



भारत प्रतिभूति मुद्रणालय/INDIA SECURITY PRESS

नासिक - 422101 (महाराष्ट्र) / NASHIK - 422101 (MAHARASHTRA)

सिक्वोरिटी प्रिंटिंग एंड मिंग्टिंग कॉरपोरेशन ऑफ इंडिया लिमिटेड की इकाई

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मिनिरत्न श्रेणी-I, सीपीएसई / Miniratna Category - I, CPSE



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CIN : U22213DL2006GOI144763

EXPRESSION OF INTEREST (EOI)

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Date of Issue: 10.08.2026

1.	Name of the organization	India Security Press, Nashik (A unit of Security Printing and Minting Corporation of India Limited)
2.	Type of the organization	Wholly owned by Government of India
3.	EOI Reference No	EOI No. ISP/MECH/01/2026-27 dated 10.08.2026
4.	EOI Title	Expression of Interest (EOI) for SITC of Compressed Air Pipeline.
5.	Category	Paper
6.	Date of Announcement	10.08.2026
7.	Last date for submission:	14:30 Hrs (IST) on 01.09.2026 (Tuesday)
8.	Date of EOI Opening	15:00 Hrs (IST) on 01.09.2026 (Tuesday)

1. The Chief General Manager, India Security Press, Nashik invites 'Expression of Interest (EOI) for SITC of Compressed Air Pipeline'.

2. The Brief requirement of ISP for "SITC of Compressed Air Pipeline" is enclosed at **Annexure - I**.

3. Pre-Qualification Criteria:

- The bidders should give a declaration that they have not been blacklisted or debarred for dealing by Government of India or any Government / PSU/ Reputed organization in the past. (*"We M/s _____ firm has not been blacklisted by Government of India/PSU/Any reputed organization in the past"*)
- The documents in support of Expression of Interest (EOI) need to be submitted **Duly Signed by Authorized Representative** of the company.
- The Bidder (manufacturer or principal of authorized representative) shall be a manufacturer / authorized supplier of "Compressed Air Pipeline" manufactured and supplied at least 1 No. of 'Compressed Air Pipeline' any one of the last five years ending on 31st March 2025.
- The interested bidders shall also submit copies of Audited financial statement (Audited Balance Sheet and Profit & Loss Account) for the last Five (05) years i.e. 2020-2021, 2021-2022, 2022-2023, 2023-2024 & 2024-2025.

4. The bidder should also confirm specifically that:

- Applicant is competent and legally authorized to submit and/ or to enter into legally binding contract.



- (b) The firm should confirm their annual installed capacity for Digital production system compatible processing software to print wide variety of substrates or media.
- (c) Applicant will absolve the purchaser against any infringement of patent rights and other contract provisions.
5. The duly filled details along with supporting documents and budgetary offer(s) with respect to 'SITC of Compressed Air Pipeline.'
6. Budgetary offers shall clearly mention prices inclusive of GST and all cost components such as Packing & Forwarding details, Freight & Insurance charges upto destination etc. on FOR India Security Press, Nashik Road (Maharashtra), India, basis only.
7. The same may be submitted in person or through courier/ registered post/ speed post with subject/title of EOI & EOI No. clearly mentioned on package, so as to reach the following address on or before the prescribed date and time as under:

*The Chief General Manager,
India Security Press,
Nashik Road -422 101.
Phone No: 0253 240 2260 / 2434.
Email: purchase.isp@spmcl.com;*

8. NOTE:

- a) Last date and time for receipt of Expression of Interest: 01/09/2026 (Tuesday) at 14:30 Hrs. (IST)
- b) Date and time of opening of Expression of Interest at 15:00 Hrs. (IST) on 01/09/2026 (Tuesday).
- c) Place of opening of Expression of Interest
*India Security Press,
Nashik Road, Pin - 422 101,
Maharashtra, India.*
- d) Delay due to postal/Courier etc., will not be entertained. Expression of Interest received after the due date and time will be rejected.

**Arindam Biswas
Jt. GM (TO)/Purchase
for Chief General Manager
India Security Press, Nashik Road**



SITC OF COMPRESSED AIR PIPELINE

Annexure - I

For New Wing, DSB section and Centralised Compressor Room

A] Scope of Work:

Supply, Installation, Testing and Commissioning of Aluminium compressed air pipeline, fittings, valves, Air receivers etc. with necessary supports, as per relevant standards for Compressed Aluminium Airline. The scope includes the following:

a.1) Supply Portion:---

1. Supply of Materials required for the Aluminium compressed air pipeline fittings, valves, Air receivers etc. The detail of the material is given below in BOQ.

a.2) Installation, Testing and Commissioning

1. Installation of the pipeline with required necessary fittings like Tee, elbows, equal connectors, threaded socket etc. and pipe support structures as per site requirement.
2. Installation of Air receivers, Filters, Auto drain valves, Flow meters, Ball valves, NRV etc. as per layout.
3. Integration of existing Aluminium Air Pipe Line to new Aluminium Compressed air pipeline.
4. Pneumatic testing of the laid pipelines at 10 Bar pressure.
5. Dismantling and shifting of old G.I. Pipe line. (Length- 300 m approx.)

B] Description of the System:

1. The system shall be provided with all necessary aluminium piping, fittings, isolating and stop valves, down take pipes extensions, connections, Air receivers, auto drain valves, Compressed air filters, Digital flow meters, Non return valves and misc. fittings. The air pipeline shall generally run over the head position inside shop at height stipulated normally along the structure / column and shall be clamped on support bracket to be fixed on the column/beam, girder etc.
2. The down take(drops) shall be taken from the main header pipeline through a Quick Assembly Bracket with swan neck connection which will restrict main line moisture coming in drop line.
3. The down take connections shall be running vertically and terminated with ball valve, reducer and suitable nipple to connect PU tube (push fit) of 12 mm diameter as per site requirement. The down take pipes shall be properly fixed and clamped. Air drop is to be provided at a height of approx. 500 mm above ground level.
4. Colour code of the piping shall be sky blue.
5. Total Nos. of Drop Lines to be provided – 39 nos. approx.
6. The design of pipe line network should be as such that the pressure & volume of the air should be uniform.
7. The aluminium based piping shall be non-corrosive and with least pressure drop, light weight, anodized, leak proof, flexibility for reusability.



8. Any civil work & structural work wherever required and its repairing to original position shall be done by the party / bidder.
9. Party / bidder shall perform Pneumatic testing at required CFM and pressure for 36 hours of all installed Piping for Air tightness at 10 bar and no leakage should be observed. All equipment, machinery, apparatus & materials required for carrying out the test shall be arranged by the party.
10. The air circuit of individual machine should have provision to isolate it from the Main pipe network and should be easily accessible when machine is not in operation.
11. Whole pipe lines which run across the machines will not have any welding joints for safety and accuracy.

C] Design Parameters:

Operating pressure:	8 to 9 Bar
Peak Max Temp.:	-10°C to + 60°C
Working Temp.:	10°C to 45°C
Plant Testing Pressure:	13 Bar
Pressure Drop:	< 5 % of supply Pressure
Humidity	30-70%

D] Technical Specifications –

1. PIPE:

Rigid aluminium pipe should have following features.

1. Colour RAL 5012 (Blue; Compressed Air), ANSI A13.1 ID Colour Code, BS1710
2. MATERIAL Extruded aluminium alloy 6063 T5 ASTM B241, should not contain any detectable traces of silicone. Cast Aluminium Alloy– Solution Annealed, artificially aged. The material should have an alpha-phase structure with precipitation of Si. Extruded pipe confirms to EN 755.2, EN 755.8 and EN 573.3. It should have Alodine 400 chrome free anodising.
3. Factor of Safety SAFETY FACTOR - 4 for all diameters (burst pressure)
4. WORKING PRESSURE Max 16 Bar Calculated according to ASME B31.1
5. WORKING TEMP. -10°C to + 60°C
6. OUTSIDE TREATMENT Polyester powder paint (QUALICOAT certified surface finish)
7. INSIDE TREATMENT Chrome free conversion treatment
8. Pipe length 6 meter approx.
9. Compliance Clean air ISO 8573: 2001 and 2010 class 1.1.1
10. Weight of the pipes
Dia 100 mm pipes weight should not be less than 1.933 kg /m.
Dia. 63mm pipes weight should not be less than 1.029 kg /m.
Dia. 40mm pipes weight should not be less than 0.477 kg /m.



Dia. 25mm pipes weight should not be less than 0.322 kg /m.

The piping system should be resistant to corrosion, mechanical shocks, thermal variations and outdoor weather conditions, protected from direct UV rays and precipitation. It should have Optimum flow rate performance with light weight, suitable for Compressed Air. Manufacturer should provide 10 years warranty for pipeline.

2. FITTINGS:

A. Fittings 20 to 50mm OD

CONNECTION:	Push to fit Technology Standard, Gripping ring instant connection, tightening of the nut secures the final assembly.
MATERIALS	Engineered polymer PA6 -GF30 fiberglass reinforcement Aluminium high pressure die casting EN AC-46100, similar to A03830 Wrought aluminium alloy 6082 ASTM B85 / EN 1706 ASTM B221
SEAL FITTINGS	NBR 70 SH. A (PTFE coating on pipe seal)

B. Fittings 63 to 76mm

CONNECTION	Torque to grip technology Standard, Snap ring quick-fit connection, tightening of the nut secures the final assembly.
MATERIALS	Aluminium high pressure die casting EN AC-46100, similar to A03830 Aluminium permanent mould casting EN AC-43100, similar to A13600 Wrought aluminium alloy. Grip ring -S.S., Should confirm to 6082 ASTM B85 / EN 1706 ASTM B85 / EN 1706 ASTM B221
SEAL FITTINGS	NBR 70 SH. A (PTFE coating on pipe seal)

C. Fittings 100 mm OD and above

CONNECTION	Bolt clamp tech. / Lug and clamp quick-fit connection
MATERIALS	Aluminium permanent mould casting EN AC-43100, similar to A13600 High yield strength steel for cold forming Grade 50 ASTM B85 / EN 1706 ASTM A572 Clamp - Sheet metal steel, SS355MC, acc EN10149-2, Grip ring -S.S. AISI 30,
SEAL FITTINGS	NBR 70 SH. A

- All connections should be leak resistant and should offer superior sealing with double O-ring and bite ring grips.
- For vertical down takes (drops) from main header; Quick Assembly Bracket with Swan Neck Connection should be used which will also restrict main line moisture from coming in drops.
- Pipe Support – Polyamide with SS fasteners.
- Pipe Joints should be CE certified with factory test certificate and made of special polymer which can take pressure of 25 Bar.
- Fixture Accessories – Galvanised Steel, Brass.



3. Digital flow meters

- As mentioned in lay out 3 nos. of digital flow meters are required to be installed in pipeline of 63mm dia. at centralised compressor room.
- Flowmeters should be suitable for flow of 12000 litres per minute.
- A common display for all three flowmeters is required.
- Necessary power supply unit should also be supplied by the vendor.
- Common display should be installed on wall of centralised compressor room.
- Type: 3 colour display, Digital flow switch for large flow - Body ported type. IO link compatible.
- Flow meters should have good resistance to moisture and foreign matters, with minimum pressure loss.

4. NON-RETURN VALVE

7 nos. of Non return vales need to be installed at the output of the compressors. Check and Foot Valve with screwed ends.

Size: 2 ½" DN 65

Pressure: 12 bar

Working temperatures: -20°C to 100°C.

Material: Body should be made of brass, Plates should be of stainless steel, Washer in NBR,

Spring: stainless steel

5. AIR Receiver

Tank volume	2 m ³ – 2 Nos.; 1 m ³ -1 No.
Orientation	Vertical
Type	Cylindrical with dish heads
Working pressure	10 Bar
Design Pressure	11 Bar
Hydro Test Pressure	17 bar
Working Temp	0-60° C
Design Temp	150° C
Material	ASTM SA-516 Gr.70 / SA-105 / SA-106 Gr-B / SA-193 Gr-B7 / SA-194 Gr-2H, Non-pressure components: IS2062 Gr-A, Carbon Steel Grade IS-2062 Gr.B
Shell Thickness	8 mm
Dish End Thickness	10 mm
PRV type	Lever type
Allowable Stress at 100° C	14 kg/cm ²



Joint Factor	0.85
Shape Factor	1.19
Corrosion allowance	1.5mm
Duty	Continuous
Design code	ASME sec 8 Div 1
MOC	IS:2062, IS 2825
Inlet pipe diameter	2 "
Exit pipe diameter	2"
Provision on top for (a)Pressure relief valve, (b)Water filling point	0.5" or 1" nozzle
Provision for pressure gauge and temperature sensor	0.25"/0.5", 100 mm protrusion, Pressure gauge of 6" diameter dial, SS material
Nozzles for auto and manual drain valves	SA106 Gr B
Pressure relief valve	12 bar max pressure, opening pressure >5% of max. pressure, SS material, 1" size, ASME standard.
Vent	1"
Extra connection	1"
Man Hole	200 x 150 mm elliptical
End flanges	MS, Class 150
Gaskets	SS304, spiral wound, CAF 3mm
Non pressure components	IS 2062 Gr. A
Skirt arrangement to position the receiver	As per the size of the receiver
Weight	

Other requirements:

1. Pressure relief valve, manual drain valve, auto-drain valve and WFP should be included.
2. All pressure weldings should be of full penetration.
3. Welder should furnish a WQR with valid certificate along with a recent photograph.
4. All relevant test certificates (material testing certificate, Dimension inspection report, drawings hydrostatic test certificate etc.) Warranty Certificate should be submitted. Hydrostatic test pressure should be 1.5 times the design pressure.
5. Painting: The entire length of the receiver should be given 2 coats of Zinc Chromate primer, and 2 coats of enamel paint as per standard blue colour for compressors and supply lines and the supports should be painted Black as per IS5 standard. Inside receiver bitumen coat.



6. Compressed Air filters

03 nos. of Compressed air filters need to be installed in compressed air line after Air Receivers.

1. Compressed air filter should be capable of removing the Oil aerosol, wet dust, water drops, maximum dirt, solid particles and rust.
2. Filters should be compact in size and has threaded ports for connection.
3. Filters should have internal aluminium body, SS support sleeve, internal automatic drain and manual drain.
4. Filter element service life should be at least 4000 hours or 1year.
5. Particle removal size should be 0.01 micron or lesser.
6. Max. operating temperature is 80 °C
7. Max. operating pressure is 16 bar g
8. Wet pressure drop should be less than 245 mbar.
9. Maximum oil carry-over in compresses air should be less than 0.0009 mg/m³.
10. Nominal capacity of filter: 300 cfm
11. Filtering efficiency should be 99.9999% or more
12. Filters should comply following quality standards.

ISO 8573-1:2010: Compressed air - Contaminants and purity classes

ISO 8573-2:2007: Compressed air - Test method for oil aerosol content

ISO 8573-4:2001: Compressed air - Test method for dust

ISO 8573-5: 2001: Compressed air - Test method for oil vapor and organic solvent content

ISO 12500-1:2007: Filters for compressed air - test methods - oil aerosols

ISO 12500-2:2007: Filters for compressed air - test methods - oil vapours

ISO 12500-3:2009: Filters for compressed air - test methods – particulate

Test method ISO 8573-2:2007, ISO 12500-1:2007

13. Supplier will provide the filters as per specifications and install it in the compressed air pipeline.
14. Filters should have the warranty of at least 1 year from the date of installation.

7. Auto drain valves:

Auto drain Valves will be installed at the drain of the Air receivers and moisture traps.

8 nos. of auto drain valves are required. ISP will provide electrical supply up to the location. Firm will make the necessary wiring, plug, board, switch for operation of auto drain valve.

8. Aluminium Pipeline repairing kit

Kit should be suitable for repairing of 20 to 100mm dia. of pipes and joints.

It should contain

- Pipe and tube cutter
- Spanner wrenches



- Measuring gauge set
- Hole saw
- Allen keys
- Glycerine Gel
- Torque wrench handle with drive heads
- Pipe deburring tools
- Pin deburring tools
- Drilling tools
- O-rings of suitable size for replacement.
- Suitable case.

9. Certification and Compliance

Pipeline and fitting material should have compliance with following standards and certificates

1. ASME / ANSI / ASTM

ASME B31.1 / B31.3, ASME Code for Pressure Piping, B31.3_04 compliant.

ANSI US Standardization and Conformity Assessment

ASTM Test Methods Standards B85 / EN 1706, ASTM B221

2. PED / ISO Compliance / TUV (EU – Global)

PED –Pressure Equipment Directive (EU), TUV - Technischer Überwachungsverein Safety Validation Organization (EU),

ISO 9001 ISO TS16949

ISO14001

ISO 8572:1991 –Glass reinforced Fittings specifications (International)

ISO 8573-1

3. CE certification

4. REACH -RoHS directive compliance

5. Eco friendly design

6. Silicon free certificate

7. For safety it should confirm to - I Euroclasses EN13501-1 & UL94 certificate, ATEX

E] Terms and conditions

1. The party / bidder must be a reputed manufacturer/authorised dealer/supplier of Compressed Aluminium Airline pipes and fittings and the latest authorization certificate from the OEM / Authorised dealer shall be submitted by the party / bidder.
2. It is advised to, Party / bidder should visit the site and assess the scope of work & the site condition before quoting the rates. No claim on account of lack of knowledge will be entertained later on.



3. All the materials, tools, accessories etc. required for fabrication, erection & commissioning, testing of compressed air piping, fittings, valves etc. with necessary supports, as per relevant certification shall be provided by the party / bidder.
4. The party / bidder shall arrange and provide all consumables / accessories for erection, commissioning and testing of the compressed air pipe line at site and as per site requirement.
5. All the supplied items should comply the related standards where ever applicable and adequate certificate for the same has to be made available at the time of bid submission.
6. Datasheets of all materials with make shall be submitted by the party / bidder along with the technical bid supported by the relevant catalogue / leaflet.
7. The measuring instruments like pressure gauge, Flow meters etc. installed along with the compressed air piping system shall be duly calibrated by recognized agency and calibration certificates shall also be provided by the party / bidder.
8. The party / bidder shall depute its experienced engineer(s) for complete Installation / commissioning and testing of the pipe line system at our works. The engineer(s) will train our officials for operation and routine maintenance.
9. All tools and tackles will be arranged by the party / bidder for execution of the work.
10. Vendor shall strictly use steel scaffolding while working at height (>1.8m) and shall also bring necessary personal protective equipments like safety shoes, hand gloves, helmet, safety belt so as to work safely.
11. Packing, Unpacking, loading, & unloading of items at ISP, Nashik shall be the responsibility of party / bidder only.
12. All precautions shall be taken by vendor while carrying out air leak test for the pipe joints at site.
13. ISP will have no responsibility towards any losses suffered by the party / bidder during execution of the work.
14. During the execution of the work if the site gets spoiled the party / bidder shall have to made up / repair of the same.
15. ISP will have no liability to allocate any storage facilities for accommodating staff / items of the party / bidder.
16. Vendor shall strictly use necessary personal protective equipments like safety shoes, hand gloves etc. so as to work safely. ISP will not bear any responsibility for any accidents during execution of the work
17. Quantities mentioned in the Bill of Quantity are estimated quantities and it may increase or decrease as per actual site requirement.
18. ISP will only provide work space, electricity & water supply for execution of work. Rest all arrangement is to be done by the party / bidder including any fabrication, civil works required for installation.
19. The party / bidder shall warranty / guarantee the material and workmanship of the entire system for a at least One year from the date of commissioning and final acceptance.
20. Party / bidder shall ensure that all supply, installation, commissioning, testing & synchronization of the complete system in their scope which will give smooth working of the system.
21. ISP as a security organisation, Hence, the firm has to submitted the Police verification report of all the personnel of the vendor working in ISP premises. CISF is deployed in ISP for security, the party / bidder shall have to observe all the security by – laws.



22. After sales service and spares availability shall be ensured by the party / bidder.
23. Approximate duration of the project (Supply, installation, Testing and commissioning) will be 6 months from the date of Purchase order.
24. After completion of installation of pipeline, complete system will be under observation for 2 weeks. After satisfactory trial acceptance will be made.
25. The average working height is approx. 4.5 meters
26. All the waste created during the work should be shifted by the firm to the Scrap yard ISP.

F] Bill of Quantity (BOQ)

Sr.	Description of Work	Quantity (Approx.)
1.	Supply and installation Dia 63 mm Al. pipeline with required necessary fittings like Tee, elbows, equal connectors, threaded socket etc. and pipe support structures as per Technical specifications and layout.	825 meters approx.
2.	Supply and installation Dia 40 mm Al. pipeline with required necessary fittings like Tee, elbows, equal connectors, threaded socket etc. and pipe support structures as per Technical specifications and layout.	120 meters approx.
3.	Supply and installation Dia 25 mm Al. pipeline with required necessary fittings like Tee, elbows, equal connectors, threaded socket etc. and pipe support structures as per Technical specifications and layout.	410 meters approx.
4.	Supply and installation Dia 100 mm Al. pipeline with required necessary fittings like Tee, elbows, equal connectors, threaded socket etc. and pipe support structures as per Technical specifications and layout.	50 meter approx.
5.	Supply & installation of 25mm Drop Pipe Line from Header pipe line of 63mm, vertically having a drop length of approx. 6 mts. Supply & installation of 25mm Drop Pipe Line from Header pipe line of 40mm, vertically having a drop length of approx. 6 mts. a) The down take shall be taken from the main header pipeline through a Quick Assembly Bracket with swan neck connection which will restrict main line moisture coming in drop line. b) The down take connections shall be running vertically and terminated with ball valve, two port 90 deg. Valve bracket, reducer and suitable nipple to connect PU tube (push fit) of 8 mm / 12 mm diameter, as per site requirement. The down take pipes shall be properly fixed and clamped.	25 nos. approx. 11 No. approx.
6.	Supply and installation Moisture drops. Location as per layout. The down take (25mm line) shall be taken from the main header pipeline 63mm dia. Ball valve and auto drain valve will be installed at the end of the line drain pipe will be inserted in the nearest trench/ gutter.	3 Nos.



7.	Supply and Installation of Air receiver of capacity 2m ³ as per technical specifications	2 Nos.
8.	Supply and Installation of Air receiver of capacity 1 m ³ as per technical specifications.	1 No.
9.	Supply and installation of Digital Flow meters with display in centralised compressor room.	3 Nos.
10.	Supply and installation of Non return valve at the outlet of screw compressors.	7 nos.
11.	Supply and installation of compressed air filters at the outlet of the Air receiver.	3 Nos.
12.	Supply and installation of Ball valves along with necessary fittings as per layout. 63mm – 25 Nos., 40mm -1 No., 25mm- 44 Nos.,	
13.	Aluminium pipeline repairing kit.	1 No.
14.	Dismantling of old G.I. Pile line and shifting to the location specified by ISP.	300 m approx.
15.	Necessary hardware and clamping material for securing pipe and fittings and other equipments.	As per requirement.

G] Layout

Layout of proposed pipeline is attached.

H] Probable BOM

Sr. No.	Description	Quantity Required	Remarks
1	100 -100- 63 Tee joint	6	
2	100 mm elbow	11	
3	100 mm dia. Pipe	10	
4	25 mm dia. Pipe	68	
5	25 mm dia. pipe equal connector	25	
6	25 mm dia. pipe Tee joint	3	
7	25 mm dia. pipe elbow joint	18	
8	25 mm dia. pipe Ball valve	45	
9	25 x 16.5 mm reducer connector	1	
10	40 mm dia. pipe	21	
11	40 mm dia. pipe equal connector	18	



12	40mm dia. pipe elbow joint	7	
13	40 mm dia. pipe T joint	1	
14	63 x 63 x 40 Tee connector	1	
15	40 x 25 drop QUICKDROP PUSH FIT D40XD25	9	
16	63mm dia. Pipe	142	
17	63 equal connector	105	
18	63 equal T	13	
19	63 Elbow	64	
20	63 Ball Valve	22	
21	63 x 25 drop	33	
22	End cap 63	1	
23	Nipple Socket 63 mm x 2" NPT	24	
24	Nipple Socket 63 x 1 1/2" NPT	12	
25	Receiver tank -2 m ³	2	
26	Receiver Tank -1 m ³	1	
27	Auto drain valve	6	
28	Digital flow meter with fittings for 63mm pipe	3	
29	Compressed Air Filters	3	
30	Pipeline repairing kit	1	
31	NRV	7	
32	Necessary Hardware, accessories, clamps, fittings, tie rods, flanges etc.	As per requirement.	
33	Flexible hose pipes for compressed air system	As per requirement.	
34	100 mm Equal pipe connector	5	

Note:- Above mentioned BOM / BOQ is tentative. All the items required necessary for successful completion of the project but not indicated in the BOQ/ BOM and layout shall be supplied and installed by the vendor without any extra cost.