

BNPM/NCB/COMPRESSOR/523/2019-20	BANK NOTE PAPER MILL PRIVATE LIMITED	
	CORRIGENDUM NO. 1	

CORRIGENDUM No. 1, DATED 14.10.2019

FOR

BNPM/NCB/COMPRESSOR/523/2019-20 Dated 13.09.2019

TENDER FOR DESIGN, MANUFACTURE, SUPPLY, UNLOADING, ERECTION, TESTING, COMMISSIONING, PERFORMANCE TESTING OF OIL LUBRICATED SCREW COMPRESSOR ALONG WITH COMPATIBLE HEAT RECOVERY SYSTEM AT BNPM PLANT, MYSURU

**Client: BANK NOTE PAPER MILL INDIA PRIVATE LIMITED, MYSURU,
KARNATAKA**



**Administrative Office Building,
Entry Gate-1, Paper Mill Compound,
Note Mudran Nagar,
Mysuru-570003**



ISSUE
R0

Scope of this Corrigendum: I. Revision:

Sr. No.	Reference Clause of the Tender	Previous Provision in Tender	Current Provision to be considered
MECHANICAL			
1.	Section VII- Technical Specification & Scope of Work: Clause I. Oil Lubricated Screw Air Compressor , Technical Data sheet Clause :Sr No 1 , Air Compressor Type: Pg No 38	Skid Mounted, Oil lubricated Screw air compressor, Air cooled single stage with a min Capacity of 1800 m3/min@ 7.5 bar working pressure and maximum working pressure shall be 8.5 bar.	The clause shall be read as "Air Compressor Type: Skid Mounted, Oil lubricated Screw air compressor, Air cooled single stage with a min Capacity of 1800 m3/min +/- 5% acceptable at maximum working pressure of 8.5 bar"
2.	Section VII- Technical Specification & Scope of Work: Clause I. Oil Lubricated Screw Air Compressor , Technical Data sheet Clause : Sr No 4 , Warranty Pg No 39-40	2. Guaranteed Life of air end of the compressor = To be submitted by the bidder (At least 35000 Running hrs) 4. Guaranteed life of Oil Filter = To be submitted by the bidder (at least 6000 running hrs)	The clause shall be read as "Guaranteed life of air end of the compressor = To be submitted by bidder (at least 30000 running hours)". Bidders shall quote the per hour running cost of the oil filter & indicate the guaranteed life of the oil filter and the price of oil filter. Overall Running cost of the oil filter computed for 6000 hours shall be considered for the bid evaluation. Technical Compliance Statement & Price Bid has been revised accordingly & enclosed herewith this Corrigendum.
3.	Section VI- List of Requirement , Clause : 2: Required Delivery Schedule Pg No 36	Successful bidder shall complete entire activity of Design, Supply, Erection, Testing, Commissioning, Performance Test works within 20 weeks from the date of issue of LOI.	The clause shall be read as "Successful bidder shall complete entire activity of Design, Supply, Erection, Testing, Commissioning, Performance Test works within 25 weeks from the date of issue of LOI."

ii. Clarification:

ISSUE
R0



Sr. No.	Reference Clause of the Tender	Description	Clarification sought by prospective Bidders	Clarification from BNPM
1	<p>Section VII- Technical Specification & Scope of Work: Clause I. Oil Lubricated Screw Air Compressor , Technical Data sheet: Sr No 3 , Schedule of performance Guarantee for the Compressor system to be guaranteed and to the proved for the site performance test</p> <p>Pg No 39-40</p>	<p>1.FAD =Flow rate value to be submitted by the bidder at 8.5 bar operating pressure.</p> <p>2. Total Compressor system power requirements =Electrical power units to be submitted by the bidder for the above quoted FAD at 8.5 bar operating pressure.</p>	<p>FAD and Power of compressor as measured as per ISO 1217 Ann.C standard, at Factory test Flow of compressed air is measured by Nozzle testing method. But BNPM Uses Vertex type flow meter. Nozzle testing method is more accurate than flow meter method Some time both value cannot be equal and thereby it is to be confirmed whether the Vertex flow meter is calibrated by BNPM.</p>	<p>1.Measurement of FAD by Nozzle method at Factory test is acceptable. Factory test shall be witnessed by BNPM</p> <p>2. At BNPM site performance test, FAD and power shall be computed from the existing Vortex Flow meter and Multi Function power meter of BNPM only. Vortex Flow meter was Calibrated by OEM (Khrone Marshall) and is working satisfactorily.</p>

ISSUE
R0



2	Section VII- Technical Specification & Scope of Work: Clause II. Heat Recovery System , Technical Data sheet Clause :Sr No 6 , Other specifications & Accessories required: : Pg No 41	Point 4.Mechanical flow meter (Turbine Flow meter type 1 Nos, Any reputed brand) of Suitable size shall be supplied & installed at the Cold (Condensate) inlet of the Heat exchange	As per Tender, water flow at Cold side fluid details 6-7 m3/Hr, thereby additional mechanical flow meter is not required to be installed at (condensate)inlet of of the heat exchanger	Bidder has to comply with the tender specifications. Flow meter shall be analog type with provision of current flow indicator & totalizer flow indication . Approved Brands - Parker, Toshniwal , Webtech , Adept, Rockwin,Yokogawa /Any Equivalent Brand on approval from BNPM
3	Section VII- Technical Specification & Scope of Work: Clause II. Heat Recovery System , Technical Data sheet Clause :Sr No 6 , Other specifications & Accessories required: : Pg No 40	Moisture separator of capacity min 2300CFM shall be supplied by the bidder .Installation of this moisture separator is also in the scope of the bidder Only. Technical specifications (preferably shall be similar to the existing model installed at Site), test reports of the offered model shall be submitted to BNPM for approval prior to dispatch of the material. Latest technology models may also be considered by the bidder.	Moisture separator to be installed before the wet air receiver tank and before the dryer but we found that no space is available to install before wet air receiver tank, need to clarify the same.	Bidder has to comply with the tender specifications (Moisture separator shall be installed before the wet air receiver tank only, location shall be shown to successful bidder for installation)

ISSUE
R0



4.	Section VII- Technical Specification & Scope of Work: Clause 9 , Spares & Consumables : Pg No 42	The quoted price for Major (mandatory) Spares & consumables shall be considered for the overall bid evaluation and the quoted price shall be valid for a period of atleast 3 years from the date of issue of WO for the successful bidder.	Quoted price for Major (mandatory) Spares & consumables is valid up to 2 years from the date of issue of WO.	Bidder has to comply with the tender terms.
5.	Section VII- Technical Specification & Scope of Work: Clause 10, Interconnecting Piping & Ducting works: Pg No 42	<p>I.All the interconnecting piping, fittings, pipe supports, pipe line installation etc. shall be arranged by bidder to suite the existing system</p> <p>II.Piping material, structural support materials, GI ducts specification shall be in accordance with existing piping provided at BNPM compressor site.</p> <p>Required G I Duct (min 18 gauge) shall be provided for Suction & Exhaust of the Compressor as per the site requirements</p> <p>III.Piping layout drawings, G I Duct layout drawings shall be prepared by the successful bidder as per the site requirement in consultation with BNPM officials and shall be submitted to BNPM for approval</p>	Kindly provide Compressor Room layout details with roof height from the bottom.	Enclosed herewith.



ISSUE
R0

		<p>IV. On approval from BNPM, material supply, fabrication, erection works be taken up by the bidder.</p> <p>V. The bidder may visit the premises and ascertain the existing compressed air system, site conditions and understand the piping length, piping supports, Ducting requirements etc. for taking up the interconnecting piping & ducting works</p>		
6.	<p>Section I-NIT, Important Points at a glance, Clause : 5: Liquidated Damage: Pg No 5</p>	<p>A sum equivalent to the 0.5% of the delivered price of the delayed goods and/or services for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 10% of the delayed goods or service's contract price.</p>	<p>Liquidated Damage: 0.5%/week to Max 5% of the Basic total order value.</p>	As per Tender
7	<p>Section I-NIT, Important Points at a glance, Clause : 7: Terms of Payment Pg No 5 & Sec-V, SCC, Sr No 8, Pg 30</p>	<p>A. Supply (including spares): i.) 90% of order value against supply part will be released within 30 days after successful supply & acceptance of material at BNPM, Mysore along with submission of invoice & all required docs as per tender.</p>	<p>A. Supply (including spares): i.) 90% of order value against supply part will be released within 30 days after successful supply & acceptance of material at BNPM, Mysore along with submission of invoice & all required docs as per tender.</p>	As per Tender



ISSUE
R0

7.		<p>ii.)10% of order value against supply shall be released within 30 days after successful completion of Design, Unloading, Erection, Testing, Commissioning and Performance Test and based on user</p> <p>(BNPM) Certification for successful completion of the work along with submission of invoice & all required docs as per tender.</p> <p>B. Design, Unloading ,Erection , Testing , Commissioning , Performance Test, Civil Design :100% of order value against Erection , Testing , Commissioning , Performance Test , Civil Design</p> <p>shall be released within 30 days after successful completion of Erection , Testing , Commissioning ,Performance Test along with submission of invoice & all required docs as per tender. Payment shall be done in INR only. Payments to supplier shall be made by electronic transfer.</p>	<p>ii.)10% of order value against supply shall be released within 30 days after successful completion of Design, Unloading, Erection, Testing, Commissioning and Performance Test and based on user</p> <p>(BNPM) Certification for successful completion of the work along with submission of invoice & all required docs as per tender</p>	
----	--	--	--	--



ISSUE
R0

8.	Section V- SCC, Sr No 4 , Warranty Pg No 29	<p>1. Complete Compressor Package including Heat exchanger system = 1.5 Years from the date of acceptance of successful Performance test at site.</p> <p>2. Guaranteed Life of air end of the compressor =To be submitted by the bidder (At least 35000 Running hrs)</p> <p>3. Guaranteed life of Air /Oil Separator = To be submitted by the bidder (at least 6000 Running hrs)</p> <p>4.Guaranteed life of Oil Filter = To be submitted by the bidder (atleast 6000 running hrs)</p> <p>5. Guaranteed life of Air filter = To be submitted by the bidder (at least 3000 running hrs)</p> <p>6. Oil Change in the compressor = To be submitted by the bidder (atleast 6000 running Hrs)</p> <p>7. For all other items 1 year of warranty form the date of commissioning.</p>	All the consumables life of Air Compressor, Air Oil filter and separator shall be quoted in warranty deviation for the same shall be part of technical offer also.	The guaranteed life of the consumables quoted in the technical offer shall be applicable to the spares as well. Spares shall be procured as on when required by BNPM
----	---	---	--	--



ISSUE
R0

9.	<p>Section VII- Technical Specification & Scope of Work: Clause 11, Exclusion from the Scope of Work: Pg No 42-43</p>	<p>I.All Civil works.</p> <p>II.Incoming Power Supply (3Phase, 415V, 4 Wire) to the Compressor electrical panel.</p> <p>III.All the related auxiliary system (Pumps, Piping etc.) of heat exchanger system (However Supervision of the complete system shall be in the scope of the bidder only)</p> <p>IV.Any Field instruments if any external to the battery limits</p> <p>V.Interfacing with the existing PLC system For Heat Recovery system, Cold side inlet connection and other inter connecting piping etc.</p> <p>Note: Apart from the above explicitly mentioned exclusions, rest all the works for the successful commissioning including the performance acceptance test of the compressor & heat exchanger system shall be in the scope of the bidder only.</p>	<p>Interconnecting piping and support for compressor scope shall be as per quoted in case of any design changes during DDE same shall be informed so that there is no cost variation.</p>	<p>Apart from the exclusions mentioned in section VII Sr no - 11, rest all the works are in the scope of the bidder only</p>
----	---	--	---	--



ISSUE
R0

10.	Section VII- Technical Specification & Scope of Work: Clause I. Technical Datasheet of Oil Lubricated Screw Compressor , Sr No 1, Pg No 38	Skid Mounted, Oil Lubricated Screw air compressor, air cooled, Single stage with a min capacity of 1800 M3/Hr @ 7.5 bar working pressure and maximum Working Pressure shall be 8.5 Bar.	Quoted compressor shall be designed to deliver flow of 1800m3/Hr at design condition of 7.5 bar and maximum working pressure of 8.5 bar, Performance test at manufacturer works shall be shown at 7.5 bar (g). Performance test at site shall not be applicable all the Performance figures shall be shown at Manufacturer works as per ISO 1217 Testing standards.	The capacity of the compressor shall be min 1800 Capacity +/- 5% acceptable @ 8.5 bar pressure. 7.5 bar working pressure is stated for understanding purpose only. Performance test has to demonstrate the capacity of 1800 M3/Hr +/- 5% acceptable @ 8.5 bar at Factory acceptance test and site performance as well
11.	Section VII- Technical Specification & Scope of Work: Clause I. Technical Datasheet of Oil Lubricated Screw Compressor , Sr No 2,3, 4.Pg No 38	1.Single Stage Rotary Screw Oil-Injected Air compressor 2.Air cooled (Cooling fans with integrated motors) 3.With an inbuilt Microprocessor/PLC based control system with display for the operation & performance monitoring (Display of Trip settings, trip records ,alarms, running hours , performance , temp settings ,History, maintenance schedules etc. as applicable) of the compressor 4. Oil carry over shall be less than 2 PPM (max)	1. Oil lubricated screw data sheet - Sr No - 2 Noise level measurement shall be done only for reference due to unavailability of free field condition. 2. Oil lubricated screw data sheet - Sr No - 2 Starter panel shall be part of compressor skid suitable isolation panel shall be supplied separately. 3. Drive Motor of compressor shall be IE3, Deviation for IE4 shall be taken in technical deviation sheet.	1. Noise level of the compressor shall be less than 75 dB and the same shall be proved during site performance test 2. Separate Isolation panel is acceptable. 3. Bidder has to comply with the tender specifications.



11.		<p>6. Emergency stop provision of the system</p> <p>7. Type of Starter -Inbuilt Star Delta provision with suitable rating of the drive motor</p> <p>8. Electrical System – Preferably Inbuilt electrical Panel along with Incoming Power Supply isolators (Suitable MCCB for the incoming Power supply must be provided), contactors, along with all the required protective switchgear system.</p> <p>9. Protection Mechanism : All the applicable protection mechanism for both compressor & drive motors are required (Inbuilt multi-level safety & interlock devices , High Pressure build up , high discharge temperature protection , overload protection , earth fault , short circuit etc. for the safe operation of the equipment).</p> <p>11. Noise Level – As per ISO 2151 standards</p> <p>12. Design – Design of the compressor shall be as latest applicable IS standards /ISO1217:2009 wherever applicable.</p> <p>13. Bidder may also offer latest technology , energy efficient , Low operating & life cycle cost , higher operator safety machines (better than the proposed system) in oil lubricated air cooled screw compressors category suitable for the existing compressed air system at BNPM Mysuru.</p>	<p>4. Specific power consumption shall be provided for operating pressure or Maximum working pressure to be confirmed.</p> <p>5. Standard Quality Assurance Plan Shall be as per Manufacturer standard. Site Performance test for the same shall not be applicable.</p>	<p>4. Specific power consumption shall be provided for the capacity of 1800 M3/Hr +/- 5% acceptable @ 8.5 bar maximum working pressure.</p> <p>5. QAP as provided by the OEM is acceptable , However FAT & SAT has to be done as per the tender specifications.</p>
-----	--	---	---	---

RO



III.Extension of Tender submission due date:

<u>Sl No.</u>	<u>Previous Provisions</u>	<u>Action/Clarification incorporated in this Corrigendum</u>	<u>Reason for Amendment</u>
1.	Offer Submission Closing Date: 14.10.2019 at 14:00 Hours	Offer Submission Closing Date:31.10.2019 at 14:00 Hours	To adhere the revision & clarification against this corrigendum sufficient time should be given to the prospective bidders.

IV.SEC - VIII, QUALITY CONTROL REQUIREMENT : REVISED TECHNICAL COMPLIANCE STATEMENT

Sl. no.	Description	Whether Agreed by the firm	Deviat ion, if any
1	Scope of work , Technical Specification of the requirement as per Sec - VII are understood & accepted by the bidder	Yes agreed	
2	Bidder will submit all the mentioned technical documents as mentioned in Sec - VII	Yes agreed	
3	All the Guarantee & Warranty Terms & Parameters as per Sec - VII are understood & accepted by the bidder	Yes agreed	
4	All the Tests , Test Certificates to be submitted as mentioned in Sec -VII are accepted by the bidder	Yes agreed	
5	All the approved makes as mentioned as per Sec -VII are accepted by the bidder, any other make if proposed by bidder shall be subjected to approval from BNPM.	Yes agreed	



ISSUE
R0

6	All the design, drawing, document, QAP (including civil work) as per scope of work for submission against techno commercial evaluation & after award of contract are accepted by bidder.	Yes agreed	
7	Bidder to submit L1 Schedule (Activity wise brief work completion schedule) in Gantt Chart Form with Techno commercial Bid.	Yes agreed	
8	If LOI is awarded then L2 Schedule (Activity wise detail work completion schedule) in Gantt Chart Form along with Drawing List & Drawing Submission Schedule is to be submitted for approval within 1 week by the successful bidder in Gantt Chart form with detail of activities towards work completion schedule.	Yes agreed	
9	Drawing, Documents are to be submitted as per the approved Drawing list & submission Schedule .Drawing, Documents will be evaluated within 7 days of receipt by BNPM. Revised Drawings, Documents are to be submitted within 7 days of receipt of commented Drawing, Document.	Yes agreed	
10	If LOI is awarded then Detail Billing break up is to be submitted for i. Supply , ii, Erection , Commissioning , Testing, Performance Test, iii Civil Design, iv Essential Spares	Yes agreed	
11	Guaranteed Life of the Oil Filter is 6000 Running Hours	Yes agreed	



ISSUE
R0

V.SEC XI- REVISED PRICE SCHEDULE
(TO BE FILLED ONLINE ONLY THROUGH E PORTAL)

A copy of sealed & signed blank price schedule has to be submitted along with pre-qualification & techno-commercial offer)

Dear Sir,

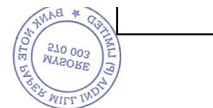
Sub: Revised Price bid for Compressor with Heat Recovery System at Bank Note Paper Mill,Mysuru

Ref: e-Tender : BNPM/NCB/COMPRESSOR/523/2019-20 Dated 13.09.2019

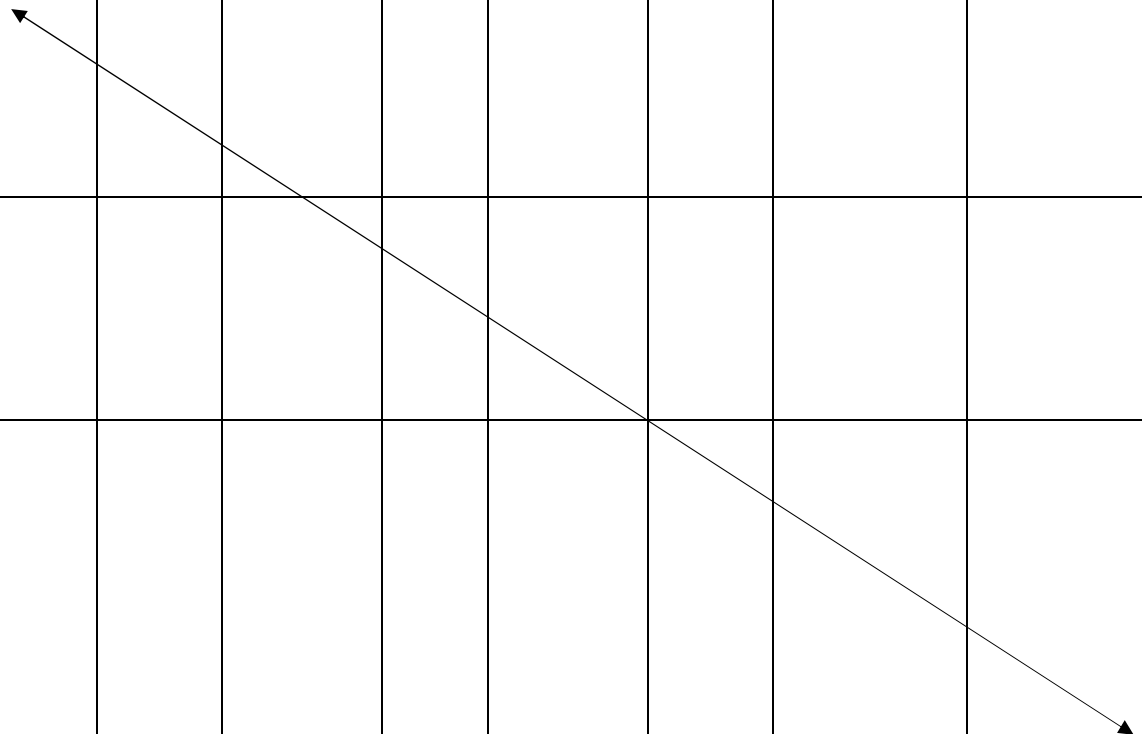
We have received and understood the above tender enquiry and are pleased to submit our price bid as under:

FORM: B-1

Schedule No.	Description	UOM	Qty	HSN /SAC Code	Price (INR)								
					Basic unit Price (INR)	Freight , P&F, insurance charges (INR)	Unit price (Incl. of Freight, P&F, insurance at FOR BNPM, Mysore basis)	GST in %	Total unit price (Incl. of Freight, P&F, insurance & GST) (INR)	Input Tax Credit for HSN/ SAC (INR)	Effective unit price (net of input tax credit, Incl. of Freight, P&F, insurance at FOR BNPM, Mysore)	Effective price (net of input tax credit, Incl. of Freight, P&F, insurance at FOR BNPM, Mysore basis) (INR)	
					(a)	(b)	(c)=(a)+(b)	(d)	(e)={{c*d} +{c}}	(f)	(g)=(e)-(f)	(h)=(g)*(q)	
			(q)										



1.	Supply of Compressor- As per Technical Specification/Scope of work - Sec - VII	Lot	1										
2.	Supply of Heat Recovery System- As per Technical Specification/Scope of work - Sec - VII	Lot	1										
3.	Design , Unloading ,Erection , Testing , Commissioning , Performance Testing , Civil Design Work of Compressor with Heat Recovery System - As per Technical Specification/Scope of work - Sec - VII	Lot	1										
4.	Essential Spares & Consumables- As per Technical Specification/Scope of work - Sec - VII (Refer Form B2)	Lot	1										



ISSUE
R0

ISSUE
R0



5.	Oil Filter Running Cost for 6000 Hours (Per Hour Running Cost is to be provided in Basic Rate)	Hr	600 0								
Total effective price (net of input tax credit) including Freight, P&F , insurance charges (FOR – Bank Note Paper Mill Mysore site) (INR)- As per scope of work – Sec - VII											
Total effective price (net of input tax credit) including Freight, P&F , insurance charges, Civil Design (FOR – Bank Note Paper Mill Mysore site) (INR)- As per scope of work – Sec – VII in word											

The method of evaluation of bidder for awarding the contract shall be on the basis of overall effective price quoted by the bidder for delivery up to BNPM, Mysore for that item.

()

Seal

Name

Signature with Date

Note:

i) Price should be quoted exactly as per the format given above; Price bids with conditions / Counter conditions are liable for rejection.

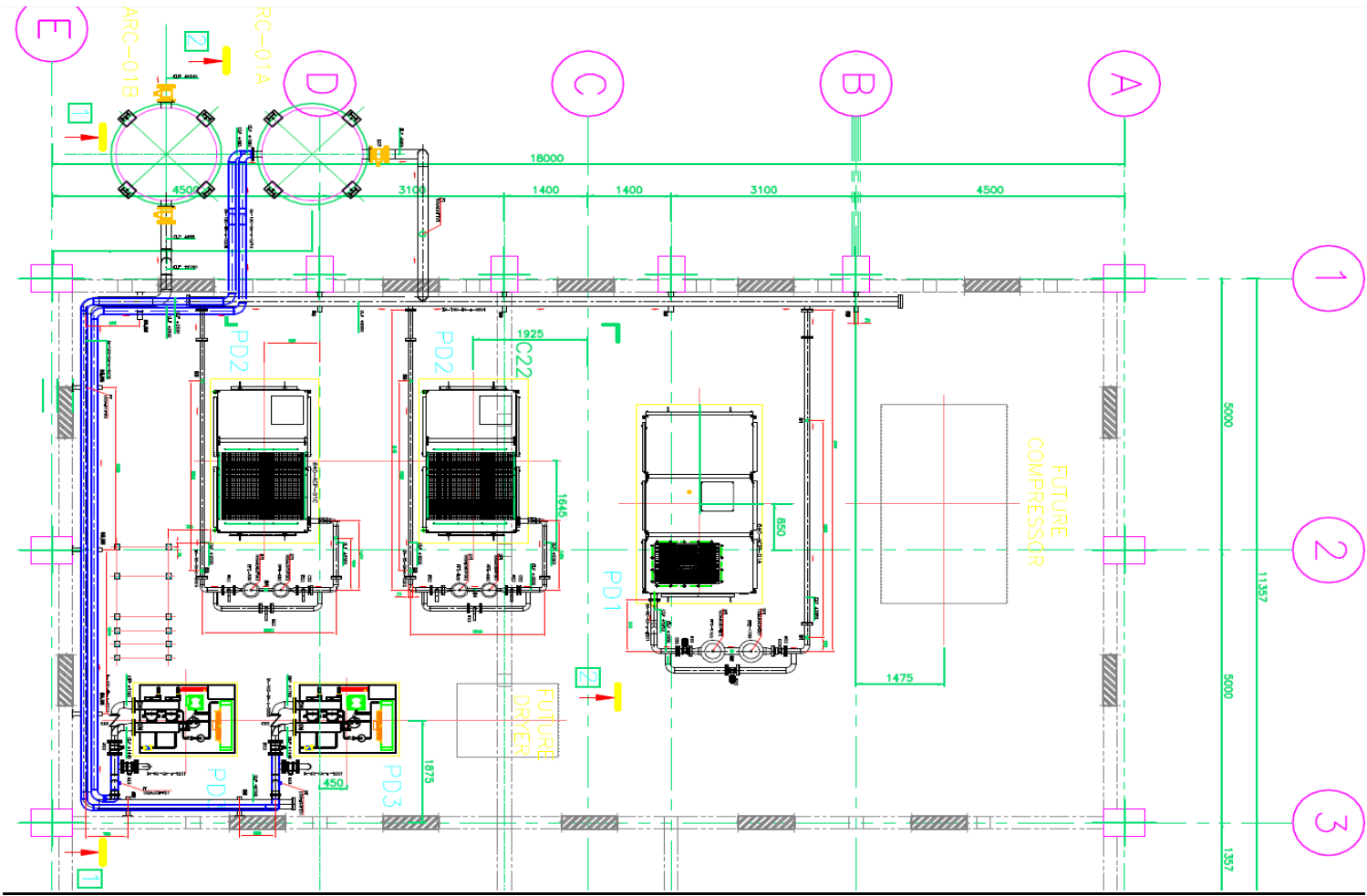
ii) Multiple / Variable rate for single item, would lead to rejection of offer.

VI.Compressor Room Layout Details



ISSUE
R0

ISSUE
R0



ISSUE
R0

ISSUE
R0



Details provided in this corrigendum shall override those mentioned in the tender no. BNPM/NCB/COMPRESSOR/523/2019-20 Dated 13.09.2019

Except for details mentioned herein, all other details contained in the Tender no. BNPM/NCB/COMPRESSOR/523/2019-20 Dated 13.09.2019 shall remain unchanged.



ISSUE
R0