

DETAILED SPECIFICATION

Ref No. SWM/TC/CE/1718/01

S. NO.	DESCRIPTION FOR BHEL REQUIREMENT			ACTION BY	OFFERED	DEVIATIONS	REMARKS
1.0	PURPOSE:						
1.1	Solution for Measurement of low resistance			VENDOR TO CONFIRM			
1.0	SCOPE						
1.1	Supply of Micro-Ohm meter along with measurement connection lead and power cable.			VENDOR TO CONFIRM			
1.2	Minimum 1 years warranty			VENDOR TO SPECIFY			
2.0	TECHNICAL SPECIFICATIONS						
2.1	Micro-Ohm meter		1 No	VENDOR TO CONFIRM			
2.2.1	Resistance range	Test Current	Resolution				
2.2.1.1	0 to 2500.0 μΩ	10 Amps	0.1 μΩ	VENDOR TO CONFIRM			
2.2.1.2	0 to 25.000 mΩ	1 Amps	1 μΩ	VENDOR TO CONFIRM			
2.2.1.3	0 to 250.00 mΩ	100 mAmps or higher	10 μΩ	VENDOR TO CONFIRM			
2.2.1.4	0 to 2500.0 mΩ	10 mA or higher	100 μΩ	VENDOR TO CONFIRM			
2.2.1.5	0 to 25.000 Ω	1 mA or higher	1 mΩ	VENDOR TO CONFIRM			
2.2.1.6	0 to 250.00 Ω	0.1 mA or higher	10 mΩ	VENDOR TO CONFIRM			
2.2.1.7	0 to 2500.0 Ω	0.1 mA or higher	100 mΩ	VENDOR TO CONFIRM			
2.2.2	Accuracy	+/- 0.2 %		VENDOR TO CONFIRM			
2.2.3	Battery Type	6V, 7AH, Sealed lead acid		VENDOR TO CONFIRM			
2.2.4	Voltage Input Range	90-264V DC, 50-60 Hz		VENDOR TO CONFIRM			
2.2.5	Mode Selection	Rotary Switch		VENDOR TO CONFIRM			
2.2.6	Range Selection	Rotary Switch		VENDOR TO CONFIRM			
2.2.7	Safety Rating	IEC61010-1, CAT III 300V		VENDOR TO CONFIRM			
2.2.8	Maximum lead resistance	100 mΩ total for 10A operation, irrespective of battery condition		VENDOR TO CONFIRM			
2.2.9	Temperature Coefficient	<0.01 % per °C, from 5 °C to 40 °C		VENDOR TO CONFIRM			
2.2.10	Storage temp	-10°C to 60°C		VENDOR TO CONFIRM			
2.2.11	Operating temp	0°C to 50°C		VENDOR TO CONFIRM			
2.2.12	Humidity	<80% RH		VENDOR TO CONFIRM			
2.2.13	Display	Digital		VENDOR TO CONFIRM			
2.2.14	IP Rating	IP65		VENDOR TO CONFIRM			
2.2.15	Accessories included	4 Ft. DH4 Duplex Handspike with one additional set, Lid Mounted Lead Pouch and CD User Guide		VENDOR TO CONFIRM			
3.0	TOOLS FOR ERECTION, OPERATION & MAINTENANCE						
3.1	Tools and equipmt required for installation, if any, shall be brought by the vendor (on retunable basis).			VENDOR TO CONFIRM			
4.0	DOCUMENTATION : 4 Sets is required of each User/ Operation and Maintenance/Troubleshooting manual :			VENDOR TO CONFIRM			
4.1	Detailed user/Operation manual to operate the equipment			VENDOR TO CONFIRM			
4.2	Detailed Maintenance/Troubleshooting manual for diagnosis of fault with Electrical circuit diagram & Electronic PCB layout and Electronic Circuit Diagram for maintaining the instruments.			VENDOR TO CONFIRM			

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5.0	INSTALLATION & COMMISSIONING				
5.1	Supplier to take full responsibility for carrying out the commissioning and Go-LIVE of solution.	VENDOR TO CONFIRM			
6.0	PACKING				
6.1	Standard & rigid packing for all items of complete equipments, all accessories and other supplied items to avoid any damage/loss in transit. When equipment is despatched in containers, all small loose items shall be suitably packed in boxes.	VENDOR TO CONFIRM			
7	PRE BID DISCUSSION AND SITE VISIT				
	The vendor may discuss to clarify the requirement . If necessary they can also visit the shop before submitting their offer.	VENDOR TO SPECIFY			
8	Other Terms & conditions				
	Payment Terms: As per BHEL Policy	VENDOR TO CONFIRM			
9	Guarantee Period: 12 months from the date of handing over the solution	VENDOR TO CONFIRM			
10	Delivery: 5-6 weeks after releasing of purchase order	VENDOR TO CONFIRM			
11	QUALIFYING CONDITIONS:				
11.1	Only Original Equipment Manufacturers (OEM) of Micro Ohm meter or their Authorized Dealers should quote. The bidders, submitting the quotation, should also submit MAF (Manufacturer Authorization Form) / Authorization Letter from OEM.	VENDOR TO SPECIFY			
11.2	The following information is to be submitted by the Vendor about the companies where such similar system have been supplied. This is required from all the Vendors for qualification of their offer.				
11.2.1	Name of the customer/company where similar equipment is installed. (Unpriced copy of purchase order to be furnished).	VENDOR TO SPECIFY			
11.2.2	Complete postal address of the customer	VENDOR TO SPECIFY			
11.2.3	Year of commissioning	VENDOR TO SPECIFY			
11.2.4	Name and designation of the contact person of the customer	VENDOR TO SPECIFY			
11.2.4	Phone, FAX No. and email address of the contact person of the customer	VENDOR TO SPECIFY			
11.2.5	Performance certificate from the customer regarding satisfactory performance of the equipment supplied to them. The performance supplied certificate should be recently issued (i.e. its date of issue should not be more than 1 year old than from the tender opening date)	VENDOR TO SPECIFY			
11.2.6	The bidders shall submit the latest I.T.R annual report (Balance Sheet, Profit and Loss Statement) of last three years.	VENDOR TO CONFIRM			
11.2.7	BHEL reserve the right to verify information submitted by Vendor. In case the information is found to be false/incorrect the offer shall be rejected.	VENDOR TO CONFIRM			