



JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED

Directorate of Operations & Systems

GM (Rolling Stock), JMRC, 2nd Floor, Admin Building, Metro Maintenance Depot,
Near Ganga Jamuna Petrol Pump, Mansarovar, Jaipur-302020,
Tel.No.0141-5153709 (O), E-mail-gm.rs.jmrc@gmail.com

No.JMRC/O&S/RS/MNSD/STORE

Date: 03.07.2015

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Email:

Contact :

Sub: - Quotation for Contract no. JMRC/O&S/RS/MNSD/STORE for Calibration of testing and measuring instruments of Rolling Stock, Mansarovar Train Depot, JMRC.

Sir,

JMRC's intention to calibrate the various types of testing and measuring instruments as per enclosed Annexure 'A' required for precision measurements during maintenance of JMRC Trains and M&Ps. Kindly submit your sealed quotation for the work of **"Calibration of testing and measuring instruments of Rolling Stock, Mansarovar Train Depot, JMRC Jaipur-302020"** along with copy of Certificate of accreditation from NABL, Department of Science & Technology, Govt. of India for Electro technical, Mechanical & Thermal calibration. Proforma for quotation (BOQ) (Annexure-A), Terms, Conditions and Scope of Work (Annexure-B) is attached here.

Duly signed, stamped and sealed quotation may reach to the Office of General Manager/Rolling Stock, Room no.208, 2nd floor, Admin building Mansarovar Depot, near Ganga Jamuna petrol pump, Jaipur Metro Rail Corporation Ltd., Jaipur- 302020 by 21/07/2015 at 15:00 Hours positively.

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03/7/15

(Kishan singh)

General Manager/Rolling Stock

Encl:- i) BOQ (Annexure-A)

ii) Terms, Conditions and Scope of Work (Annexure-B)

LIST OF EQUIPMENTS**ANNEXURE-A**

S.No.	Description of Equipment	Qty. Nos	Unit Price Rs.	Total amount Rs.
1.	Digital Insulation Tester 1000V fluke 1587	2		
2.	clamp meter,Fluke 336	2		
3.	Megger insulation tester 5000V Fluke 1550C	1		
4.	Digital Multimeter (Special Purpose) fluke 116	1		
5.	Temperature humidity meter fluke 971	1		
6.	Digital multimeter for AC & DC Fluke 115	5		
7.	Digital Tachometer line(TM5000Ek)	2		
8.	Digital Anemometer Model Lutron AM 4201	1		
9.	L.C.R meter meco 954mk-II	1		
10.	Digital Contactless infrared Temperature meter AZ	5		
11.	Digital stroboscope with Microprocessor Model DT 2239 Lutron	1		
12.	Digital TDS meter 10-1990 ppm,Brand- milwaukee	2		
13.	Water proof PH tester 0-14,Brand milwaukee	2		
14.	Electronic Leak detector tif Brand model no.5750A	1		
15.	Vibration meter lutron(VB-8201HA)	1		
16.	Sound Level meter, Make center model no.325	1		
17.	Multi out put dc power supply APLABLQ6324	1		
18.	Variable DC power supply (0-120 volt)APLAB1285	1		
19.	Milli ohm meter motwane LR2045	1		
20.	Lux meter model lutron lx-101	2		
21.	Digital portable thermometer make fluke 62	2		
22.	Air flow velocity , temperture and humidity meter testo410-1	2		
23.	Differential pressure meter testo 510	1		
24.	Pressure meter testo 511	1		
25.	Surface Temperature meter ,make Testo 905- T2	1		
26.	Air humidity & Temperature meter Testo 605- H1	1		
27.	Ammeter 0-10 mA on dircet input and 0-1 A with suitable shunt,analog Desk stand meter meco model MR65-EDM	1		
28.	DC moving coil analog Desk stand meter meco model mr65-EDM	1		
29.	Digital mili ohmmeter meco-7002	2		
30.	Digital IR tester 5kv hand battery	1		

	motorised,make – siva			
31.	Digital clamp on earth / ground resistance tester meco-4680B	1		
32.	Analog Insulation Tester 0-100 mohms/50-500V DC,make MECO	2		
33.	Analog Insulation Tester 0-200 Mohms/10-1000V DC	2		
34.	Digital power & harmonic analyser meco PHA 5850(100A)	1		
35.	Digital multifunctional calibrator meco 90 DQ	1		
36.	Digital multimeter DC 80mv- 1000v meco 81ktrms	2		
37.	Milliamp process clamp meter fluke 771	2		
38.	Clamp on power meter APPA 138 AC/DC	3		
39.	Capacitance meter APPA-701	2		
40.	Power clamp quality meter fluke 345	1		
41.	Hand held oscilloscope with inbuilt multimeter ,fluke 124/008S	1		
42.	Digital multimeter,Fluke 287	5		
43.	Insulation tester Fluke 1550c	2		
44.	Clamp meter,fluke 376	3		
45.	Insulation Tester,Fluke 1507	2		
46.	Digital storage oscilloscope 100 mhz 4 channel TDS 2014c make tektronix	1		
47.	Digital storage oscilloscope 100 mhz 2 channel TDS 2012c make tektronix	1		
48.	Fluke voltmeter 1 AC	4		
49.	Voltmeter Fluke LVD 2	2		
50.	Motor & Phase Rotation indicator fluke 9062	2		
51.	Laser distance meter fluke 414D	2		
52.	Fluke CNX 3000 series flex true RMS AC current clamp module	2		
53.	Variable linear power supply DC 0-32V/0-5 Amp.Aplab 3205	2		
54.	Variable linear power supply DC 0-32V/0-10 Amp.Aplab 3210	2		
55.	Variable linear power supply DC 0-128V/0-5 Amp.Aplab 1285	2		
56.	Variable linear power supply DC 0-128V/0-25 Amp.Aplab 12825	2		
57.	APLAB smps based DC power supply sm 4000 series output 110V/35A	1		
58.	High voltage DC power supply 15-300V DC/0-5 A,APLAB-H0350	1		
59.	9 IN 1 Test lab/function Generator 2 ,2 channels FG 120,APLAB 4049	1		
60.	With standing Voltage Tester (0-5 KV AC)	1		
61.	Electronic Yoke Make-oriental chemical works (P) LTD.,model-ocw/cp-300	2		
62.	Variable Torque wrench (2 to 10 Nm)	4		

63.	Variable Torque wrench (10 to 50 Nm)	4		
64.	Variable Torque wrench (40 to 200 Nm)	4		
65.	Variable Torque wrench (130 to 650 Nm)	4		
66.	Tread wear measuring Gauge Make-Paragon instrumentation Engineers PVT.LTD.	2		
	Sub Total:-			
	Service Tax 14%:-			
	Total including Taxes:-			

Note: Prices are inclusive of Manpower,Tools,Transportation,all Taxes and Duties etc.

Terms & conditions (If any):-

**Signature of firms representative
(With seal of firm)**

TERMS, CONDITIONS AND SCOPE OF WORK

(CALIBRATION OF TESTING AND MEASURING INSTRUMENTS OF MANSAROVAR
DEPOT)

1. Completion Period:

The Completion period is only for one year from the day of issue of Letter of Acceptance.

2. Delivery Schedule:

All the measuring and testing instruments as per Annexure-‘A’ will be issued to the contractor for calibration in lots according to availability by JE/CS/RS/MNSD/JMRC. The contractor or his authorized representative shall lift the each lot of instruments within two days from the date of intimation and shall return each lot of instrument in good condition duly calibrated along with certificates, within seven days from the date of lifting.

3. Transportation:

The cost of calibration of instruments shall include the cost of transport of instruments.

All incidental arrangements for safe transport of instruments shall be the responsibility of the contractor.

4. Indemnity Bond:

Contractor shall submit an Indemnity Bond on non-judicial stamp of value Rs.100/- before start of work as per format given by JMRC for total value of Testing and Measuring instruments for an amount of Rs. 5 lacs. This bond will be for the safe custody of JMRC materials at the firm's premises.

5. Variation in quantity:

Quantity of instruments offered for calibration may vary as per site requirement/availability and performance at same rate as accepted by JMRC.

6. Calibration tag/sticker:

Each instrument must be identified with a suitable sticker having following details:

NAME OF FIRM	
Instrument ID	
Calibration Date	
Calibration Due Date	
Signature	
CALIBRATED	

7. Calibration and Traceability certificate:

Calibration report of each instrument to be supplied in detail for each range as specified in Annexure ‘A’. Traceability certificate of National and International level Lab for each calibrated instrument shall be supplied along with calibration report. Each calibrated instrument satisfies the requirement of ISO 9001:2008.

8. Inspection of instruments after calibration:

Inspection of instruments shall be done by the authorized representative of JMRC after receipt of the instruments in Mansarovar Depot, duly calibrated, supported by the certificate /traceability of National and International level.

9. **Acceptance Certificate:**

After the conclusion of inspection and test to the satisfaction of the JMRC representative and receipt of the same in good condition at Mansarovar Depot, an acceptance certificate of instruments received will be signed jointly.

10. **Guarantee period:**

The calibration of calibrated instruments shall be guaranteed by the contractor for a period of 12 months from the date of receipt and acceptance by the JMRC. The contractor shall give the guarantee that the instruments calibrated with traceability to National and International level Lab and satisfy the requirement of ISO-9001:2008 and if found any deviation at the time of inspection or guarantee period the contractor shall recalibrate the same instruments as per requirement at free of cost.

11. **Performance security:**

The Contractor shall furnish to the JMRC a security in the form of a Bank Guarantee for an amount equal to 10% of the contract value and valid up to 6 months beyond Defect Liability Period in accordance with General Conditions of Contract. The Bank Guarantee has to be from a Scheduled Commercial Bank based in India and FORM-D shall be used for Performance Security. The performance security is to be deposited within 30 days from the date of receipt of Letter of Acceptance (LOA), for the due fulfillment of the guarantee period. Alternatively, the contractor can have option for deduction of performance security/ Guarantee for an amount of 10% of the contract price at the time of bill payment.

12. **Penalty:**

If the contractor fails to achieve the target for calibration of instruments within contract period, a penalty @ Rs.100/- per day per item for delay will be imposed.

13. **Payment:**

- a) Payment will be made on actual work executed after satisfactory completion of work.
- b) No advance will be payable.
- c) Bills, correct in all respect, shall be submitted to JGM/RS/MNSD in duplicate along with the acceptance certificate and relevant documents, if any, for arranging payment through Sr.DGM/Finance/JMRC, subject to deduction of statutory charges/taxes/duties/levis etc. as per Govt. norms.

14. **Other conditions:**

- a) Prices are inclusive of manpower, tools, transportation, all taxes & duties etc.
- b) No T&Ps shall be issued to contractor. Any transportation if required shall be arranged by the contractor free of cost.
- c) Only authorized staff of contractor having proper identity card issued by the contractor/firm shall be permitted to enter in JMRC Mansarovar depot.
- d) The work should be carried without causing any hindrance to the users.
- e) If the contractor fails to perform satisfactorily, the contract can be terminated at any time with out assigning any reason by giving 3 days notice to the contractor.
- f) The JMRC shall have the right to make minor alterations/additions/substitution in the scope of work or issue instructions that may be deemed necessary during the period of the contract and contractor shall carry out the work in accordance with the instructions which may be given to him by authorized JMRC's representative.
- g) JMRC representative may inspect the calibration of these instruments at firm's premises.
- h) JMRC's General conditions of contract shall be applicable.