

NTPC Limited
(A Government of India Enterprise)

Tender Enquiry No. 9900238448

Bill of Materials

Delivery Address:

Talcher Super Thermal Power
P.O. DEEPSHIKHA
ANGUL
Odisha
759147
India
Tel : 06760 243270/247270 Fax: 06760 243204/243232

Item	Material Code	Description	UoM*	Total Quantity	Delivery Date
00010	M9494550035	SOLAR RADIATION SENSOR WITH 10 MTR.CABLE	NO	3.000	

(UOM Legends :- NO - Number)

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TECHNICAL DATA SHEET

00010 - M9494550035

Specification

PYRANOMETER [WITHOUT SHADING RING/BALL) FOR MEASUREMENT OF GLOBAL/DIFFUSE RADIATION,230VAC,O/P:0-20MA/4-20MA/0-10V

Make- Kipp & Zonen Sensor CMP10-A

Pyranometer shall be Secondary Standard Pyranometers as per ISO 9060 for measuring solar radiation and with following Technical Requirements:

Sl.No	Details	Values
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|-----|-------------------------------------|-----------------------------------|
| 1. | Principle | Thermopile |
| 2. | Spectral Response. | 310 to 2800 nm |
| 3. | Sensitivity | Min 7 micro-volt/w/m ² |
| 4. | Time response (95%) | Max 15 s |
| 5. | Non linearity | ±0.5% |
| 6. | Temperature Response | ±2% |
| 7. | Tilt error | : < ±0.5%. |
| 8. | Zero offset thermal radiation | ±7 w/m ² |
| 9. | Zero offset temperature change | ±2 w/m ² |
| 10. | Operating temperature range | 0 deg to +80 deg. |
| 11. | Uncertainty (95% confidence Level) | Hourly- Max-3%, Daily-Max-2% |
| 12. | Non stability | Max ±0.8% |

One set of Pyranometer consist of following items

Sl	Description	Qty
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- | | | |
|---|---|-----|
| 1 | METEON Irradiance Meter and Data Logger (part no 0365910) | 1no |
| 2 | CMP10 Pyranometer with 10 m cable (part no 0379900-002) | 1no |
| 3 | Base plate for extended purlin mounted pyranometer with mounting accessories (Part noBKC-PUR-004) | 1no |

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ITEM DATA SHEET

Material Code	Item Text
M9494550035	1. Warranty/ Guarantee: Kipp & Zonen B.V,The Netherlands standard warranty for 24 month (60 months for Pyranomter) towards manufacturing defect from the date of supply . 2. Test/Calibration certificate to be provided along with supply.

NOTE: Please consider only long text for description of the item. Short text may please be ignored.