

FORM TO BE FILLED BY IO WHILE CONVENING PRE-BID MEETING OF TSC.

File No. 14-VIII/SP(50-OTE)25PB/

Date: 22-Sep-2026

Pre-bid Meeting

Name of Indentor. _____ SUNIL PRASAD _____

Indent No. _____ 907 _____

Item Description _____ Set of Antennas _____

No. of Budgetary Quotes __02_____

(1) a pre-bid meeting of TSC was held on 22-Sep-2026.

(2) Following queries were raised by participating Bidders:

Name of the Firm	Queries Raised	Remarks, if any
Technocomm Instruments Pvt. Ltd	NIL	NIL

Indentor's recommendation

1. The comments, as received from bidders during PBC, and our response is as follows:

Tender Specification and its number	Comment of bidder	Response of Indentor (Accepted/ Not accepted)	Revised specification (If any)	Justification for non-acceptance
NA	NA	NA	NA	NA

Final recommended specifications are as attached at Annexure 1 and signed by I/O:

Corrigendum to Tender may be issued/ may not be issued.

Recommended Revised Date of Tender submission (if any) is __NA_____

The specifications are generic and broad based.

Submitted to TSC for necessary approvals.

FORM TO BE USED BY TSC FOR FINALISING PRE-BID MINUTES

File No. 14-VIII/SP(50-OTE)25PB/

Date: 22-Sep-2026

TSC Minutes

Based on the Pre-bid meeting and recommendation of I/O, following changes have been made in the specifications:

Original Specifications	Final Specifications
No Change	NA

The file is forwarded to Purchase Section for uploading the final specifications and TSC minutes on the website and CPPP Portal.

Declaration: We hereby declare that we have no conflict of interest with any of the bidder in this tender

Technical Specification of Set of Antenna

Technical Specifications:

1. Log Periodic Antenna

- a. Frequency Range : 290 MHz – 2 GHz
- b. Antenna Factor : Between 12 to 35 dB/m
- c. Antenna Gain : Between 6 to 7 dBi
- d. Maximum Power (Continuous) : >950 Watts
- e. Average Beamwidth : Between 40° to 50°
- f. Impedance : 50Ω
- g. Radiated Field (Maximum) : Between 150 to 250 V/m
- h. VSRW : Between 1.40 to 2.5
- i. Connector : N-Type
- j. Weight : < 0.70 kg
- k. Dimension (LxWxH) : < 58 cm x 52 cm x 7 cm

2. Biconical Antenna

- a. Frequency Range : 20 MHz – 330 MHz
- b. Antenna Factor : Between 8.0 to 22.0 dB/m
- c. Antenna Gain : Between -23 to 3.0 dBi
- d. Maximum Power (Continuous) : ≥ 1 Watts
- e. Impedance : 50Ω
- f. VSRW : Between 1.8 to 2.2
- g. Connector : N-Type (F)
- h. Weight : < 2.0 kg
- i. Dimension (WxH) : < 135 cm x 74 cm

3. Active Monopole Antenna

- a. Frequency Range : 9 kHz – 60 MHz
- b. Antenna Factor : 0 dB/m
- c. Sensitivity : 4 to 6 dBμV/m @ 10 kHz, -25 to -15 dBμV/m @ 1 MHz
- d. Dynamic Range : 95 to 98 dB @ 10 kHz, 120 to 125 dB @ 1 MHz
- e. Saturation : Between 85 to 90 dBuV/m
- f. Connector : BNC (F)
- g. Input Power : 10 VDC
- h. Weight : < 2.3 kg
- i. Dimension (WxHxD) : < 50 cm x 50 cm x 110 cm

4. Passive Loop Antenna

- a. Frequency Range : 20 Hz – 1 MHz
- b. No of Turns : Between 33 to 39
- c. Resistance : 10Ω
- d. Inductance : Between 330 to 350 μH
- e. Connector : BNC (F)
- f. Shielding : Electrostatic
- g. Weight : < 100 grams
- h. Loop Diameter : < 15 cm

5. Double Ridge Guide Horn Antenna

- a. Frequency Range : 700 MHz – 18 GHz
- b. Antenna Factor : Between 20 to 45 dB/m
- c. Antenna Gain : Between 10 to 15 dBi
- d. Maximum Power (Continuous) : Between 290 to 310 Watts

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|--------------------------------|----------------------------|
| e. Peak Power | : Between 490 to 510 Watts |
| f. Average Beamwidth (F-Field) | : Between 45° to 50° |
| g. Average Beamwidth (H-Field) | : Between 25° to 35° |
| h. Impedance | : 50Ω |
| i. Radiated Field (Maximum) | : Between 190 to 210 V/m |
| j. VSRW | : Between 1.0 to 2.0 |
| k. Connector | : N-Type (F) |
| l. Weight | : < 2 kg |
| m. Dimension (WxHxD) | : < 30 cm x 15 cm x 25 cm |
- 6. Double Ridge Guide Horn Antenna**
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|-------------------------------|--------------------------|
| a. Frequency Range | : 18 GHz – 40 GHz |
| b. Antenna Factor | : Between 35 to 45 dB/m |
| c. Antenna Gain | : Between 12 to 25 dBi |
| d. Maximum Power (Continuous) | : Between 8 to 12 Watts |
| e. Maximum Radiated Field | : Between 140 to 160 V/m |
| f. Impedance | : 50Ω |
| g. VSRW | : Between 1.0 to 1.5 |
| h. Connector | : 2.9 mm (F) |
| i. Weight | : < 100 grams |
| j. Dimension (WxHxD) | : < 5 cm x 5 cm x 10 cm |
- 7. RF Current Probe**
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|-------------------------------------|------------------------------|
| a. Frequency Range | : 20 Hz – 20 MHz |
| b. Transfer Impedance | : Between -65 to -25 dB ohms |
| c. Max Primary Current (DC – 60 Hz) | : Between 790 to 810 Amps |
| d. Max Primary Current (400 Hz) | : Between 390 to 410 Amps |
| e. Max Primary Current (CW) | : Between 210 to 230 Amps |
| f. Max Primary Current (Peak) | : Between 4990 to 5010 Amps |
| g. Connector | : N-Type (F) |
| h. Weight | : < 800 grams |
| i. Aperture | : < 5 cm |
- 8. RF Current Probe**
- | | |
|-------------------------------------|------------------------------|
| a. Frequency Range | : 10 kHz – 150 MHz |
| b. Transfer Impedance | : Between -25 to +10 dB ohms |
| c. Max Primary Current (DC – 60 Hz) | : Between 790 to 810 Amps |
| d. Max Primary Current (400 Hz) | : Between 440 to 460 Amps |
| e. Max Primary Current (CW) | : Between 3 to 5 Amps |
| f. Max Primary Current (Peak) | : Between 90 to 110 Amps |
| g. Connector | : BNC (F) |
| h. Weight | : < 800 grams |
| i. Aperture | : < 5 cm |
- 9. Accessories**

Compatible Connectors, Low Loss-Cables, Adapter, Antenna Tripod, Carrying case

Antennas features:

1. Antennas should have individual calibration at distance of 1, 3 and 10 meters.
2. Antennas calibration polarization should be Horizontal.
3. Antennas should have compliance with FCC, MIL-STD standards.

Acceptance Test for Antennas:

1. Supplier shall show the rated characteristics of the supplied antennas at CSIR-NPL during delivery and acceptance test.

Delivery Schedule: 10 weeks from the date of PO.

Delivery Destination: CSIR-NPL Stores, New Delhi

Note:

1. Bidder shall quote for full items. Partial quote shall not be accepted.
2. Bidder shall provide compliance against each technical specifications of respective antennas.
3. Bidder shall provide Certificate of Conformity (CoC) or Calibration Certificates of applicable items.