
	Gujarat State Electricity Corporation Limited	
	Wanakbori Thermal Power Station, Ta: Galteshwar, Dist: Kheda -388239 Ph: 91-2699-235522 Fax: 91-2699-235607 Email: wtps.ceg@gebmil.com Web site: www.gsecl.in	
	CIN: U40100GJ1993SGC019988 AN ISO-9001:2015&14001:2015 OHSMS 45001:2018 Certified Power Plant	

TECHNICAL BID

Subject: Supply of Pressure & Differential pressure transmitters for Unit- 1 to 3, WTPS.

Reference No.:- WTPS/S/TECH/RFQ – 76549/IMD-1

Sr. No.	Description of Material	HSNCODE	GST Rate With Cess If Any IN%	Qty. Reqd.	Unit
1	PRESSURE TRANSMITTER RANGE 0 KG/CM2 TO 180 KG/CM2			2	Number
2	PRESSURE TRANSMITTER, MAKE : ABB, RANGE : 0.8 TO 80 BAR, SUPPLY : 10.5 -42VDC, O/P : 4-20MA DC			1	Number
3	PRESSURE TRANSMITTER,0 TO 50 BAR,ABB,CODE-264HSQSBA1L1B1C6			2	Number
4	PRESSURE TRANSMITTER,ROSEMOUNT,0 TO 10 BAR,MODEL NO-3051TG2A2B21AB404			1	Number
5	PRESSURE TRANSMITTER,0 TO 7 BAR,ABB,CODE-264NSPSBA1L1B1C6			1	Number
6	PRESSURE TRANSMITTER,ROSEMOUNT,0 TO 2 BAR,3051TA1A2B21BQ4A9258			2	Number
7	PRESSURE TRANSMITTER, MAKE: SIEMENS, MODEL NO. 7MF4433-1DA02-1AC6-Z, RANGE: 2.5-250 MBAR			1	Number
8	ABSOLUTE PRESSURE TRANSMITTER, RANGE: 0 TO 1.3 BAR			1	Number
9	MODEL: PRESSURE TRANSMITTER, MAKE: ROSEMOUNT, MODEL NO, 2088G4S22A1Q4 , RANGE: 0 TO 250 BAR			1	Number
10	PRESSURE TRANSMITTER RANGE : 0 TO 63 BAR.			1	Number
11	DPT : 0-2.5 KG PER SQCM			1	Number

12	DIFFERENTIAL PRESSURE TRANSMITTER RANGE 0 KG/CM2 TO 10 KG/CM2			2	Number
13	PRESSURE TRANSMITTER RANGE -250 MMWCL TO +250 MMWCL, PRESSURE TRANSMITTERS			2	Number
14	PRESSURE TRANSMITTER RANGE 0 KG/CM2 TO +6 KG/CM2, PRESSURE TRANSMITTERS			1	Number
15	PRESSURE TRANSMITTER RANGE 0 MMWCL TO 1600 MMWCL			2	Number
16	PRESSURE TRANSMITTER RANGE -400 MMWCL TO +100 MMWCL, PRESSURE TRANSMITTERS			1	Number
17	DP TRANSMITTER, MAKE: YOKOGAWA, MODEL: EJA110A, RANGE: 0-1.6 KG/CM2			1	Number
18	DIFFERENTIAL PRESSURE TRANSMITTER. RANGE: 0 TO 60 MMWC			2	Numbers
19	DIFFERENTIAL PRESSURE TRANSMITTER. RANGE: 0 TO 12000 MMWC			2	Numbers
20	DIFFERENTIAL PRESSURE TRANSMITTER 2-WIRE, SMART TYPE RANGE; 0 TO 15000 MMWC			2	Number
21	5 VALVE MANIFOLD WITH VENT PLUG A 105 BODY CD PLATDED TRIM SS 316 WITH PR. TESTING : 9000 PSI OTHER MECH. DIMENSION AS PER DRG. NO. WTPS/ST-III/002/08 DTD. 27-11-2000			15	Number

❖ **Technical specifications:**

The successful bidder is requested to supply material as per below specified instructions.

General specification for Item no: 1 to 20

- 1) Make :ABB/EMERSON/ROSEMOUNT/YOKOGAWA/ENDRESS& HAUSER
- 2) Model no. : Bidder to state
- 3) Type of Transmitter :Micro processor based 2 wire (loop powered), smart type, indicating (LCD display)
- 4) Accuracy : Minimum +/- 0.075% of span or Better
- 5) Output signal range : 4-20 mA DC (Analog) along with superimposed digital signal (based on HART protocol)
- 6) Turn down ratio : vacuum/very low Pressure: 10:1 and other applications- 60:1
- 7) Zero span drift +/-0.015% per degree C at max span +/-0.11% per degree C at min span
- 8) Load impedance : 500 ohm (min)

- 9) Stability: $\pm 0.1\%$ of calibrated span for six months for ranges up to & including 70 Kg/cm²
 $\pm 0.25\%$ of calibrated span for six months for ranges more than 70 Kg/cm²
- 10) Housing : IP-65
- 11) Over pressure : 150% of max operating pressure
- 12) Electrical Connection : Plug & socket type / 02 Nos. 1/2 inch NPT female for electrical connections and with blind plug
- 13) Process connection :
 1/2 inch NPT (F) For item no. 01 to 07 & 09 to 21) &
 1/2 Inch BSP(M) (For item Sr no.08)
- 14) Adjustment/ calibration/maintenance Continuous, tamper proof, Remote as well as manual adjustability from instrument with zero suppression and elevation facility.
- 15) Accessories : 2-way manifold of SS316 for pressure transmitters & 5-way manifold of SS316 for DP transmitters with material class in respective of range
- 16) Diagnostics: Self Indicating feature
- 17) Power supply : 24V DC
- 18) Repeatability : $\pm 0.05\%$ of span or better
- 19) Hand held calibration: Yes
- 20) Measuring Pressure type :
 Gauge Pressure (for item Sr no. 01 to 7 & 09 to 21)
 Absolute Pressure (for item Sr no.08)
- 21) Mounting Bracket : 304 SST 2-inch pipe mounting, flat type (for horizontal piping)

Transmitter Range wise details are as mentioned below.

- 1) **Item no 01:** Pressure transmitter with 2-way manifold for Pressure Live steam, Pressure upstream turbine blading, live steam pressure overload line.
 Calibration range: 0 to 180 bar
- 2) **Item no 02:** Pressure transmitters with 2-way manifold for Reheat steam pressure, Extraction steam Pressure no.07
 Calibration range: 0 to 80 bar
- 3) **Item no: 03** Pressure transmitter with 2-way manifold for HRH PR, Pressure extraction no.5 & 6, Pr. Upstream IP turbine blading, Pr extraction gland steam, Pr. Auxiliary steam to gland steam,
 Calibration range: 0 to 50 bar
- 4) **Item no: 04** Pressure transmitter with 2-way manifold for Pressure extraction no. 3 & 4
 Calibration range: 0 to 10 bar
- 5) **Item no: 05** Pressure transmitter with 2-way manifold for Pressure extraction no.2, LP turbine inlet Pressure
 Calibration range: 0 to 5 bar
- 6) **Item no: 06** Pressure transmitter with 2-way manifold for Pressure in lube oil tank; LPT exhaust pressure; Suction Pressure of control oil pump unit 1/2
 Calibration range: 0 to 1.2 bar
- 7) **Item no: 07** Pressure transmitter with 2-way manifold for Pressure at gland steam sealing system
 Calibration range: -150 mbar to 150 mbar
- 8) **Item no: 08** Pressure transmitter with 2-way manifold for Vacuum pressure transmitter

Calibration range: 0 to 1.2 bar (abs)

- 9) **Item no: 09** Pressure transmitter with 2-way manifold for JOP downstream pressure
Calibration range: 0 to 250 bar
- 10) **Item no: 10** Pressure transmitter with 2-way manifold for Pressure safety system, downstream pressure of control oil filter, upstream pressure of control oil filter
Calibration range: 0 to 60 bar
- 11) **Item no: 11** Differential Pressure transmitter with 5-way manifold for measurement of DP at Lube oil filter
Calibration range: 0 to 2.5 bar
Static Pressure/Max working Pr: Max working Pr. 210 bar
- 12) **Item no: 12** Differential Pressure transmitters with 5-way manifold for measurement of DP at control oil filter
Calibration range: (0 to 10 KG/CM2)
Max Differential pressure : 22.6 KG/CM2
Max. operating pressure: 250 KG/CM2
- 13) **Item no: 13** : Pressure transmitter with 2-way manifold for Furnace Pressure measurement range: (-250 mmwc to +250 mmwc)
Calibration range: (-200 mmwc to 200 mmwc)
- 14) **Item no: 14** : Pressure transmitter with 2-way manifold for H2 pressure measurement in generator casing.
Calibration range: (0 KG/CM2 to 6 KG/CM2)
- 15) **Item no: 15** : Pressure transmitter with 2-way manifold for PA header pressure measurement
Calibration range: (0 to 1600 mmwc)
Max. working pressure: 1150 mmwc
- 16) **Item no: 16** : Pressure transmitter with 2-way manifold for PA header pressure measurement
Calibration range: (-400 MMWCL TO 0 MMWCL)
- 17) **Item no: 17** : Differential Pressure transmitter with 5-way manifold for H2 & seal oil DP measurement.
Calibration range: (0 to 1.6 KG/CM2)
Max Differential pressure : 22.6 KG/CM2
Max. operating pressure: 250 KG/CM2
- 18) **Item no: 18** : Differential Pressure transmitter with 5-way manifold for Primary & secondary air flow measurement.
Calibration range: (0 to 60 mmwc)
Static pressure: 0-1600 mmwc
- 19) **Item no: 19** : Differential Pressure transmitter with 5-way manifold for SH spray flow measurement.
Calibration range: (0 to 12000 mmwc)
Max. operating pressure: 154 KG/CM2

- 20) **Item no: 20** : Differential Pressure transmitter with 5-way manifold for RH spray flow measurement.
Calibration range: (0 to 15000 mmwc)
Max. operating pressure: 83 KG/CM2
- 21) **Item no: 21** : 5 VALVE MANIFOLD WITH VENT PLUG A 105 BODY CD PLATDED TRIM SS 316
1. Body Material: SS 316
2 Process Connection : 1/2" NPT (F)
3.Gland Packing : Teflon
4 Pressure Rating : 6000 psi
5. Other fittings: Spindle SS 316, Handle C.S. Plated Check nut SS 316, Washer SS 316, Drain plug 1/4 inch NPT SS 316.
6. Configuration: - 2 isolation, 1 equalizer, 2 vent/ drain
7. Mouting: Remote type(pipe-to- pipe)
8. temp range: 600 degC

❖ **Instructions for Bidder**

- 1) Party has to give warrantee for supplied items for a period of 18 months from the date of supply or 12 months from date of commissioning whichever is earlier.
- 2) Party has to submit Individual Test/Calibration Certificate for each transmitter is required.
- 3) Party has to offer only specified and reputed manufacturer make as above mentioned with necessary technical leaflets / catalogues, mechanical dimensional drawings and clear technical specifications.
- 4) Suppliers other than OEM have to submit purchase proof from OEM or Authorization along with offer.
- 5) Party shall have to supply transmitter strictly as per technical specifications & duly calibrated as per specification mentioned.

**Chief Engineer (C&O)
GSECL, WTPS**

DECLARATION FORM

ON LETTER HEAD OF SUPPLIER

Subject: Supply of Pressure & Differential pressure transmitters for Unit- 1 to 3, WTPS.

Reference No.:- WTPS/S/TECH/RFQ – 76549/IMD-1

1. I/We hereby declare that I/We have carefully & thoroughly studied the entire tender placed on the website and General terms & conditions, technical specification, PQR and other documents of the tender mentioned under reference along with the Commercial terms and conditions.
2. I/We hereby confirm and certify that the offer submitted by me/us is strictly in accordance with the GSECL's Tender specifications, Guaranteed Technical Particulars and drawing as mentioned in the Tender Specifications. There is no commercial or Technical deviation (except the deviations shown in respective Annexure-12 of Technical Deviations of this tender document) in the offer from the Board's Tender Specification. I undertake to abide by the GSECL's Technical specification / Guaranteed Technical Particulars / Drawing, I undertake to supply materials strictly as per the GSECL's Technical specification / Guaranteed Technical Particulars / Drawing, even if any technical deviations are mentioned by me. I also undertake to abide by all commercial conditions of the GSECL, including delivery schedule. I have submitted all the annexure-1 to 15, form of integrity pact etc along with the technical Bid dully filled along with all the details"
3. I / We, hereby declare that our Technical Bid is strictly in line with the Tender specifications (except the deviations shown in Annexure-12 of Technical Deviations of this tender document).
4. I / We also agree that additional conditions / deviations, if any, found in the Commercial terms & conditions (except the deviations shown in Annexure-12 of Technical Deviations of this tender document) our offer shall be out rightly rejected without assigning any reason thereof.
5. I/We hereby abide to execute the contract agreement & submitted the same along with the acceptance of LOI and the same will be acceptable to me/us.
6. I/We hereby accept and confirm that any dispute on this regard shall not be entertained by the tender inviting authority.
7. The full value of the "Earnest Money Deposit" paid herewith should be absolutely forfeited to the Corporation, should I/ we do not deposit the specified amount of specified Security Deposit within 10 Days from receipt of the Letter of Intent.
8. If, I fail to submit all required documents with application or tender copy (in each tender) then my tender will be cancelled, which is binding to me.
9. I/We _____
authorized signatory of M/s _____ here by
certify that M/s _____ and their
proprietor / any partner / any directors of the firm is not stop deal and / or banned for business
dealing and / or black listed by GUVNL and / or their any subsidiary company viz. GSECL /
GETCO / DGVCL / MGVCL / UGVCL / PGVCL as well as Government and / or Semi
Government company / department.
10. We here by confirm that we have not stake in one or more other agencies / bidders who are
participating in same tender and if it is found that the submitted information / declaration are
wrong in the tender / enquiry as stated in tender terms, than we will be disqualified
automatically & it will be accepted to us. EMD / SD will be forfeited. More over if GSECL shall
take stern action including stop dealing with our firms which is also accepted to us

Seal of the Firm

Place:

Date:

Signature of the Tenderer with Designation.

[On Company's Letter Head]

Annexure – 13

(Require for Price Justification, if Necessary)

(UNDERTAKING IN REGARD TO QUOTED PRICE)

(All Bidders will have to furnish the following undertaking duly filled in, for all the quoted items/works of the tender along with online Technical Bid)

Ref.: Tender No..... / Gem Bid. No.

We, the undersigned, hereby declare and undertake that we have not accepted or executed any Letter of Acceptance (LOA) or Purchase Order (PO) at a unit ex-works price/any work at rate lower than the rate offered in this tender in any station of GSECL/GUVNL/ & Subsidiaries/ CPSU / SPSU/IPP etc. during the period from six (6) months prior to two (2) months after the bid submission date of this tender.

We also understand that LOA / Purchase Order placed by any station of GSECL/GUVNL Subsidiaries/ CPSU/SPSU/IPP etc. on the basis of above undertaking shall not be considered as 'offered' price for the tender items in subsequent tender, if it is not within period mentioned above.

I/We accept above undertaking.

Seal of the Firm

**Signature of the Tenderer
With Designation**

Place:

Date:

<On the letterhead of the vendor/ payee>

To,

Date : _____

**Subject : Declaration for TDS/TCS under the Income Tax Act (IT Act)
w.e.f.01/07/2021**

Reference : Provisions of S. 206AB/ 206CCA/139AA of the IT Act

Dear Sirs,

This is with reference to the determination of appropriate Tax deduction at source (TDS) or Tax collected at source (TCS) as per the provisions of the Act i.e. Section 206AB/ 206CCA/139AA of the IT Act. In relation to the said provision of the Act: I / We, having status of <<mention status i.e. Individual/Company/ Firm etc.>> hereby declare and confirm that: -

- a) I/We have<<mention PAN>>Permanent Account Number (PAN) under the IT Act.(Copy of PAN card is enclosed herewith.)
- b) I/We have linked / will be linking Aadhar number with PAN as required under section 139AA (2) read with Rule 114AAA.latest by 30th June 2021.
- c) I/We have/have not filed income tax returns (ITR) for two previous years immediately prior to the year in which tax is required to be deducted and for which last date of filing of income tax return is expired u/s139(1) of the Act.

I/ We am/ are hereby attaching a copy of acknowledgment of ITR filed for any one of previous two financial years of which due date u/s139(1) is expired, as proof of filing ITR. *(Strike out full sentence if not filed IT returns)*

- d) The aggregate amount of Tax Deductible at Source (TDS) and Tax Collectible at Source (TCS) exceed/don't exceed Rs. 50,000 or more in each of the two aforesaid previous years in my/our case *(Vendor has to provide the extract of its Form 26AS if copy of ITR is not provided as above)*
- e) I/ We shall, indemnify the Company for any consequences arising out of any acts of commission or omission including incorrect declaration basis which the Company would act upon.
I/We agree that Company shall determine applicability of section 206AB/206CCA of the IT Act based on the aforesaid declaration/documents filed by me/us and would deduct TDS/TCS accordingly. The decision of Company shall be final and acceptable to me/us. Strikeout whichever is not applicable.

Thanking you,
Yours faithfully,

<<Signature>>

< Full Name of Vendor & seal >