

SPECIAL INSTRUCTION

This is to certified that this enquiry is being issued to “**M/s Forbes Marshal**” for supply of “Conductivity Sensor & Conductivity Transmitter”.

No other vendor's participation will be considered for the requirement of **Sagardighi (WBPDC)** project. Hence, it is requested to please do not participate in this tender enquiry except aforesaid manufacturer / their authorized dealer etc.

Anand Kumar
Dy. Manager (PPX-EM)
BHEL, HEEP, Haridwar
Email-anandku@bhel.in
For and on behalf of BHEL

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL					
BHEL	VENDOR'S NAME	ITEM	CONDUCTIVITY MEASURING EQUIPMENT	QP NO.	QA/BE/QP/317									
				REV.	07									
		DRG. NO.	AS PER PO											
		SPEC.	TG 60196											
		REV	AS PER PO		Page 1 of 2									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
										M	B	N		
1	2	3		4	5	6	7	8	9	D	10			11

1.0	INCOMING INSPECTION												
1.1	Conductivity sensor, conductivity transmitter and other electronic & electrical components	Visual, make, rating, model, type, valve, etc	Major	Visual	100%	TG 60196	TG60196/BOM	Internal records	√	P	V		
1.2	Flow chamber, electrode	Material	Major	Visual	100%	TG 60196	TG60196/BOM	COC	√	P	V		
1.3	Printed Circuit Boards	Visual, finish & dimensions	Major	Visual	100%	TG 60196	TG60196/BOM	Internal records	√	P	V		
1.4	Housing & enclosures	Visual defects, cutouts, drills, taps & painting	Major	Visual	100%	TG 60196	TG60196/BOM	Internal records	√	P	V		
2.0	INPROCESS INSPECTION												
2.1		Burn in test	Major	Electrical	100%	TG 60196	TG 60196 / Appd drawing	Test report		P	-		
2.2	Assembly of instruments	PCBs assemblies	Major	Visual	100%	TG 60196	TG 60196 / Appd drawing	Internal records		P	-		
2.3		Housing & enclosure assemblies	Major	Visual	100%	TG 60196	TG 60196 / Appd drawing	Internal records		P	-		
2.4		Internal layout, wiring, connections, and terminal marking	Major	Visual	100%	TG 60196	TG 60196 / Appd drawing	Internal records		P	-		
3.0	FINAL INSPECTION												
3.1	Type tests												Refer note
3.2	Routine tests												

MANUFACTURER/SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	APPROVED BY 	SACHIN JAIN 2021.07.13 16:22:18 +05'30'
		D RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.			
		M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER IR: INSPECTION REPORT INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER			

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1	2	3		4	5	6	7	8	9	D	10			11

3.2.1		Visual & dimension	Major	Visual/ measuremnt	100%	TG 60196	TG 60196 / Appd drawing	IR	√	P	W		
3.2.2		Insulation resistance	Major	Electrical	100%	TG 60196	TG 60196 / Appd drawing	Test report	√	P	W		
3.2.3		Burn in test	Major	Electrical	100%	TG 60196	TG 60196 / Appd drawing	Test report	√	P	V		
3.2.4		Functional/simulation test (Output signals, LED indicators & digital indications accuracy for FIVE input values in the operating range)	Major	Electrical	100%	TG 60196	TG 60196 / Appd drawing	Test report	√	P	W		
3.2.5		Compliance of technical requirements	Major	-	100%	TG 60196	TG 60196 / Appd drawing	COC	√	P	V		
3.2.6		Completeness & correctness of documents	Major	Physical	100%	TG 60196	TG 60196 / Appd drawing /SQP	Docume nts	√	P	V		
4.0	Packing & marking												
4.1		Identification & marking	Major	Physical	100%	TG 60196	TG 60196	Internal records	√	P	V		
4.2		Sturdiness of packing against transit damage	Major	Physical	100%	TG 60196	TG 60196	Internal records	√	P	-		

Note:

1. Type tests clearance from BHEL Engg to be verified (by inspection engineer) during inspection at vendor's works.
2. Manufacturer to maintain calibrated instruments having better accuracy than the item under test. Inspection engineer shall check the same.

MANUFACTURER/SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	APPROVED BY 	SACHIN JAIN 2021.07.13 16:22:29 +05'30'
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