

SCOPE DESCRIPTION:Supply of K TYPE THERMOCOUPLE

BHEL ENQUIRY NO.H152500152 Dt. 22.11.2025

PROJECT :NALCO DAMANJODI (S.O.7906)

BILL OF QUANTITIES					
Item Number	Item Title	Item Description	Item Quantity	Unit of Measure	Delivery Period (In number of days)
1	VZ7322098013	K TYPE THERMOCOUPLE,DUPLEX SHEATH SS316 ----- K type Thermocouples, Duplex, Thermocouple Sheath: SS316 Thermowell ,Mtl SS316 Adj Flange As per Datasheet PHJ2100300-BH1-001 and Drawing provided. IBR: Not required	6	no.	42

PRICE SCHEDULE

Enquiry Item Sl No	Material Code	Description	UOM	Quantity	Unit Rate (Excl GST)	Total Rate (Excl GST)
1	VZ7322098013	K TYPE THERMOCOUPLE,DUPLEX SHEATH SS316 ----- K type Thermocouples, Duplex, Thermocouple Sheath: SS316 Thermowell ,Mtl SS316 Adj Flange As per Datasheet PHJ2100300-BH1-001 and Drawing provided. IBR: Not required	6	no.		
					Total	

Note : Vendor shall quote unit price including Freight, P&F, Transit Insurance charges.

SIGNATURE OF VENDOR WITH STAMP

COMMERCIAL TERMS AND CONDITIONS (For Indigenous Suppliers)

SL. NO.	DESCRIPTION	BHEL REQUIREMENT	SUPPLIER CONFIRMATION
1	PAYMENT TERMS	a) Micro & Small Enterprises (MSEs)-- 45 Days from date of material acceptance(CRAC) b) Medium Enterprises ---60 Days from date of material acceptance(CRAC) c) Non MSME ---90 Days from date of material acceptance(CRAC) All Bank Charges if any to Vendor account only. However, GST portion of invoice shall be released only upon 1. Vendor declaring the invoice in his GSTR-1. 2. Receipt of Goods and Tax Invoice by BHEL. 3. Confirmation of payment of GST thereon by vendor on GSTN Portal. Note: Offer with Payment against Proforma Invoice / Advance payment / LC are not acceptable	
2	DELIVERY PERIOD	The acceptable Delivery period shall be within 42 days from the date of PO. to Invoice/LR date	
3	DELIVERY BASIS/LOCATION	FOR NALCO DAMANJODI SITE	
4	FREIGHT CHARGES	Included. <u>Transportation up to delivery location is in Supplier Scope.</u>	
5	TRANSIT INSURANCE	Included <u>Transit Insurance up to delivery location is in Supplier Scope.</u>	
6	PACKING & FORWARDING	Included.	
7	INSPECTION CHARGES	Not Applicable	
8	OFFER VALIDITY	90 days from the date of Price bid opening.	
9	L.D.CLAUSE	In the event of your failure to dispatch the materials within the delivery period, Liquidated Damages shall be at the rate of 0.5% of the total supply order value per week of delay or part thereof subject to maximum of 10% of the total supply order value. LD shall be reckoned from the date of LR/Invoice whichever is later. Any deviation from the above LD clause, loading shall be applied to the extent of relaxation sought to which it is not agreed by the bidder at offered basic value. In case of LD recovery, the applicable GST shall also be recovered from the supplier.	

COMMERCIAL TERMS AND CONDITIONS (For Indigenous Suppliers)

SL. NO.	DESCRIPTION	BHEL REQUIREMENT	SUPPLIER CONFIRMATION
10	ARBITRATION	Notwithstanding anything contained in any document whatsoever, all questions, matters , disputes and claims relating to and arising out of this contract, shall be referred to sole arbitrator, who shall be appointed by Head of the Unit, BHEL, HPVP, Visakhapatnam at his sole discretion. Such appointment of arbitrator shall not take place unless and until a written request for appointment of arbitrator from any of the parties to the contract has been received by Head of the Unit as aforesaid. The arbitrator shall give his reasoned award. It is a term of this contract that no person other than a person appointed by such Head of the Unit as aforesaid , shall act as arbitrator and if for any reason that is not possible, the matter is not to be referred to arbitration at all. The venue of arbitration shall be such place as may be Fixed by the arbitrator at his sole discretion. The award of arbitrator shall be final, conclusive binding on all the parties to the contract.	
11	JURISDICTION	Not out of this contract including that arise out of arbitration and bank guarantees, shall be initiated, filed and tried only in the courts, tribunals and forums, situated at and having territorial jurisdiction over Visakhapatnam even though such jurisdiction also vests in courts, tribunals & forums situated elsewhere in the country.	
12	RISK PURCHASE	The delivery period stated shall be realistic and shall be strictly adhered to. If the deliveries are not maintained and if on the account, this company is forced to buy the materials elsewhere to avoid any loss or damage that the company may sustain thereby the purchaser is entitled to procure the material at the risk and cost of the seller, which shall be recovered from them out of due of this PO / Contract, any other PO / Contract with BHEL and balance amount if any shall be required to be deposited by the vendor	
13	REJECTION REPLACEMENT	Rejected material, if any, after receipt of material at our end, shall be replaced by you immediately free of cost and also on freight paid basis, failing which Bank Guarantee can be encashed by BHEL.	
14	GUARANTEE CERTIFICATE	Vendor should guarantee the material against all design and manufacturing defects and for performance for a period of 18 months from the date of last dispatch or 12 months from the date of commissioning whichever is earlier. If any defect is noticed during the above period, the same shall be rectified / replaced free of cost on FOR Destination basis within a reasonable time.	
15	FIRM PRICE	Price should be firm till execution of order.	

	PROJECT : NALCO DAMANJODI 18.5 MW STG + 300 TPG BOILER PROJECT AT NALCO,DAMANJODI,ODISHA																										
	CUSTOMER: M/s. BHARAT HEAVY ELECTRICALS LIMITED PROJECT ENGINEERING & SYSTEMS DIVISION, HYDERABAD																										
	SUPPLIER: M/s. YOKOGAWA INDIA LTD																										
 <table border="1"> <tr> <td colspan="2">BHARAT HEAVY ELECTRICALS LIMITED</td> </tr> <tr> <td colspan="2">Project Engineering & Systems Division</td> </tr> <tr> <td colspan="2">Hyderabad</td> </tr> <tr> <td>Code</td> <td>DOCUMENT REVIEW DETAILS</td> </tr> <tr> <td>1</td> <td>No comments. Proceed with manufacture / fabrication.</td> </tr> <tr> <td>2</td> <td>Proceed with manufacture / fabrication as per the commented document. Resubmit the revised document for approval.</td> </tr> <tr> <td>3</td> <td>Drawing/document does not conform to basic requirements as marked. Resubmit for approval.</td> </tr> <tr> <td>4</td> <td>Retained for Records.</td> </tr> <tr> <td colspan="2"> Approval conveyed herein neither relieves the vendor from his responsibility to comply with NIT specification and all applicable code and standards. Vendor has to ensure safe and smooth operation and meet the intended performance of the equipment. </td> </tr> <tr> <td>Reviewed by</td> <td>Vineet Kumar</td> </tr> <tr> <td></td> <td>Date: 07.04.2022</td> </tr> </table> DATASHEET for THERMOCOUPLE WITH THERMOWELL						BHARAT HEAVY ELECTRICALS LIMITED		Project Engineering & Systems Division		Hyderabad		Code	DOCUMENT REVIEW DETAILS	1	No comments. Proceed with manufacture / fabrication.	2	Proceed with manufacture / fabrication as per the commented document. Resubmit the revised document for approval.	3	Drawing/document does not conform to basic requirements as marked. Resubmit for approval.	4	Retained for Records.	Approval conveyed herein neither relieves the vendor from his responsibility to comply with NIT specification and all applicable code and standards. Vendor has to ensure safe and smooth operation and meet the intended performance of the equipment.		Reviewed by	Vineet Kumar		Date: 07.04.2022
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BHEL PO NO: T721A00317 DATED 20.09.2021																											
DOCUMENT TITLE :DATASHEET for THERMOCOUPLE WITH THERMOWELL																											
SUPPLIER DOC. NO: PHJ2100300-BH1-001					REV: 02																						
02	APPROVAL	04.04.2022	GK	GK	VSJ																						
01	APPROVAL	17.03.2022	GK	GK	VSJ																						
00	APPROVAL	15.11.2021	GK	GK	VSJ																						
REV	FOR	DATE	PREPARED	CHECKED	APPROVED																						

BILL OF MATERIAL FOR THERMOCOUPLE WITH THERMOWELL



ITEM	THERMOCOUPLE WITH THERMOWELL
CUSTOMER	BHARAT HEAVY ELECTRICALS LIMITED
PROJECT	NALCO DAMANJODI 18.5 MW STG + 300 TPG BOILER PROJECT AT NALCO,DAMANJODI,ODISHA
PO NO.	T721A00317 DATED 20.09.2021

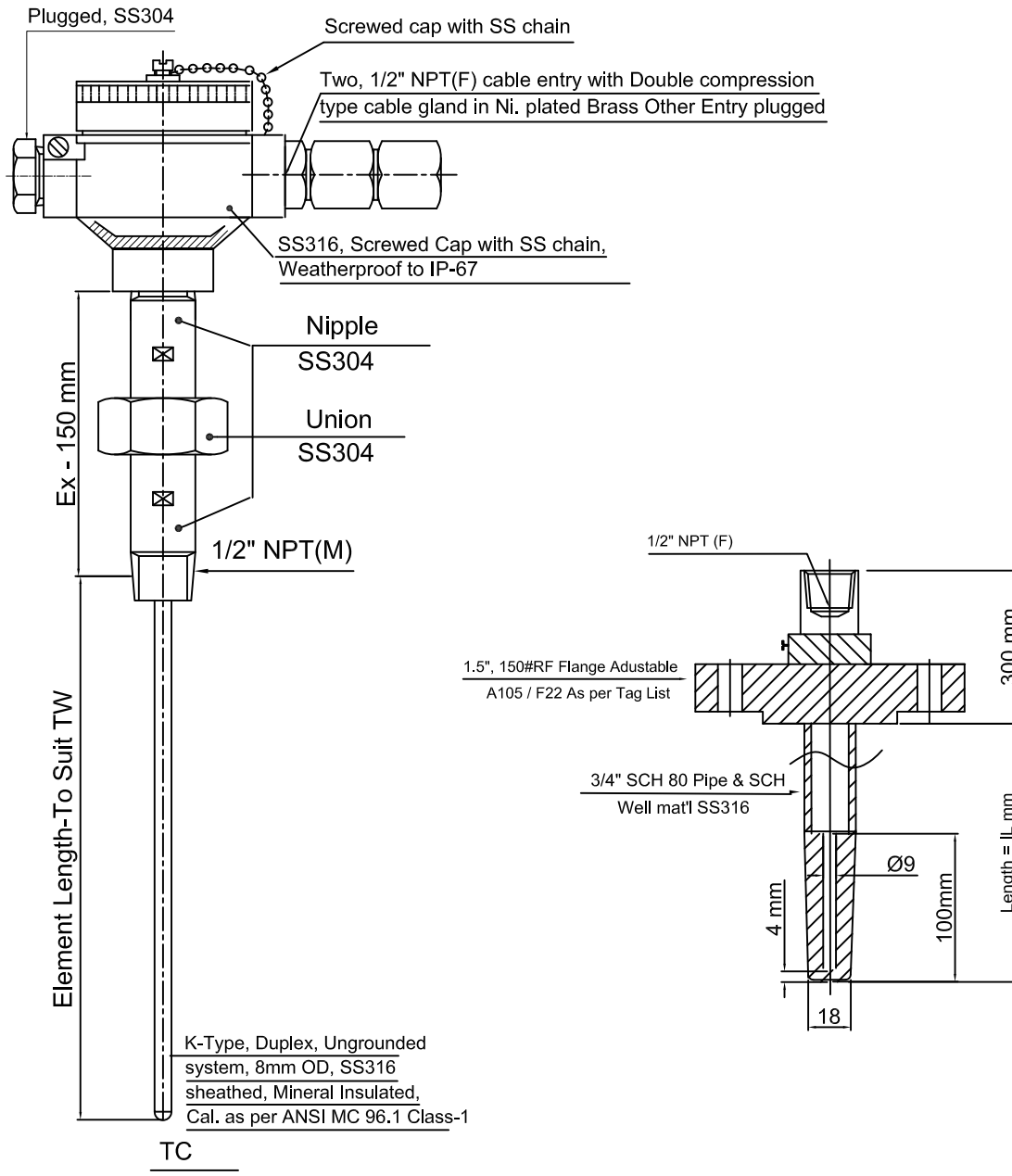
Sr. No.	Type of Instrument	P.O. ref	Range	Main supply Qty (No's)		Remarks	
				Used Qty	C. Spare Qty		
1	THERMOCOUPLE WITH THERMOWELL	S.No. 66 of Annexure-1	-	23	2		
2	THERMOCOUPLE WITH THERMOWELL	S.No. 67 of Annexure-1	-	7	1		
3	THERMOCOUPLE WITH THERMOWELL	S.No. 68 of Annexure-1		14	2		
4	THERMOCOUPLE WITH THERMOWELL	S.No. 69 of Annexure-1		8	0		
5	THERMOCOUPLE WITH THERMOWELL	S.No. 70 of Annexure-1		4	0		
6	THERMOCOUPLE WITH THERMOWELL	S.No. 71 of Annexure-1		2	0		
7	Double Compression Cable Glands Ni. Pltd Brass, 1/2"NPT(M)					1 No per instrument	
8	Blind Plugs SS3304, 1/2"NPT(M)					1 No per instrument	
9	Tag Plate: SS					1 No per instrument	

		YOKOGAWA INDIA <i>Products BU - Project Management Group</i>		DOC. No. : PHJ2100300-BH1-001	
PROJECT : NALCO DAMANJODI 18.5 MW STG + 300 TPG BOILER PROJECT					
CUSTOMER : Bharat Heavy Electricals Limited					
CONSULTANT : M. N. DASTUR & COMPANY (P) LTD					
END USER : M/s. NALCO,DAMANJODI,ODISHA					
PO / LOI No. : T721A00317 DATED 20.09.2021					
DOCUMENT : Data Sheets for Bought out products - THERMOCOUPLE WITH THERMOWELL					
THERMOCOUPLE WITH THERMOWELL					
S.No.	DESCRIPTION		SPECIFICATION		
1	Element		K-type		
2	Construction		Duplex ungrounded, Insulated, filled with MgO		
3	Insulation		Chromel/Alumel		
4	Sheath Material & Diameter		316SS & 8 mm		
5	Adjustable, 3-piece union		1/2"NPT(M) Nipple-Union-Nipple of 150mm long in SS304		
6	Calibration Standard		ANSI MC 96.1 Class 1		
7	Head		SS316, Screwed Cap with SS304 chain, Weatherproof IP-67		
8	Cable Entry		1/2" NPTF - 2 Nos (With Ni-plated brass DC Glands -1 No and SS304 Plugs -1 No)		
9	Connection		1/2" NPT(M)		
10	Terminal Block		Heat Resist Ceramic spring loaded terminal block with Ni.pltd brass terminal		
11	Leads		Hermitically sealed		
12	Accuracy		ClassA/Class1 as per IEC751 / ANSI MC96.1(special Class)		
13	Sensor Wire Size		1.5 sqmm		
14	Element Length		Suitable to reach at bottom of TW		
15	Hot Junction		Grounded/Ungrounded		
16	Sheath Material		SS316		
17	Hazardous area class		Suitable for Zone-1, IIA/IIB, T3 (only for Ex'd tags)		
THERMOWELL					
18	TW Type		Bar stock threaded		
19	Well Material		SS316		
20	Instrument Connection		1/2" NPT (F)		
21	Process Connection		As per Tag List		
22	Bore (ID)		9 mm		
23	Dia (OD)		18 mm tapering from 28mm		
24	Insertion Length (U)		As per Tag List		
25	Extension Length (T)		As per Tag List		
26	Total Length (L)		"U" + "T"		
27	Tip Thickness		4 mm		
GENERAL :					
28	Make		Gauges Bourdon		
29	Qty		63 Nos.		
TEST CERTIFICATES:					
a	Material Test certificate				
b	Hydro Test certificate, PMI Certificate				
c	IBR FORM IIIC (Applicable Tags)				
2	04.04.2022	FOR APPROVAL	GK	GK	VSU
1	17.03.2022	FOR APPROVAL	GK	GK	VSU
0	15.11.2021	FOR APPROVAL	GK	GK	VSU
REV	DATE	DESCRIPTION	PREP	CHKD	APPD

TAG LIST for RTD with THERMOWELL																																
ESP-001-6A, Rev. 00		 		ITEM RTD (3-wire) with THERMOWELL																							Std. / Doc. Number					
				CUSTOMER BHARAT HEAVY ELECTRICALS LIMITED																												
				PROJECT Nalco Damanjodi 18.5 MW STG + 300 TPG Boiler Project																							Rev. No.			00		
				PO NO. T721A00317 DATED 20.09.2021																												
SR. No	OS. No	Tag No.	Description	Medium	Process Line Size	PROCESS PARAMETERS [Min./Nor./Max./Des.]			Range	Engg. Units	Process Connection	IBR	T'well MOC		Thermowell dimensions (Based on WFC)				Sheath Length (below NUN) in mm	Process Pipe			Inside pipe length (mm)	% of Insertion	TW nozzle / Piping stub details		[Max. Velocity (m/s)/ Density (Kg/m3) / Viscosity]	QTY. No.	Drawign No.			
						Pressure (Kg/cm2(a))		Temp. (°C)							TW OD (mm)	TW IL (mm)	"L1" (mm)	"EL" (mm)		OD (mm)	Thk (mm)	ID (mm)			Nozzle ID (mm)	Stub length (mm)						
42	43	06-02-TE-7164B	DSH O/L TEMP	STEAM	NB 350	75.6	75.6	347	347	0 -700	DegC	M42*2, L1-185mm,N1-100mm (250 Kg/cm2)	IBR	SS316	+	28	148 25	160	185	100	260	323.9	25	273.9	115	41.99	41 (Mini. 39)	45	40/31.5/0.02194	1	FOO00094-T	
43	44	06-02-TE-7164C	DSH O/L TEMP	STEAM	NB 350	75.6	75.6	347	347	0 -700	DegC	M42*2, L1-185mm,N1-100mm (250 Kg/cm2)	IBR	SS316	+	28	148 25	160	185	100	260	323.9	25	273.9	115	41.99	41 (Mini. 39)	45	40/31.5/0.02194	1	FOO00094-T	
44	45	06-02-TE-7139	MAIN STM TEMP	STEAM	NB 350	69/70.5/70.5	5	487/487/492	492	0 -700	DegC	M42*2, L1-175mm,N1-100mm (250 Kg/cm2)	IBR	SS316	+	28	148 25	150	175	100	250	355.6	27.9	299.8	102.1	34.06	41 (Mini. 39)	45	55/21/0.0282	1	FOO00094-T	
45	46	06-02-TE-7166A	MAIN STM TEMP	STEAM	NB 350	69/70.5/70.5	5	487/487/492	492	0 -700	DegC	M42*2, L1-175mm,N1-100mm (250 Kg/cm2)	IBR	SS316	+	28	148 25	150	175	100	250	355.6	27.9	299.8	102.1	34.06	41 (Mini. 39)	45	55/21/0.0282		FOO00094-T	
46	47	06-02-TE-7166B	MAIN STM TEMP	STEAM	NB 350	69/70.5/70.5	5	487/487/492	492	0 -700	DegC	M42*2, L1-175mm,N1-100mm (250 Kg/cm2)	IBR	SS316	+	28	148 25	150	175	100	250	355.6	27.9	299.8	102.1	34.06	41 (Mini. 39)	45	55/21/0.0282		FOO00094-T	
47	48	06-02-TE-7166C	MAIN STM TEMP	STEAM	NB 350	69/70.5/70.5	5	487/487/492	492	0 -700	DegC	M42*2, L1-175mm,N1-100mm (250 Kg/cm2)	IBR	SS316	+	28	148 25	150	175	100	250	355.6	27.9	299.8	102.1	34.06	41 (Mini. 39)	45	55/21/0.0282	1	FOO00094-T	
48	49	C. Spare	-	-	-	-	-	-	-	0 -700	DegC	M33*2, L1-250mm,N1-100mm (250 Kg/cm2)	IBR	SS316	+	28	148 25	225 166	191	100	266	2050	2050	-2050	-1904	92.88	29	45	55/21/0.0282		FOO00094-T	
49	50	C. Spare	-	-	-	-	-	-	-	0 -700	DegC	M42*2, L1-175mm,N1-100mm (250 Kg/cm2)	IBR	SS316	+	28	148 25	150	175	100	250	355.6	27.9	299.8	102.1	34.06	41 (Mini. 39)	45	55/21/0.0282		FOO00094-T	
50	51	06-02-TE-7668	HOT PA FROM APH	AIR	LATER	880mmwc	880mmwc	347	347	0-500	DegC	1 ½", 150RRF, U-1300mm TW:SS316; Adj. Flange: IS2062, 12SAARH		SS316	A105	26.7	18	1300	1325	100	1400	2050	2050	-2050	-1025	50.00	34	300	16/0.556/0.03101	1	FOO00094-U	
51	52	06-02-TE-7771	HOT SA FROM APH	AIR	LATER	170mmwc	170mmwc	354	354	0-500	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange: IS2062, 12SAARH		SS316	A105	26.7	18	1500	1525	100	1600	DUCT: 3530mm x 4560mm,11D		-	-	-	34	300	16/0.566/0.03101	1	FOO00094-U	
52	53	06-02-TE-6573AB	HOT PA TO MILLS AB	PRIMARY AIR	LATER	622mmwc	622mmwc	347	347	0-500	DegC	1 ½", 150RRF, U-950mm TW:SS316; Adj. Flange: IS2062, 12SAARH		SS316	A105	26.7	18	950	975	100	1050	DUCT: 1520mm x 1520mm,11D		-	-	-	34	300	16/0.556/0.02934	1	FOO00094-U	
53	54	06-02-TE-7773A1	HOT SA TO COMB FURNACE SIDE-A	AIR	LATER	170mmwc	170mmwc	354	354	0 -500	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: IS 2602 Gr. B		SS316	A105	26.7	18	1500	1525	100	1600	DUCT: 2340mm x 1800mm,11D		-	-	-	34	300	16/0.566/0.03101	1	FOO00094-U	
54	55	06-02-TE-7773A2	HOT SA TO COMB FURNACE SIDE-A	AIR	LATER	170mmwc	170mmwc	354	354	0 -500	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: IS 2602 Gr. B		SS316	A105	26.7	18	1500	1525	100	1600	DUCT: 2340mm x 1800mm,11D		-	-	-	34	300	16/0.566/0.03101	1	FOO00094-U	
55	56	06-02-TE-7773B1	HOT SA TO COMB FURNACE SIDE-B	AIR	LATER	170mmwc	170mmwc	354	354	0 -500	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: IS 2602 Gr. B		SS316	A105	26.7	18	1500	1525	100	1600	DUCT: 2340mm x 1800mm,11D		-	-	-	34	300	16/0.566/0.03101	1	FOO00094-U	
56	57	06-02-TE-7773B2	HOT SA TO COMB FURNACE SIDE-B	AIR	LATER	170mmwc	170mmwc	354	354	0 -500	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: IS 2602 Gr. B		SS316	A105	26.7	18	1500	1525	100	1600	DUCT: 2340mm x 1800mm,11D		-	-	-	34	300	16/0.566/0.03101	1	FOO00094-U	
57	58	06-02-TE-6573CD	HOT PA TO MILLS CD	PRIMARY AIR	LATER	622mmwc	622mmwc	347	347	0-500	0-500	1 ½", 150RRF, U-950mm TW:SS316; Adj. Flange:12SAARHMatl: IS 2602 Gr. B		SS316	A105	26.7	18	950	975	100	1050	DUCT: 2050mm x 2050mm,11D		-	-	-	34	300	16/0.556/0.02934	1	FOO00094-U	
58	59	06-02-TE-7867	FLUE GAS TEMP AFTER BOILER BANKS	FLUE GAS	LATER	(-) 17mmwc	(-) 17mmwc	550	550	0 - 800	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: F22		SS316	F22	26.7	18	1500	1525	100	1600	-	-	-	-	-	34	300	13/0.372/0.0384	1	FOO00094-U	
59	60	06-02-TE-7892	FLUE GAS TEMP AFTER ECO-1	FLUE GAS	LATER	(-) 34mmwc	(-) 34mmwc	395	395	0 - 600	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: F22		SS316	F22	26.7	18	1500	1525	100	1600	-	-	-	-	-	34	300	13/0.508/0.03261	1	FOO00094-U	
60	61	06-02-TE-7873A	FLUE GAS TEMP AFTER APH	FLUE GAS	LATER	(-) 150mmwc	(-) 150mmwc	155	155	0 - 250	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: F22		SS316	F22	26.7	18	1500	1525	100	1600	-	-	-	-	-	34	300	13/0.742/0.0242	1	FOO00094-U	
61	62	06-02-TE-7873B	FLUE GAS TEMP AFTER APH	FLUE GAS	LATER	(-) 150mmwc	(-) 150mmwc	155	155	0 - 250	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: F22		SS316	F22	26.7	18	1500	1525	100	1600	-	-	-	-	-	34	300	13/0.252/0.0482	1	FOO00094-U	
62	63	06-02-TE-7862	FLUE GAS TEMP AFTER PLATEN SH	FLUE GAS	LATER	(-) 5mmwc	(-) 5mmwc	1068	1068	0 - 1200	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: F22		SS316	F22	26.7	18	1500	1525	100	1600	-	-	-	-	-	34	300	13/0.252/0.0482	1	FOO00094-U	
63	64	06-02-TE-7864	FLUE GAS TEMP AFTER FINAL SH	FLUE GAS	LATER	(-) 9mmwc	(-) 9mmwc	862	862	0 - 1200	DegC	1 ½", 150RRF, U-1500mm TW:SS316; Adj. Flange:12SAARH Matl: F22		SS316	F22	26.7	18	1500	1525	100	1600	-	-	-	-	-	34	300	13/0.232/0.0482	1	FOO00094-U	

Ø UNSPECIFIED TOLERANCE ± 1 mm

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED



01	Second Submission	AM	AM	AM	04.03.2022
Rev.	Description	Drawn	Checked by	Approved by	Dated
Drawing No. : F0000094-U			W.O. No. :		
Client	M/s. Yokogawa India Ltd.				
Consultant	--				
Project	Field Instrument Package for NALCO Damanjodi Project				
End User	--				
Ref	GEM/2021/B/1214804		Dated: 17.05.2021		
Title	MINERAL INSULATED THETMOCOUPLE ASSEMBLY				
Gauges Bourdon (India) Pvt. Ltd. MFG UNIT OF GENERAL INSTRUMENTS CONSORTIUM Unit 1) Plot No.4,5,6 Jawahar Co-op.Indl.Estate,Near M.G.M College, 3744/3745 Fax:022-2742 1091,E-mail:gb1@general-gauges.com Unit 2) Plot No.144 Jawahar Co-op.Indl.Estate,Near M.G.M College, Mob-09819750005,E-mail:gb2@general-gauges.com Kamothe,Panvel-410209,Ph.No.022-2742 1095/1903					