



Bid Number: GEM/2022/B/2697965  
Dated: 09-11-2022

**Bid Document**

Bid Details	
Bid End Date/Time	09-12-2022 15:00:00
Bid Opening Date/Time	09-12-2022 15:30:00
Bid Offer Validity (From End Date)	120 (Days)
Ministry/State Name	Ministry Of Finance
Department Name	Department Of Economic Affairs
Organisation Name	Security Printing And Minting Corporation Of India Limited (spmcl)
Office Name	Janpath
Total Quantity	33
Item Category	Title1 , Title2 , Title3 , Title4 , Title5 , Title6 , Title7 , Title8 , Title9
BOQ Title	Procurement of different type of temperature transmitter
MSE Exemption for Years Of Experience	Yes
Startup Exemption for Years Of Experience	Yes
Document required from seller	Certificate (Requested in ATC), OEM Authorization Certificate, Additional Doc 1 (Requested in ATC), Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Primary product category	Title9
Time allowed for Technical Clarifications during technical evaluation	2 Days
Evaluation Method	Total value wise evaluation

**EMD Detail**

Advisory Bank	Indusind bank
EMD Amount	45000

**ePBG Detail**

Advisory Bank	Indusind bank
ePBG Percentage(%)	3.00



Duration of ePBG required (Months).
-------------------------------------

17
----

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**Beneficiary:**

Narmadapuram  
Security Paper Mill, Narmadapuram  
(Security Paper Mill)

**Splitting**

Bid splitting not applied.

**MII Purchase Preference**

MII Purchase Preference
-------------------------

Yes
-----

**MSE Purchase Preference**

MSE Purchase Preference
-------------------------

Yes
-----

1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to their meeting of quality and technical specifications. If the bidder is OEM of the offered products, it would be exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.
4. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for



Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

5. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

### Title1

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
------------	-----------

### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

### Title2

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)**

Brand Type	Unbranded
------------	-----------

### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	8	90

#### Title3

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
------------	-----------

#### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

#### Title4

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)



Brand Type	Unbranded
------------	-----------

#### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

#### Title5

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
------------	-----------

#### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	3	90

### Title6

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
------------	-----------

### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

### Title7

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
------------	-----------

### Technical Specifications

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

**Title8**

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
------------	-----------

**Technical Specifications**

Specification Document	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005,Security Paper Mill ,Narmadapuram , Madhya Pradesh	2	90

**Title9**

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

Brand Type	Unbranded
------------	-----------

**Technical Specifications**



<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Amit Yadav	461005, Security Paper Mill , Narmadapuram , Madhya Pradesh	10	90

## Buyer Added Bid Specific Terms and Conditions

### 1. Forms of EMD and PBG

Bidders can also submit the EMD with Account Payee Demand Draft in favour of Security Paper Mill payable at Narmadapuram.

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

### 2. Forms of EMD and PBG

Bidders can also submit the EMD with Fixed Deposit Receipt made out or pledged in the name of A/C (Name of the Buyer). The bank should certify on it that the deposit can be withdrawn only on the demand or with the sanction of the pledgee. For release of EMD, the FDR will be released in the favour of the bidder by the Buyer after making endorsement on the back of the FDR duly signed and stamped along with covering letter. Bidder has to upload scanned copy/ proof of the FDR along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date/ Bid Opening date

### 3. Certificates

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

### 4. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

### 5. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

1. F.O.R- Security Paper Mill, Narmadapuram (M.P.) duly unloading basis.
2. Delivery Period:- As per Gem Contract.



3. Liquidated Damages (LD) Clause: If the contractor fails to deliver the goods and/or services or any Installment thereof within the Delivery

Period, SPM Narmadapuram shall, without prejudice to other rights and remedies available to SPM, Narmadapuram under the contract, deduct from the contract price, as Liquidated damages, a sum equivalent to the rate of 0.5 % of the delivered price of the delayed goods and/or services along with applicable GST of 18% on the LD amount for each week of delay or part thereof until actual delivery or performance, subject to a maximum deduction of the 10% (plus GST on the LD amount) of the delayed goods or services.

4. The terms and conditions, guidelines of SPMCIL Procurement Manual Version 2.0 will be applicable to this bid at any stage to avoid any conflict at later stage. Kindly refer General Instructions to Tenderer

(GIT) and General Conditions of Contract (GCC) of SPMCIL Procurement Manual Version 2.0 for Additional terms and conditions as per the links

given below:

GIT: <https://spmCIL.com/uploaddocument/GIT/new.pdf>

GCC: <https://spmCIL.com/uploaddocument/GCC/new.pdf>

5. SPM (as Buyer) is liable to deduct TDS u/s 194Q @ applicable rate on goods purchases (if applicable). In case of deduction of TDS under

8 / 10 section 194Q; the Supplier (Vendor) need not to charge TCS u/s 206C (1H) on invoicing on or after 01.07.2021.

6. Vendor has to submit declaration in specified format for the

compliance of Section 206AB of Income Tax Act, 1961. In case of non submission of declaration; TDS will be deducted at higher rates (as

applicable) as per section 206AB.

7. GST Return: Supplier should file the GST returns for outward supplies in time. In case of any Input Credit Loss to SPM by way of their failure to files GST Returns in time, SPM reserves the right to withhold the payment of further supplies till production of evidence of filling of Returns.

## 6. Warranty

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

## 7. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of security paper mill payable at Narmadapuram. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

## 8. Generic

**Upload Manufacturer authorization:** Wherever Authorised Distributors are submitting the bid,

Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.

## Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity/restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and/or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents/clauses shall also be null and void. If any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations. Also, GeM does not permit collection of Tender fee / Auction fee in case of Bids / Forward Auction as the case may be. Any stipulation by the Buyer seeking payment of Tender Fee / Auction fee through ATC clauses would be treated as null and void.

This Bid is also governed by the General Terms and Conditions

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

**---Thank You---**



## **Item No. 10**

### **Specification for Temperature Sensor**

#### **Temperature Transmitter with RTD (Item No. 10)**

PT100 RTD with Fixed Thermowell & Head Mounted Temperature Transmitter as per below specification

#### **RTD Specification:**

Type: - Fixed thermowell  
Immersion length: - 390mm  
Extension tube length (M): - 00mm  
Thermowell diameter: - 11x2 mm  
Process connection: - G $\frac{1}{2}$ A  
Measuring insert: - 1xPt100 3-wire  
Sensor: - PT100, screw-in, resistance thermometer  
Class: - Class B (-70 ... 500°C)  
Thermowell material: - 1.4571 (316Ti), 500°C  
Connection head: - BUZ-H (ALU M20x1.5)  
Output Signal: 4...20 mA  
Limit Error: Class B  
Protection Class: IP65  
Medium: - Water/Steam/Pulp  
For probe dimensions a reference diagram is attached

#### **Temperature Transmitter Specification:**

Head Mounted Temperature Transmitter with HART programmable

- a) Temperature Transmitter Type: - Head Mounted
- b) Input signal:- Universal type ( RTD, Thermocouple,  $\Omega$ , mV)
- c) Warm up time less than 6 min
- d) Temperature Transmitter material Housing: - polycarbonate
- e) Explosion Protection: - without
- f) Storage Temperature:- -50 degc to 85 degc.
- g) Communication protocol: - HART, programmable, output signal 4 to 20mA.
- h) Display Connection: - Transmitter should have inbuilt option to connect display.
- i) Sensor connection type: - Two, Three, Four Wire Circuit.
- j) Electrical Protection: - should be available.
- k) Power supply:- Two wire loop power.

Make Voith /ABB or equivalent

## **Item No. 20**

### **Specification for Temperature Sensor**

#### **Temperature Transmitter with RTD**

PT100 RTD with Fixed Thermowell & Head Mounted Temperature Transmitter as per below specification

RTD Specifications:

Type: - Fixed thermowell  
Immersion length: - 100mm  
Extension tube length (M): - 145mm  
Thermowell diameter: - 11x2 mm  
Process connection: - G½A  
Measuring insert: - 1xPt100 4-wire  
Sensor: - PT100, screw-in, resistance thermometer  
Class: - Class B (-70 ... 500°C)  
Thermowell material: - 1.4571 (316Ti), 500°C  
Connection head: - BUZ-H (ALU M20x1.5)  
Output Signal: 4...20 mA  
Limit Error: Class B  
Protection Class: IP65  
Medium: - Water/Steam/Pulp

For probe dimensions a reference diagram is attached

#### **Temperature Transmitter Specification:**

Head Mounted Temperature Transmitter with HART programmable

- a) Temperature Transmitter Type: - Head Mounted
- b) Input signal:- Universal type ( RTD, Thermocouple,  $\Omega$ , mV)
- c) Warm up time less than 6 min
- d) Temperature Transmitter material Housing: - polycarbonate
- e) Explosion Protection: - without
- f) Storage Temperature:- -50 degc to 85 degc.
- g) Communication protocol: - HART, programmable, output signal 4 to 20mA.
- h) Display Connection: - Transmitter should have inbuilt option to connect display.
- i) Sensor connection type: - Two, Three, Four Wire Circuit.
- j) Electrical Protection: - should be available.
- k) Power supply:- Two wire loop power.

Make Voith /ABB or equivalent



## **Item No. 30**

### **Specification for Temperature Sensor**

#### **Temperature Transmitter with RTD**

PT100 RTD with Fixed Thermowell & Head Mounted Temperature Transmitter as per below specification

#### **RTD Specification:**

Type: - Fixed thermowell  
Immersion length: - 160mm  
Extension tube length (M): - 145mm  
Thermowell diameter: - 11x2 mm  
Process connection: - G $\frac{1}{2}$ A  
Measuring insert: - 1xPt100 3-wire  
Sensor: - PT100, screw-in, reduced tip, extension length  
Class: - Class B (-70 ... 500°C)  
Thermowell material: - 1.4571 (316Ti), 500°C  
Connection head: - BUZ-H (ALU M20x1.5)  
Output Signal: 4...20 mA  
Limit Error: Class B  
Protection Class: IP65  
Medium: - Water/Steam/Pulp  
For probe dimensions a reference diagram is attached

#### **temperature Transmitter Specification:**

Head Mounted Temperature Transmitter with HART programmable

- a) Temperature Transmitter Type: - Head Mounted
- b) Input signal:- Universal type ( RTD, Thermocouple,  $\Omega$ , mV)
- c) Warm up time less than 6 min
- d) Temperature Transmitter material Housing: - polycarbonate
- e) Explosion Protection: - without
- f) Storage Temperature:- -50 degc to 85 degc.
- g) Communication protocol: - HART, programmable, output signal 4 to 20mA.
- h) Display Connection: - Transmitter should have inbuilt option to connect display.
- i) Sensor connection type: - Two, Three, Four Wire Circuit.
- j) Electrical Protection: - should be available.
- k) Power supply:- Two wire loop power.

Make Voith /ABB or equivalent

Item No. 40

## Specification for temperature Sensor

### Temperature Transmitter with RTD

PT100 RTD with Fixed Thermowell & Head Mounted Temperature Transmitter as per below specifications

#### RTD Specification:

Type: - Fixed thermowell  
Immersion length: - 140mm  
Extension tube length (M): - 80mm  
Thermowell diameter: - 9X1mm Extn  
Process connection: - G½A /Conn M24x1.5mm/Extn M18x1.5  
Measuring insert: - 2xPt100 3-wire  
Sensor: - PT100, screw-in, reduced tip, extension lengthwith thermowell  
Class: - Class B (-70 ... 500°C)  
Thermowell material: - 1.4571 (316Ti), 500°C  
Connection head: - BUZ-H (ALU M20x1.5)  
Output Signal: 4...20 mA  
Limit Error: Class B  
Protection Class: IP65  
Medium: -Steam  
For probe dimensions a reference diagram is attached

#### temperature Transmitter Specification:

Head Mounted Temperature Transmitter with HART programmable

- a) Temperature Transmitter Type: - Head Mounted
- b) Input signal:- Universal type ( RTD, Thermocouple,  $\Omega$ , mV)
- c) Warm up time less than 6 min
- d) Temperature Transmitter material Housing: - polycarbonate
- e) Explosion Protection: - without
- f) Storage Temperature:- -50 degc to 85 degc.
- g) Communication protocol: - HART, programmable, output signal 4 to 20mA.
- h) Display Connection: - Transmitter should have inbuilt option to connect display.
- i) Sensor connection type: - Two, Three, Four Wire Circuit.
- j) Electrical Protection: - should be available.
- k) Power supply:- Two wire loop power.

Make Voith /ABB or equivalent



## Specification for temperature Sensor

### Temperature Transmitter with RTD

PT100 RTD with Fixed Thermowell & Head Mounted Temperature Transmitter as per below specification

RTD Specification:

Type: - Fixed thermowell  
Immersion length: - 400mm  
Extension tube length (M): - 145mm  
Thermowell diameter: - 11x2 mm  
Process connection: - G $\frac{1}{2}$ A  
Measuring insert: - 1xPt100 4-wire  
Sensor: - PT100, screw-in, resistance thermometer  
Class: - Class B (-70 ... 500°C)  
Thermowell material: - 1.4571 (316Ti), 500°C  
Connection head: - BUZ-H (ALU M20x1.5)  
Output Signal: 4...20 mA  
Limit Error: Class B  
Protection Class: IP65  
Medium: - Water/Steam/Pulp  
For probe dimensions a reference diagram is attached

### temperature Transmitter Specification:

Head Mounted Temperature Transmitter with HART programmable

- a) Temperature Transmitter Type: - Head Mounted
- b) Input signal:- Universal type ( RTD, Thermocouple,  $\Omega$ , mV)
- c) Warm up time less than 6 min
- d) Temperature Transmitter material Housing: - polycarbonate
- e) Explosion Protection: - without
- f) Storage Temperature:- -50 degc to 85 degc.
- g) Communication protocol: - HART, programmable, output signal 4 to 20mA.
- h) Display Connection: - Transmitter should have inbuilt option to connect display.
- i) Sensor connection type: - Two, Three, Four Wire Circuit.
- j) Electrical Protection: - should be available.
- k) Power supply:- Two wire loop power.

Make Voith /ABB or equivalent

**Item No. 60**

## **Specification for Temperature Sensor**

### **Temperature Transmitter with RTD**

PT100 RTD with Fixed Thermowell & Head Mounted Temperature Transmitter as per below specification

#### **RTD Specification:**

Type: - Fixed thermowell  
Immersion length: - 75mm  
Extension tube length (M): - 145mm  
Thermowell diameter: - 11x2 mm  
Process connection: - G½A  
Measuring insert: - 1xPt100 3-wire  
Sensor: - PT100, screw-in, reduced tip, extension length  
Class: - Class B (-70 ... 500°C)  
Thermowell material: - 1.4571 (316Ti), 500°C  
Connection head: - BUZ-H (ALU M20x1.5)  
Output Signal: 4...20 mA  
Limit Error: Class B  
Protection Class: IP65  
Medium: - Water/Steam/Pulp  
For probe dimensions a reference diagram is attached

#### **temperature Transmitter Specification:**

Head Mounted Temperature Transmitter with HART programmable

- a) Temperature Transmitter Type: - Head Mounted
- b) Input signal:- Universal type ( RTD, Thermocouple,  $\Omega$ , mV)
- c) Warm up time less than 6 min
- d) Temperature Transmitter material Housing: - polycarbonate
- e) Explosion Protection: - without
- f) Storage Temperature:- -50 degc to 85 degc.
- g) Communication protocol: - HART, programmable, output signal 4 to 20mA.
- h) Display Connection: - Transmitter should have inbuilt option to connect display.
- i) Sensor connection type: - Two, Three, Four Wire Circuit.
- j) Electrical Protection: - should be available.
- k) Power supply:- Two wire loop power.

Make Voith /ABB or equivalent

**Item No. 70**

**Specification for temperature Sensor**

**Temperature Transmitter with RTD**

PT100 RTD with Fixed Thermowell & Head Mounted Temperature Transmitter as per below specification

RTD Specification:

Type: - Fixed thermowell  
Immersion length: - 140mm  
Extension tube length (M): - 145mm  
Thermowell diameter: - 11x2 mm  
Process connection: - G $\frac{1}{2}$ A  
Measuring insert: - 1xPt100 3-wire  
Sensor: - PT100, screw-in, resistance thermometer  
Class: - Class B (-70 ... 500°C)  
Thermowell material: - 1.4571 (316Ti), 500°C  
Connection head: - BUZ-H (ALU M20x1.5)  
Output Signal: 4...20 mA  
Limit Error: Class B  
Protection Class: IP65  
Medium: - Water/Steam/Pulp  
For probe dimensions a reference diagram is attached

**temperature Transmitter Specification:**

Head Mounted Temperature Transmitter with HART programmable

- a) Temperature Transmitter Type: - Head Mounted
- b) Input signal:- Universal type ( RTD, Thermocouple,  $\Omega$ , mV)
- c) Warm up time less than 6 min
- d) Temperature Transmitter material Housing: - polycarbonate
- e) Explosion Protection: - without
- f) Storage Temperature:- -50 degc to 85 degc.
- g) Communication protocol: - HART, programmable, output signal 4 to 20mA.
- h) Display Connection: - Transmitter should have inbuilt option to connect display.
- i) Sensor connection type: - Two, Three, Four Wire Circuit.
- j) Electrical Protection: - should be available.
- k) Power supply:- Two wire loop power.

Make Voith /ABB or equivalent



## **Item No. 80**

### **Specification for temperature Sensor**

#### **Temperature Transmitter with RTD**

PT100 RTD with Fixed Thermowell & Head Mounted Temperature Transmitter as per below specification

RTD Specification:

Type: - Fixed thermowell

Immersion length: - 160mm

Extension tube length (M): - 100mm

Thermowell diameter: - 11x2 mm

Process connection: - G $\frac{1}{2}$ A

Measuring insert: - 1xPt100 4-wire

Sensor: - PT100, screw-in, resistance thermometer

Class: - Class B (-70 ... 450°C)

Thermowell material: - 1.4571 (316Ti), 500°C

Connection head: - BUZ-H (ALU M20x1.5)

Output Signal: 4...20 mA

Limit Error: Class B

Medium: - PVA (Polyvinyl Alcohol)

For probe dimensions a reference diagram is attached

### **Specification for Head Mounted Temperature Transmitter**

Head Mounted Temperature Transmitter with HART programmable

- l) Temperature Transmitter Type: - Head Mounted
- m) Input signal:- Universal type ( RTD, Thermocouple,  $\Omega$ , mV)
- n) Warm up time less than 6 min
- o) Temperature Transmitter material Housing: - polycarbonate
- p) Explosion Protection: - without
- q) Storage Temperature:- -50 degc to 85 degc.
- r) Communication protocol: - HART, programmable, output signal 4 to 20mA.
- s) Display Connection: - Transmitter should have inbuilt option to connect display.
- t) Sensor connection type: - Two, Three, Four Wire Circuit.
- u) Electrical Protection: - should be available.
- v) Power supply:- Two wire loop power.

Make Voith /ABB or equivalent

## **Item No. 90**

### **Specification for Electro Pneumatic Positioner**

Electro-Pneumatic Positioner, intelligent, configurable, with indicator and operator panel

#### **Technical Specification**

- a) Type: - Smart electro-pneumatic positioner for double acting pneumatic actuators.
- b) Application: - Pneumatic actuators position control as per Input signal.
- c) Mounting: - mechanical position indicator, for mounting to linear actuators.
- d) Positioner should have 2-line LCD Indicator and operating buttons for monitoring & configuration.
- e) Input signal: - 4-20 mA Dc
- f) Communication: - HART Communication
- g) Positioner Housing Material made of aluminum,
- h) Enclosure weather protection class: - IP65 Rating.
- i) Explosion Protection: - Without
- j) Output / Safe Position in case of an electrical power failure Double acting, fail safe.
- k) Connections: - Cable: Thread M20 x 1.5, air pipe: Thread G 1/4
- l) Supply Media: Air
- m) Input air supply pressure: - 1.4 to 6 Bar
- n) Air Consumption: - < 0.03 kg/h / 0.015 scfm
- o) Local pressure Gauge for Input supply and output air pressure.
- p) Retrofitting in the scope of supplier.
- q) Manifold need to be directly connected with positioner.
- r) Mounting Block: Ensure that Installation kit should match the existing model (VP500.V18345.202046000V ABB) /Voith H84.514376 ,There should not be any difference / deviation and should proper retrofit.
- s) Make: - Metso, Samson, ABB, Fischer, Flowserve or equivalent

**ANNEXURE-I****Declaration for Section 206AB of TDS under income tax Act, 1961***(to be submitted on Letter Head)*

Vendor Code: \_\_\_\_\_

M/s \_\_\_\_\_

PAN \_\_\_\_\_ GSTIN \_\_\_\_\_

I/We \_\_\_\_\_ (Legal Name and complete address) \_\_\_\_\_, PAN: \_\_\_\_\_ (PAN no) \_\_\_\_\_, TAN: \_\_\_\_\_ (TAN no.) \_\_\_\_\_, referring to the provisions of 206AB of the IT Act, 1961, hereby declare the following:-

Financial Year	Aggregate TDS & TCS credit in our name was Rs. 50,000 or more ("Yes/ No")	Income Tax Return ("ITR") Filed ("Yes/No")	E-filing Acknowledgment Number (15 digit - numeric) (Attach copy of acknowledgments)	Date of Filing of Return of Income u/s 139(1) (DD/MM/YYYY)	Linked PAN with Aadhaar number or will link it before 30 Jun 2021 (or any further date as may be notified by CBDT ("Yes / No")
<b>2019-20</b>					
<b>2020-21</b>					

We do hereby declare that to the best of my /our knowledge and belief what is stated above is correct, complete and is truly stated. In case there is a tax liability, interest or penal consequences which are levied on SPM on account of the false representation/ declaration, I/we undertake to fully indemnify SPM for the same.

FOR \_\_\_\_\_

Authorized Signatory

Date:

*Note: In case the vendor failed to comply with the above provisions, TDS shall be deducted at the higher of the following rates, namely: -*

- (i) at twice the rate specified in the relevant provision of the Act; or
- (ii) at twice the rate or rates in force; or
- (iii) at the rate of five per cent (5%).



**(To be submitted on the Letter Head)**

**DECLARATION**

We do hereby declare that,

1. We have not been blacklisted/debarred by BNPMIPL/BRBNMPL/SPMCIL or any Govt. Departments for participation in tenders. The information provided above is correct and true to the best of my knowledge and belief.
2. We do hereby declare that we have read and understood all terms and conditions of tender document including GIT, SIT, GCC, SCC, Technical Specification, Quality Control Criteria and confirm to abide to those conditions without any counter conditions.
3. We are accepting all the terms and conditions of the tender document without any deviation and withdraw all deviations if any.

Signature.....

Name.....

Designation.....

Date.....

Stamp of the Organization.....

**(To be submitted on the Letter Head)**

**DECLARATION  
(Refer GIT Clause No.3.5)**

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that M/s..... (Firm's name) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that M/s..... (Firm's name) fulfils at requirements in this regard and is eligible to be considered." (Where applicable, evidence of valid registration by the competent Authority shall be attached)"

I, the undersigned, declare that the item ..... originates in..... (Name of the country).

Signature.....

Name.....

Designation.....

Date.....

Stamp of the Organization.....

(To be submitted on the letter head of the manufacturing firm)

**SECTION XIV: MANUFACTURER'S AUTHORIZATION FORM**

To,

Security Paper Mill, Hoshangabad  
A Unit of Security Printing & Minting  
Corporation of India Limited  
(Wholly Owned by Govt. of India)  
Hoshangabad

Ref: Your Tender document No ....., dated .....

We,.....who are proven and reputable manufacturers of  
..... (Name and description of the goods offered in the tender) having  
factories at ..... hereby authorize Messrs .....  
(name and address of the agent) to submit a tender, process the same further and enter into a  
contract with you against your requirement as contained in the above referred tender enquiry  
documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs.....  
..... (name and address of the above agent) is authorized to submit a  
tender, process the same further and enter into a contract with you against your requirement  
as contained in the above referred tender enquiry documents for the above goods  
manufactured by us.

We also hereby extend our full warranty, as applicable as per clause 16 of the General  
Conditions of Contract read with modification, if any, in the Special Conditions of Contract for  
the goods and services offered for supply by the above firm against this tender document.

Yours faithfully,

.....  
.....

[Signature with date, name, and designation]

for and on behalf of Messrs.....

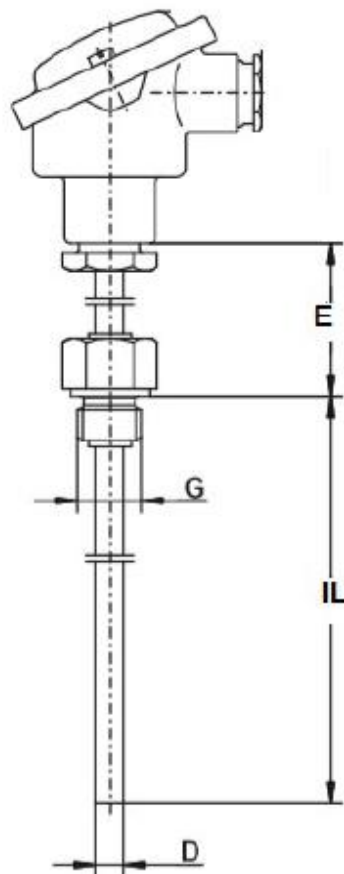
Name & address of the manufacturers

*Note: This letter of authorization should be on the letter head of the manufacturing firm and  
should be signed by a person competent and having the power of attorney to legally bind the  
manufacturer.*



**Reference Diagram for Item No. 10 to 80**

**RTD temperature probe dimensions**



**Abbreviations:**

E = Extension Tube Lenth  
IL = Immersion Lenth  
D= Thermowell Diameter (MM)  
G = Process Connection

---

**Sample Drawing**