

Specification for Radar Type Level Transmitter

Tag No 11-LT-4001 (Please refer the technical specifications attached along with the product and synchronize accordingly)

TAG NO	1	11-LT-4001		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
	2	Transmitter make	Vendor to specify (Please specify)	
	3	Transmitter model	Vendor to specify (Please specify)	
SENSOR	2	Type	Wave guide type	
	3	Response Time	< 1 s or better	
	4	Linearity	Linearity protocol (3-point)	
	8	MOC of probe	SS361/SS316L	
	6	Operating temp effect	+/-0.01%of probe length	
	7	Connection	As per table attached	
	8	Orientation	Side by side	
	9	Accuracy	+/- 3 mm	
Transmitter	10	Function	Indicate and transmit	
	11	Output	4-20 ma HART (2 wire) , SIL 2	
	12	Electric cable entry	1/2"NPTF	
	13	Power supply	24VDC	
	14	Enclosure	WP-IP65	
	15	Electrical area classification	IEC zone 2 GRIIA/IIB	
	16	Intrinsically safe	Required	
	17	Gauge head material	Al , dual compartment	

TAG NO	1	11-LT-4001		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
Local indicator	18	Type	Digital , 4 line	
	19	Location	Integral , local push button for configuration	
	20	Enclosure	WP-IP65	
Certification	22	Statutory	PESO/CCE required	
Transmitter Connection	23	Size	3"	
	24	Rating	300	
Centre To Centre (Inst range)	25	470	mm	
Probe Length	26	940	mm	
Process condition	26	Fluid	Upper fluid propylene vapour (state gas) Lower fluid oil (State Liquid)	
	26	Temperature DEG C	78(Design (-) 45,130	
	26	Pressure Kg/cm2G	17.8 (Design 22.5)	
	26	Operating density	947.14	

NB: VENDORS HAVE TO TAKE INTO CONSIDERATION THE ABOVE TECHNICAL POINTS AND QUOTE ACCORDINGLY. THIS DOCUMENT HAS TO BE FILLED UP BY THE VENDOR AND UPLOAD ALONG WITH THE BID.

Specification for Radar Type Level Transmitter Tag No 51-LT-1401, 51-LT1402B (Please refer the technical specifications attached along with the product and synchronize accordingly)				
TAG NO	1	51-LT-1401, 51-LT1402B		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
	2	Transmitter make	Vendor to specify	
	3	Transmitter model	Vendor to specify	
SENSOR	4	Type	Wave guide type	
	5	Response Time	< 1s or better	
	6	Linearity	Linearity protocol (3-point)	
	8	MOC of probe	SS361/SS316L	
	9	Operating temp effect	+/-0.01%of probe length	
	10	Orientation	Side by side	
	11	Accuracy	+/- 3 mm	
Transmitter	12	Function	Indicate and transmit	
	13	Output	4-20 ma HART (2 wire) , SIL2	
	14	Electric cable entry	1/2"NPTF	
	15	Power supply	24VDC	
	16	Enclosure	WP-IP65	
	17	Electrical area classification	IEC zone 2 GRIIA/IIB	
	18	Intrinsically safe	Required	
	19	Gauge head material	Al , dual compartment	

51-LT-1401, 51-LT1402B				Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
Local indicator	20	Type	Digital , 4 line display	
	21	Location	Integral , local push button for configuration	
	22	Enclosure	IP65	
Certification	23	Statutory	PESO/CCE required	
Transmitter Connection	24	Size	3"	
	25	Rating	150	
Centre To Centre (Inst range)	26	813	mm	
Probe length	27	1060	mm	
Process condition	28	Fluid	Rich Amine (51-VV-101)	
	29	Temperature DEG C	60.3(Design 75.3)	
	30	Pressure Kg/cm2G	4.6 (Design 6.6)	
	31	Viscosity CP	3.2	

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Specification for Radar Type Level Transmitter
Tag No 11-LT-2005, 11-LT-2007

(Please refer the technical specifications attached along with the product and synchronize accordingly)

TAG NO	1	11-LT-2005, 11-LT-2007		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
	2	Transmitter make	Vendor to specify	
	3	Transmitter model	Vendor to specify	
SENSOR	2	Wave guide type		
	3	Response Time	< 1 s or better	
	4	Linearity	Linearity protocol (3-point)	
		MOC of probe	SS361/SS316L	
	6	Operating temp effect	+/-0.01%of probe length	
	7	Connection	As per table attached	
	8	Orientation	Side by side	
	9	Accuracy	+/- 3 mm	
Transmitter	10	Function	Indicate and transmit	
	11	Output	4-20 ma HART (2 wire) ,SIL2	
	12	Electric cable entry	1/2"NPTF	
	13	Power supply	24VDC	
	14	Enclosure	WP-IP65	
	15	Electrical area classification	IEC zone 2 GRIIA/IIB	
	16	Intrinsically safe	Required	
	17	Gauge head material	Al , dual compartment	

TAG NO	1	11-LT-2005, 11-LT-2007		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
Local indicator	18	Type	Digital	
	19	Location	Integral	
	20	Enclosure	WP-IP65	
Certification	22	Statutory	PESO/CCE required	
Transmitter Connection	23	Size	3"	
	24	Rating	300	
Centre To Centre (Inst range)	25	356	mm	
Probe length	26	660	mm	
Process condition	27	Fluid	Hydrocarbon(11-VV-014)	
	28	Temperature DEG C	103.2(Design(-) 135)	
	29	Pressure Kg/cm2G	20.7 (Design 26)	
	30	Viscosity CP	0.045	
Remark	31	Cryogenic service		

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Specification for Radar Type Level Transmitter

Tag No 26-LT-102

(Please refer the technical specifications attached along with the product and synchronize accordingly)

TAG NO	1	26-LT-102		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
	2	Transmitter make	Vendor to specify	
	3	Transmitter model	Vendor to specify	
SENSOR	4	Type	RADAR Type	
	5	Response Time	< 1 s or better	
	6	Linearity	Linearity protocol (3-point)	
	8	MOC	SS316/SS316L	
	9	Orientation	Side by side	
	10	Accuracy	+/- 3 mm	
Transmitter	11	Function	Indicate and transmit	
	12	Output	4-20 ma HART (2wire) , SIL 2	
	13	Electric cable entry	1/2"NPTF	
	14	Power supply	24VDC	
	15	Enclosure	WP-IP65	
	16	Electrical area classification	IEC zone 2 GRIIA/IIB	
	17	Intrinsically safe	Required	
	18	Gauge head material	Al, dual compartment	
Local indicator	19	Type	Digital, local pushbuttons for configuration	
	20	Location	Integral	
	21	Enclosure	WP-IP65	

TAG NO	1	26-LT-102		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
Certification	22	Statutory	PESO/CCE required	
Antena	23	1-1/2" PTFE encapsulated		
Mounting	24	Thread 1-1/2"NPT , Mounting 2" Plate , antena with check nut for mounting		
Process condition	25	Fluid	Water	
	26	Temperature DEGC	Amb	
	27	Pressure Kg/cm2g	Atm	
SPAN	28	5	Mtr	

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Specification for Radar Type Level Transmitter

Tag No 11-LT-2451

(Please refer the technical specifications attached along with the product and synchronize accordingly)

TAG NO	1	11-LT-2451		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
	2	Transmitter make	Vendor to specify	
	3	Transmitter model	Vendor to specify	
SENSOR	2	Wave guide type	Wave guide type	
	3	Response Time	< 1 s or better	
	4	Linearity	Linearity protocol (3-point)	
	6	Operating temp effect	+/-0.01%of probe length	
	7	MOC	SS316/SS316L	
		Connection	As per table attached	
	8	Orientation	Side by side	
	9	Accuracy	+/- 3 mm	
Transmitter	10	Function	Indicate and transmit	
	11	Output	4-20 ma HART (2 wire) , SIL2	
	12	Electric cable entry	1/2"NPTF	
	13	Power supply	24VDC	
	14	Enclosure	WP-IP65	
	15	Electrical area classification	IEC zone 2 GRIIA/IIB	
	16	Intrinsically safe	Required	
	17	Gauge head material	Al , dual compartment	

TAG NO	1	11-LT-2451		Vendor Acceptance (Vendor to mention 'YES' if acceptable or 'NO' if not)
Local indicator	18	Type	Digital	
	19	Location	Integral	
	20	Enclosure	WP-IP65	
Certification	22	Statutory	PESO/CCE required	
Transmitter Connection	23	Size	3"	
	24	Rating	150	
Centre To Centre (Inst range)	25	813	mm	
Probe length	26	1118	mm	
Process condition	27	Fluid	Condensate (Condensate POT11-VV-016)	
	28	Temperature DEG C	147-157(Design 252)	
	29	Pressure Kg/cm2G	3.5-4.5 (Design 6.5/FV)	
	30	Viscosity CP	3.2	

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1.0 BID EVALUATION CRITERIA (BEC):

1.1 BEC- Technical: (as a single bidder)

- 1.1.1 The bidder should either be a manufacturer or authorized dealer/distributor/channel partner of the offered product.
- 1.1.2 The Bidder must have '**executed**' at least one single **Purchase Order** against Supply of **LEVEL TRANSMITTERS** having value not less than **Rs. 8.45 lakhs** in the preceding 07(Seven) years prior to final due date of bid submission.

Note 1: Bidder(s) shall be required to upload the documents in respect of above experience criteria as per details at sl. no. 1.3 below.

1.1.3 Relaxed Norms for Startups (prior experience criteria):

Prior experience (i.e. sl. no. 1.1.2 above) for 'Startup' company [whether Micro & Small Enterprises (MSEs) or otherwise] as a bidder, shall not be required subject to meeting the quality and technical specifications (scope of work) as specified in the tender document. However, BEC of Sl no: 1.1.1 shall be applicable to 'Startup' also.

For availing the above relaxation, bidder is required to submit / upload the requisite certificate towards Startup Enterprise Registration issued by Department of Industrial Policy and Promotion, Ministry of Commerce & Industry, Govt. of India and the certificate should be **duly certified by the Chartered Accountant (not being an employee or a Director or not having any interest in the bidder's company / firm)** and also notarized by notary public with legible stamp.

The relaxation of prior experience and prior turnover to startup (whether Micro & Small Enterprise (MSEs) or otherwise) has been given to a specific goods/job domain wherein they are registered for as mentioned above.

In case, certificate of DIPP does not specify goods / job domain, startups are required to submit the documents for the same including the application submitted to DIPP.

1.2 BEC- Financial: NOT APPLICABLE IN THIS TENDER.

- 1.3 Documents required to be uploaded in GeM portal by the bidder along with other bid documents for qualifying the BEC mentioned at sl. no. 1.1 and 1.2:

Sn	BEC Clause no.	Description	Documents required along with Un-priced bid for qualifying BEC (Bid Evaluation Criterion)
	1.1	Technical Experience Criteria – Document All documents to be uploaded (submitted) must be self-attested .	
1	1.1.1	Documents against Status of Bidder	a) In case the bidder is a Manufacturer , then bidder must submit/upload a copy of valid documentary evidence (on the final bid due date of submission) for being a manufacturer [i.e., valid Industrial License/Annual Report/Monthly Excise Return Form (ER-I)/Company Registration Certificate/ISO Certificate/Excise Registration Certificate/Certificate issued by Statutory Authority/UDYOG AADHAAR Memorandum/NSIC/UDYAM Registration Certificate or equivalent certificate].

Sn	BEC Clause no.	Description	Documents required along with Un-priced bid for qualifying BEC (Bid Evaluation Criterion)
			b) In case the bidder is an authorized dealer/distributor/channel partner of the manufacturer , then bidder must submit/upload copy of valid authorization certificate (on the final bid due date of submission) issued directly by the manufacturer confirming the status of the participated bidder/firm being an authorized distributor/dealer/channel partner. Besides above, bidder also to submit/upload valid proof of manufacturer-ship of its Manufacturer as mentioned in above para.
2	1.1.2	Experience against execution/ completion of Order/ Contract	Bidder must submit/upload legible copy(ies) of the followings along with the relevant Technical bid (Un-priced bid) in support of the point towards proof of meeting this BEC: a) One Single Order/Contract along with copy of detailed SOR (Schedule of Rates). b) Proof of its supply/execution of above [(i.e. execution/completion certificate issued from purchaser/end user/authorized consultant of owner)/Invoice with proof of payment or Inspection Note or Good Receipt Report or Challan/Consignment Note/Lorry Receipt duly endorsed by the authorized recipient of the buyer / Consignee Receipt & Acceptance Certificate (CRAC) of GeM etc.] clearly having the reference no. of Order/Contract, Item Description, Quantity executed and actual date of execution etc.].
3	1.1.3	Documents against Startup Company	a) Bidder (having New/Old startup “Certificate of Recognition” as mentioned at 1.1.3) has to upload/submit documents for the specific goods/job domains wherein they are registered for including the application submitted to DPIIT (formerly known as DIPP) duly certified by the Chartered Accountant (not being an employee or a Director or not having any interest in the bidder’s company/firm) and notarized by notary public with legible stamp. b) In case, certificate of DIPP does not specify goods / job domain, startups are required to submit the documents for the same including the application submitted to DIPP.
	1.2	Financial Experience Criteria- Not Applicable in this tender.	

Note to above Bid Evaluation Criteria (point no. 1.0):

- i) A job executed by a bidder for its own plant/projects cannot be considered as experience for the purpose of meeting requirement of BEC of the tender. However jobs executed for a subsidiary / Fellow Subsidiary / Holding company will be considered as experience for the purpose of meeting BEC subject to submission of Tax paid invoice (s) duly certified by Statutory Auditor of the bidder towards payment of Statutory tax in support of the job executed for subsidiary/Fellow subsidiary/Holding company. Such bidders

to upload (submit) these documents in addition to the documents specified in the bidding documents to meet BEC.

- ii) Bids of Joint Venture / Consortium are not acceptable.
- iii) Only documents (Work Order, Completion certificate, Execution Certificate etc.) which have been referred/ specified in the bid shall be considered in reply to queries during evaluation of Bids.
- iv) The cut-off date for meeting the criteria of BEC of the tender shall be one day prior to the due date for submission of bid.
- v) Eligibility criteria in case bid is submitted on the basis of technical experience of FOREIGN BASED ANOTHER COMPANY (SUPPORTING COMPANY) which holds more than 50% of the paid up share capital of the bidding company or vice versa: For details, relevant clause of ITB to be referred.

2.0 Methodology for Evaluation of Bids:

2.1 The evaluation will be done on itemwise L1 basis and will be evaluated for award. Price Evaluation shall be done by GeM portal itself & L1 shall be displayed after opening of price bid.

2.2 If a Startup company [whether Micro & Small Enterprises (MSEs) or otherwise] as a bidder gets qualified without any prior experience & turnover criteria as mentioned above and emerges as lowest evaluated bidder (L1), the LOA / Order on such Startups shall be placed for the quantity as per distribution methodology defined in Section-II of tender document.

2.3 In case of **a tie** at the lowest bid (L1) position between two or more non-Startup bidders, then LOA / Order shall be placed on the bidder who has higher / highest turnover in last audited financial year.

2.4 In case, there is **a tie** at the lowest bid (L1) position between only Startup bidders, the LOA / Order shall be placed on the Startup who is registered earlier with Department of Industrial Promotion and Policy for startup.

2.5 In case, there is **a tie** at the lowest bid (L1) position between Startup bidders and non-Startup bidders; then LOA / Order shall be placed on the bidder having highest working capital in last financial year, **duly certified by Chartered accountant.**

2.6 CPBG:

The contract performance security shall be 3% of annualized Basic Contract Value (without GST therein) towards faithful performance of the contractual obligations and must be valid for 03 months beyond the contract period. For the purpose of Contract Performance Security, Contract/order value shall be exclusive of GST. Details as per ITB of Tender document.

2.7 PPP Policy 2012:

Considering the nature of job, splitting of quantities shall be possible in this case and hence the clause for award of 25 % of ordered quantity to MSE as per PPP 2012 is possible. Therefore, MSE quoting price within price band L1 (other than MSE) + 15%, may be awarded for 25% of the SOR quantity subject to matching of L1 price as per ITB of tender document. In case two or more MSE bidders comes

within the price band of L1 + 15%, the preference to match the L1 rate shall be given in sequence of their inter-se position (L2, L3... and so on). In case of tie, the MSE bidder having highest turnover shall be awarded subject to matching of L1 price”.

2.8 CLAUSE REGARDING PROVISION FOR PROCUREMENT FROM A BIDDER SHARES A LAND BORDER WITH INDIA (FOR DETAILS – REFER RELEVANT CLAUSE OF ITB):

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.