



NATIONAL FERTILIZERS LIMITED

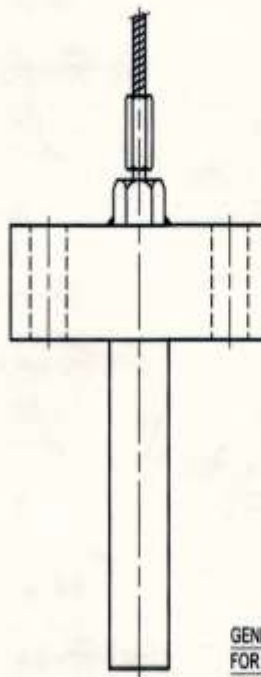
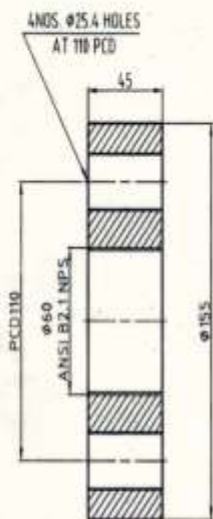
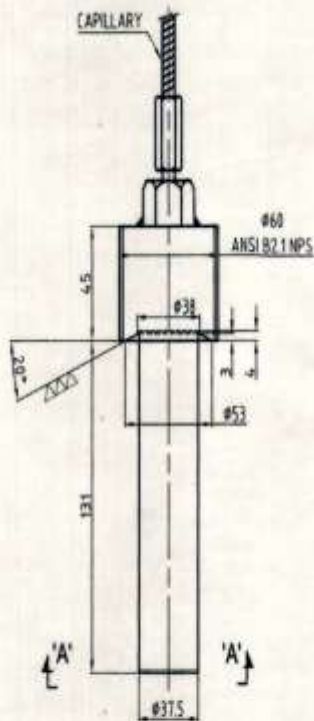
(A Govt. of India Undertaking)
Naya Nangal(Punjab)-140126 India
Materials Department
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NFL Tender Ref : SPX/2023/293/Re

Sr. No.	Material Code	Description of Material	UoM	Qty.	Vendor Confirmation (Yes/ No/remarks)
1	9147221	Remote Seal Diaphragm type Smart Electronic Pressure Transmitter. Range-0-300 KG/CM ² Detailed Technical Specifications & Dimensions as per attached Annexure-1 & Drawing No. NG-19497.	Nos.	2	
Note :					
1. Party Shall Submit the product information catalogue and dimensional details of the diaphragm Seal & process flange along with their offer.					
2. Party shall furnish Seal Diaphragm Pressure Test Certificate up to 300 kg/cm ² and transmitter Calibration Certificate along with supply of material. Cost of the test certificate and Calibration Certificate must be inclusive in quoted price on GeM Portal.					
3. Party to submit Seal Diaphragm and Wetted Parts MOC certificate along with supply of material. Cost of the MOC certificate must be inclusive in quoted price on GeM Portal.					
4. Party have to furnish a Guarantee / Warranty Certificate for all the above mentioned products against defective material / bad workmanship for a period of 12 months from the date of commissioning or 18 months from the date of dispatch, whichever is earlier. In case the material fails during the above Guarantee period due to defective material or bad workmanship, you will have to replace the same free of cost. Certificate must accompany the dispatch documents.					
5. Party to submit compliance to each and every perimeter of Annexure-					

1. Non-Submission of Annexure-1 Compliance will result in technical disqualification of the party.	
6. Any deviation from NIT specification shall be clearly mentioned by party.	
7. Kindly confirm the quoted rates must be inclusive of all i.e GST, Freight, Transit Insurance and P&F etc.	
8. Kindly mention the GST (%age) However, quoted rates must be inclusive of all GST.%
9. Party must have supplied the similar material to any PSU/REPUTED ORGANIZATION for Urea-Carbamate service. Party shall submit copies of successfully completed PO for similar material i. e. Remote seal diaphragm type pressure transmitter.	

ANNEXURE-1			Vendor Remarks
(Vendor to provide their acceptance for all technical specifications of ANNEXURE-1 in Vendor remarks column)			
Specifications for Remote seal diaphragm type Pressure Transmitter			
A	ITEM	Microprocessor based smart remote seal diaphragm type pressure transmitter with HART protocol	
	Tag	PT-202/2031	
	Service	Urea-Carbamate	
	Quantity	2 No.	
B	GENERAL		
	Accuracy	± 0.1 % of span or better	
	Damping	Required, Configurable	
	Calibration Range	0-300 kg/cm ²	
	Zero and Span adjustment	Required	
	Calibration of Transmitter	Possible with or without hand held communicator	
	Power Supply	24V DC, Two wire system	
	Transmitter Output	4 to 20 mA + HART	
	Digital Output Indicator	Yes, Local Display with configurable facility	
	Lightening Protection	Required	
	EMC/RFI Compliance	Required	
C	Process Conditions		
	Normal Temperature	144°C	
	Normal Pressure	225 kg/cm ²	
D	MATERIAL		
	Seal Diaphragm & Wetted parts material	SS 316L-UG /25-22-2 or better suitable to our service	
	Capillary tube material	AISI 316 Protected with PVC sleeve	
	Capillary tube Length	3 meters	
	Fill Fluid	Silicon Oil or Party to specify	
	Seal mounting flange material	Carbon Steel	
	Transmitter Body Material	Aluminium Alloy or better	
E	PROCESS CONNECTION		
	Remote Seal Process Connection	ANSI 2",2500 # LENS FACED	
	Remote Seal Dimensions	As per attached drawing NG-19497	
	Transmitter Mounting Accessories	Mounting Bracket for 2" Pipe , Material SS 304 or better	
	Electric connection	1/2 " NPT (F)	
F	ENCLOSURE		
	Area Classification	E Ex ia IIC T4	
	Environmental Protection Class	IP-65 or Better	

NG19497



ASSEMBLY

GENERAL TOLERANCE FOR PERPENDICULARITY = \perp 0.02
 GENERAL TOLERANCE FOR CONCENTRICITY = \odot 0.01



MAT:
 DIAPHRAGM AISI - 316L SS UREA Gr.
 WETTED PARTS AISI - 316L UREA Gr.
 FLANGE A 193 Gr. B7

PASSED FOR EXECUTION
 Name JASWINDER SINGH
 Signature *[Signature]*
 Designation Sr. Manager (Inst.)
 Date 25-01-2012

नेशनल फर्टिलाइजर्स लिमिटेड नंगल युनिट, नया नंगल
NATIONAL FERTILIZERS LIMITED NANGAL EXPANSION UNIT

DRN	DIVYENDR KUMAR (Sr. D. O. / CAD/Inst.)	<i>[Signature]</i>	17-01-2012	TITLE	UREA PLANT (INSTRUMENT)	SECTION 31
CHKD.	S. PRASHAR (Supervisor / CAD/Inst.)	<i>[Signature]</i>	25-01-2012	SEAL DIAPHRAGM TYPE PRESSURE MEASURING ELEMENT (THREADED FLANGE ANSI 2500, 2")		
RE CHKD.	RAMESH PASWAN (Asst. Manager / Inst.)	<i>[Signature]</i>	25-01-2012			
APPD.	K. P. SINGH (Manager / Chem. / I.E.)	<i>[Signature]</i>	25-01-2012			
NO.	DATE	REVISIONS	NAME			

REF. DRG.					
NO.	DATE	REVISIONS	NAME	SIGNATURE	DATE

SCALE 1:2 DRG. NO. 7/1000/31/B-11 SH. 1 OF 1
 REV. 0

NG19497

A3 SHEET