

DUEDATE

02-03-2022

SL	MATERIAL CODE ITEM DESCRIPTION	QUANTITY	UNIT	LOTNO	LOT DELIVERY QTY SCHEDULE
1	W96415206940 CONDUCTIVITY TRANSMITTER TWO W IRE TYPE, RANGE 0 - 5 MIRCO S IEMENS / CM , CELL CONSTANT K = 0.01 , INPUT 24VDC, OUTPUT 4 -20MA, AUTOMATIC TEMP COMPENSA TION, ACCURACY CLASS 0.5% OF FSD , COMPLETE WITH MOUNTING B RACKET / DIN RAIL. SPEC: TG60196 REV: 08 SIZE: S DIM.: -	3	NO	1	3 28/05/22
2	W96415203339 CONDUCTIVITY SENSOR CELL CONSTANT 0.01 WITH INBUILT TEMP. COMPENSATOR OF PT 100 RTD, 3/4" NPT(M) THREAD CONNECTIONS FOR MOUNTING IN FLOW THROUGH CHAMBER, CELL BODY & ELECTRODES MADE OF SS316. SPEC: TG60196 REV: 08	3	NO	1	3 28/05/22
3	W96415203347 FLOW THROUGH CHAMBER WITH 1/2" NPT(F) CONNECTIONS AT BOTH ENDS FOR FLOW, WITH ADOPTERS FOR EXTERNAL WELDING WITH PIPE SIZE 13.5MM X 1.8MM, PORT OF 3/4" NPT(F) THREADS FOR CONDUCTIVITY SENSOR CONNECTIONS SPEC: TG60196 REV: 08	3	NO	1	3 28/05/22

** IMPORTANT: This enquiry is 2 part tender. Techno-Commercial bid (Part-1) & Price Bids (Part-2) should be submitted in separate envelopes. These two envelopes should be submitted in a common sealed envelope. Techno-Commercial Bid shall contain detailed Technical Specification, Drawings Technical documents, Catalogues, taxes & duties, payment terms, delivery period, Validity of offer, Replica of Price Bid (Copy of

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price bid without price part) etc. The confirmation to the special terms & conditions must be submitted alongwith Techno-Commercial bid.

Special Instructions:

For Indian Vendor :-

E-INVOICING UNDER GST IS IMPLEMENTED W.E.F. 01.01.2021 FOR ALL THE TAXABLE PERSONS HAVING TURNOVER MORE THAN RS 50 CR. IT HAS BEEN SPECIFIED BY THE GOVT. THAT IT IS MANDATORY TO MENTION A VALID UNIQUE INVOICE REFERENCE NO. (IRN) AND QR CODE AS GENERATED FROM GOVT. PORTAL ON A TAX INVOICE. BASED ON SUCH INFORMATION, GST ITC AS CLAIMED BY BHEL IN GST RETURNS SHALL BE MATCHED WITH THE CORRESPONDING DETAILS UPLOADED BY SUPPLIER IN E-INVOICING SYSTEM. IN CASE THE VENDOR / CONTRACTOR DELAYS OR FAILS TO PROVIDE ALL DOCUMENTS AS PER THE PURCHASE ORDER / WORK ORDER AT THE TIME OF SUBMITTING TAX INVOICE TO BHEL, ANY SUBSEQUENT FINANCIAL LOSS TO BHEL ON ACCOUNT OF VENDOR/CONTRACTOR SHALL BE TO VENDOR'S / CONTRACTOR'S ACCOUNT. BHEL HAS FURTHER RIGHT TO TAKE NECESSARY STEPS TO PROTECT ITS INTEREST AT THE TIME OF RELEASE OF PAYMENT. THIS FURTHER REQUIRES INCLUSION OF IRN AND QR CODE ON TAX INVOICE AS ANNOUNCED BY GOVT. OF INDIA W.E.F. 01.04.2021.

=> THE TENDER SHALL BE SUBMITTED IN TWO PART (PART-I: TECHNO-COMMERCIAL BID & COMPLIANCE OF PQR, FCA, & OTHER RESPECTIVE DOCUMENTS) AND (PART-II PRICE BID). PRICE BID (PART-II) TO BE KEPT IN SEPARATE ENVELOPE / COVER AS PER NIC TENDER. PART-I SHALL BE OPENED ON THE DUE DATE SPECIFIED IN TENDER. PART-II (PRICE BID) (OF PQR QUALIFIED BIDDERS ONLY) SHALL BE OPENED AT A LATER DATE.

=> BHEL GISTC (for Indian & Foreign vendors) IS APPLICABLE IN THIS CASE. IN CASE OF ANY DEVIATION FROM GISTC, PLEASE CLEARLY MENTION IN YOUR OFFER. BHEL RESERVE THE RIGHT NON-CONSIDER OF OFFER IN CASE OF DEVIATION FROM GISTC.

=> THE EVALUATION CURRENCY FOR THIS TENDER SHALL BE INR.

=> VENDOR MUST REMIT THE TENDER FEE OF RS. 2,000/- FOR AVAILING HARD COPY OF TENDER DOCUMENTS (IF REQUIRED). RELEVANT SPECIFICATIONS & DRAWINGS OF THE ITEMS WILL BE MADE AVAILABLE TO UNREGISTRED VENDORS ONLY AGAINST COPY OF FCA (ATTACHED).

=>ONLY THOSE VENDORS WHO FULFILL THE MINIMUM /PRE QUALIFYING REQUIREMENTS ANNEXURE, WILL BE CONSIDERED FOR FURTHER TECHNICAL EVALUATION. KINDLY SUBMIT PQR CLAUSE WISE DOCUMENTS.

=>DEVIATION WITH REFERENCE TO SPECIFICATION/DRAWING, IF ANY, SHOULD BE CLEARLY INDICATED ON A SEPARATE SHEET.

=>REVISION OF RATES IS NOT ACCEPTABLE UNLESS ASKED BY BHEL DUE TO MAJOR CHANGE IN DRAWING / SPECIFICATION / TENDER QUANTITY.

=> LD CLAUSE: PENALTY FOR LATE DELIVERIES SHAL BE APPLICABLE @0.5% PER WEEK OR PART THEREOF ON THE VALUE OF RESPECTIVE DELAYED SUPPLIES SUBJECT TO MAXIMUM

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OF 10% OF THE VALUE OF RESPECTIVE DELAYED SUPPLIES.

VALUE OF DELAYED SUPPLIES WILL MEAN THE GROSS VALUE PAYABLE TO THE VENDOR (BEFORE LD) AGAINST SUCH SUPPLIES EXCLUDING TAXES & DUTIES.

MSE benefits as per MSME act (such as Price preference, Payment preference etc.), will be given only to those MSE Vendors who are manufacturers of offered items against this NIT.

No MSE benefits shall be provided to Agents / Stockists / Dealers / Traders etc for the items offered but not manufactured by themselves.

For Any query regarding tender please contact following personals :

Advait Prakash , e-mail - advait@bhel.in, Contact no. - 01334285023

Monu Verma, e-mail - monu@bhel.in, Contact no. - 01334284080

Both Indian as well as foreign vendors can be participated against the tender through NIC. Please go through the BOQ comments while quoting rates.

FOR EVALUATION OF FOREIGN BIDS, THE EXCHANGE RATES (TT SELLING RATE OF SBI)

AS ON SCHEDULE DATE OF TENDER OPENING (PART-1 BID) SHALL BE CONSIDERED.

IF THE RELEVANT DAY HAPPENS TO BE A BANK HOLIDAY, THEN THE FOREX RATE AS ON THE PREVIOUS BANK (SBI) WORKING DAY SHALL BE TAKEN.

Quality requirements shall be as follows :-

For Indegenious supplies :-

Please confirm Inspection by BHEL nominated inspection agency BVIL as per

BHEL approved QP no. "QA/BE/QP/317 Rev 07". Please submit BHEL SQP

alongwith offer through NIC. QP enclosed with NIT through NIC portal.

=> For Foreign Supplies :-


Testing & certification as per Ordering drawing & specification is required.

ADVAIT PRAKASH

SR. ENGINEER

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
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: 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	FOR CUSTOMER USE	APPROVED BY 	SACHIN JAIN 2021.07.13 16:22:18 +05'30'

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		DRG. NO.	AS PER PO		REV.	07								
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		REV	AS PER PO		Page 2 of 2									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS		
1	2	3	4	5	6	7	8	9	D	M	B	N	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	Docu ments	√	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.

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