

NTPC LTD  
CC-OS  
EOC NOIDA

**Sub: Standardisation Criteria for Source Standardisation for Supply of " Guided Wave Radar Level Type Transmitter"**

A)	<b>MEG DETAILS</b>		
	1.0	<b>SSG NO</b>	<b>94SSG-56</b>
	2.0	<b>SSG DESCRIPTION</b>	<b>Guided Wave Radar Type Level Transmitter</b>
	3.0	<b>RESPONSILITY CENTRE</b>	<b>CC/OS</b>
B)	<b>Standardisation Criteria:</b>  The applicant should be a manufacturer of the item(s), meeting the reference technical specification provided in the Portal.  The applicant has supplied to at least two different clients during last 5 years reckoned as on date of submission of application along with proof of execution of the orders. Certificates from clients in NTPC specified form for completion of satisfactory operation corresponding to the submitted orders copies, for proposed item for one year at any Power Generation Plant / Petroleum Refinery, Steel Plant & Fertiliser plant.		
C)	<b>Other Documents to be submitted:</b>  The following documents are required to be submitted by the applicants applying for enlistment: -  1. At least two executed Purchase Orders of similar items during previous five years from the date of application received from Power Generation Plant / Petroleum Refinery, Steel Plant & Fertiliser plant. Performance certificate from the concerned buyer/s in support of successful execution of supply against the POs is to be submitted.  2. Audited balance sheet including Profit & Loss statement for the previous three completed financial years reckoned from the date of application. In case the audited documents are not ready / available, then certified copy by a registered practicing Chartered accountant may be submitted.  3. NSIC / SSI / MSME registration certificate / BIS license / ISO certificate / Certificate of registration from the concerned excise department / any other statutory document as a proof of being manufacturer of the required material.  4. Any other documents in addition to the above which the applicant wants to submit.		
D)	<b>Technical Specification:</b>  As per Annexure		

**STANDARD TECHNICAL SPECIFICATION FOR GUIDED WAVE RADAR  
TYPE LEVEL TRANSMITTER**

Sl. No.	Particulars	Essential/Minimum Requirements
1	Type	Microprocessor based 2 wire (loop powered) type, HART protocol compatible Guided wave radar transmitter.
2	Principle	TDR (Time domain reflectometry)
3	Probe Type & Material	(i) Coaxial probe of SS316/316L. If required, probe shall be suitable for overfill prevention.  (ii) Rod/cable type probe of SS316 can be used for applications wherever coaxial probe is not suitable.
4	Output signal	4-20 mA DC along with superimposed digital signal (based on HART protocol), suitable for over fill prevention.
5	Accuracy	+/- 0.5% of calibrated span or minimum 5mm.
6	Power supply	24 VDC +/- 10%.
7	Housing	Weather proof as per IP-65, metallic housing with durable corrosion resistance coating.
8	Adjustment/ calibration	Using hand held HART calibrator.
9	Zero & span adjustment	Continuous, temper proof, remote as well as manual adjustability from instrument. It should be possible to calibrate the instrument without any level in the tank/sump etc.
10	Display	Integral digital display.
11	Load Impedance	500 ohms (minimum).

12	Electromagnetic compatibility	Shall meet EN 61326-1 (1997) and AmdtA1, class A equipment/EN 50081-2 & EN 50082-1 & EN 50082-2
13	Mounting	Side Mounting / Top Mounting
14	Accessories	<p>(i) External cage and other mounting accessories to be provided for side mounting.</p> <p>(ii) Where ever top mounting is required, all mounting accessories, stilling well (as required) etc., shall be provided.</p> <p>(iii) All weather canopy shall be provided for protection from direct sunlight and direct rain for open locations.</p>

**Letter Head of the End User with Full Address**

***Performance Certificate***

Ref. No.

Date:

***To whom it may concerned***

*Name of the Item:*

*Make:*

*Model:*

*Order No. & Date:*

*Date of Delivery:*

*Date of Installation / Date of start of use:*

*Exact Application / Service:*

*Duration of Instrument is in Service from ..... to.....*

*Name of the Power Plant/ Process Industry, Location & Address:*

*This is to certify that the ..... (Name of the item), supplied by  
M/S..... is in service for application as detailed above for the last .....years  
and its performance is satisfactory without any major problem.*

Signature:

Office Seal:

Name:

Designation:

Official Phone:

Mobile:

Email Address: