsory spares	Bidder has to COMPULSORILY quote for the following items with the OFFER : a. Mechanical wearing components due to linear movement & rotation. [Each 4 Nos.] b. Pneumatic spares like valves & repair kit [Each 4 Nos.]. c. Electrical & Electronic Items:- PCB & PLC I/O Cards, Digital to Analogue Card, Field Sensors (such as Encoders, Optical Sensors, Proximity Switch, Limit Switch), Display Unit, etc. [Each 4 Nos.]	
13.0	MACHINE INSPECTION & ACCEPTANCE		
13.1	Machine Performance Testing and Acceptance	1. The Tube Handling System shall be tested for its performance prove-out (after trial assembly) as per BHPV Specifications, at the Supplier's Works prior to despatch. 2. Tube Handling trials have to be done with tube sizes mutually agreed after order. The test tubes to be arranged by the vendor.	
14.0	MACHINE ERECTION & COMMISSIONING		
14.1	Mechanical Erection	SUPPLIER'S SERVICE ENGINEERS and Working Personnel shall do erection and Commissioning of the Equipment. Necessary crane handling facility will be provided by BHPV free of cost. Erection equipments and consumables are in the scope of vendor. Any civil works required is in the scope of BHPV.	
14.2	Machine Performance Prove-Out	After the successful commissioning of the machine and sub-systems, the COMMISSIONING ENGINEER of the Supplier have to establish the Performance Prove –Out for the System's Capability and the Handling Rate by the Machine, as given under the Clause Sl. No. 3.0, 5.0, 6.0 and 7.0	
15.0	MACHINE DOCUMENTATION		
15.1	O & M Manuals	Three Copies of the O & M [Operation and Maintenance] Manual in English with one copy in CD form (SOFT COPY), for each Tube Handling System to be provided by the vendor.	

TUBE HANDLING SYSTEM FOR RTR (24M) TECHNICAL SPECIFICATION – PART B

S. No.	PARTICULARS	BHPV SPECIFICATIONS	BIDDER's OFFER [with Complete Technical Details]
15.2	Documents and Technical Details	The following documents and details shall form part of the Operation & Maintenance Manual <ol style="list-style-type: none"> 1. General Arrangement Drawing of the Tube Handling System in total. 2. Sub-Assembly Drawings for sub-systems for maintenance purpose. 3. Electrical Wiring Drawings for Power and Control Circuits. 4. PCB Details and Circuit Drawings 5. PLC Ladder Diagrams (Hard & Soft Copy) with Flash Memory Card. 6. Complete PCB Schematics indicating check points (Test Points) for Electronic Controls 7. Specifications of All Bought-Out-Items 8. Warranty / Guarantee Card for all Bought-Out-Items 9. Trouble Shooting Chart for Main and all Sub-Systems 10. Total weight of the Tube Handling System 	
16.0	TRAINING	The Supplier's Service Engineer shall train of BHPV Staff in the Operation, Trouble Shooting and Maintenance of the Tube Handling System at BHPV Works for a min of 15 days after the SUCCESSFUL COMMISSIONING of the Equipment, at BHPV Works.	
17.0	TECHNICAL OFFER	The Technical Offer shall contain the following: <ol style="list-style-type: none"> a. Complete Scope of Supply, including Main Handling Equipment, Control Station, All Accessories and Sub-Systems, etc. b. List of Spares c. Complete description of all systems/sub systems forming part of the Tube Handling System d. A schematic diagram showing the layout of the machine & associated systems with dimensions e. The operating sequence of the machine with broad outline of various operations involved 	
18.0	PERFORMANCE GUARANTEE	The Performance of the Total Equipment and/or the Components / Sub-Assemblies / Bought-Out-Items shall be guaranteed for a minimum period of 12 months from the date of performance acceptance at BHPV Works or 18 months from the date of supply whichever is earlier.	
19.0	GENERAL POINT	The actual distance between centre line of in feed to buffer stand and in feed to RTR, RTR Out feed and Accepted/Rejection dump will be provided at the time of drawing approval. For Quotation purpose this may be taken as 3.0M each	



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