

**OFFICE OF DEPUTY SUPERINTENDING ARCHAEOLOGIST (MUSEUM)
RED FORT, DELHI-110006**

SHORT NOTICE INVITING EXPRESSION OF INTEREST

1. Introduction

The Archaeological Survey of India under the Ministry of Culture is the premiere organization for the Archaeological researches and protection of the Cultural Heritage of the nation. Maintenance of the Ancient Monuments and Archaeological Sites and Remains of national importance is prime concern of the Archaeological Survey of India. Besides, it regulates all Archaeological activities in the country, such as excavation, exploration and preservation etc. as per the provision of the Ancient Monuments and Archaeological Sites and Remains Act, 1958. The implementation of Antiquities and Art Treasures Act 1972 is another mandate given to Archaeological Survey of India. Archaeological Survey of India also runs site Museums of its own and there are altogether 45 Site Museums running under its umbrella.

The Archaeological Survey of India, Museum Branch, Delhi invites 'Expression of Interest' (EOI) in a single bid format from well experienced agencies for supply, installation, testing and commissioning of electrical materials/equipments in the Indian War Memorial Museum, Red Fort Delhi.

2. Scope of Work

Supply Installation, testing and commissioning of electrical material/equipments in Indian War Memorial Museum. The materials/equipments should be from reputed companies having ISI marks.

3. Experience

The bidder should have experience in supplying, installing, testing and commissioning of electrical materials/equipments.

4. Warranty / Guarantee

At least a guarantee/warranty may be given by the agency/company as per manufacturer's standard terms.

5. The bid shall include quotation for supply, installation, testing and commissioning of electrical materials/equipments in the following format:

**Work of General Electrical Work Repair and Maintenance at
INDIAN WAR MEMORIAL MUSEUM, RED FORT, NEW DELHI**

S.N	Description	Unit of measurement	QTY	Unit Rate	Amount
1	Supply, laying, testing and commissioning of 1100 Volt grade XLPE insulated and sheathed Al conductor cables 3.5Corex70Sq mm Al Armd	Mtr	20		
2	Supply Installation Testing & Commissioning of Chemical Earthing : GI (50 mm dia X 3 Mtr) HDGI Electrode – MTS Protection having internal strip size of 25 X 6 mm or Eq from top to bottom, the pipe thickness must be 2.0 mm or more inside filler of CCM Compound with One Bag Jam Fill Compound	Nos	2		
3	Supply Installation Testing & Commissioning of GI Earth Strip 25x5mm	Mtr	50		
4	Supply Installation Testing & Commissioning of GI Earth Wire 8Gauge	Mtr	50		
5	Supply, laying, testing and commissioning of 600 Volt grade PVC insulated and sheathed CU conductor cables 3Corex2.5Sq mm	Mtr	400		
6	Supply Installation and Testing of Following MCCB/MCB / DB of Approved Make				
7	MCB Enclosure 10Way	Nos	8		
8	32A SP MCB	Nos	18		

9	20A SP MCB	Nos	20		
10	16A SP MCB	Nos	18		
11	10A SP MCB	Nos	25		
12	63A DP MCB	Nos	2		
13	40A DP MCB	Nos	8		
14	63A FP MCB	Nos	2		
15	100A FP MCCB with Enclosure	Nos	5		
16	Supply Installation Testing & Commissioning of PVC Insulated Single Core Unsheathed FR Confirming to IS 694:1990 for Voltage Grade of 1100Volts				
17	Wire 0.75MM	Mtr	600		
18	Wire 1.0MM	Mtr	1500		
19	Wire 1.5MM	Mtr	2500		
20	Wire 2.5MM	Mtr	1800		
27	Wire 4.0MM	Mtr	540		
22	Wire 6.0MM	Mtr	540		

	Termination Lug of Approved Make as given below Detail				
1	185Sq MM Al Ring Type	Nos	10		
2	120Sq MM Al Ring Type	Nos	8		
3	50Sq MM Al Ring Type	Nos	12		
4	6Sq MM CU	Nos	100		
5	4Sq MM CU	Nos	100		
6	2.5Sq MM CU	Nos	400		
7	95Sq MM AL Ring Type	Nos	6		
8	70Sq MM AL Ring Type	Nos	10		
9	Electrical Appliances and Accessories as given below				
10	Combined Box 6/16A with Sw and Skt	Nos	10		
11	3Pin Plug Top 15A	Nos	30		

12	PVC Junction Box 1" and Bend	Nos	120		
13	PVC Conduit 1"	Pkt	2		
14	MS Sattel without base 1"	Nos	180		
15	PVC Gitti	Pkt	10		
16	Wooden Screw 1.5"	Pkt	10		
17	Fan Regulator	Nos	6		
18	PVC Batten/Casing Caping 1"	Mtr	40		
19	PVC Batten/Casing Caping 1/2"	Mtr	60		
20	PVC Tap (All Colours R/Y/B/Blk/Green Pack of 30)	Pkt	1		
21	Switch 6A	Nos	40		
22	Socket 6A	Nos	35		
23	Switch 16A	Nos	10		
24	Socket 16A	Nos	10		
25	Sheet 8"x 5"	Nos	12		
26	Sheet 8"x 10"	Nos	10		
27	Wooden box 10"x12"	Nos	15		
28	Flexible Conduit 1"	Roll	4		
29	Batten Holder	Nos	10		
30	Tee Cover / Round Sheet	Nos	20		
31	Brass Screw 1.5"	Pkt	5		
32	PVC Batten/Casing Caping 2"	Pkt	20		
33	Power Panel with 250A Albusbar Metering and RYB I/L Light Outdoor Type Wall Mounted	Nos	1		
34	250A TPN MCCB 50KA with Spreader and Handle	Nos	1		
35	Gland and Termination for 4Cx185Sq mm AL Armd Cable	Set	1		
36	Race Way 100MM	Mtr	10		
37	Race War 150MM	Mtr	10		
38	LED Tube Light 18Watt with fitting of approved make	Nos	5		
39	Labour Charges	LumSum	1		
	TOTAL				

6. Eligibility Criteria for applying

- (i) The applicant should have registered Agency/Organization registered in India.
- (ii) The applicant should have experience supply, installation, testing and commissioning of electrical materials/equipments.
- (iii) The applicant should have tax registration number/Pan number etc.

7. Submission of EOI

The expression of Interest should be submitted on the applicants letter head and format given at **Annexure-I** to the Deputy Superintending Archaeologist (Museums), Archaeological Survey of India, Museum Branch, Red Fort, Delhi-110006 (ph. 011-23262235, 23262237) along with EMD of rupees 10,000/- (Ten Thousand only) and tender cost of Rs. 500/- (Five Hundred only) by way of Demand Draft/Pay Order in favour of Deputy Superintending Archaeologist (Museums), ASI, Museum Branch, Red Fort, Delhi not later than 10 days from the date of advertisement in ASI's website/newspapers upto 1400 hours.

8. Selection Procedure

- (i) The bid of eligible applicants will be opened and evaluated as per standard procedure.
- (ii) EMD of Rupees 10,000/- (Ten thousand only) from of all bidders except successful bidder would be returned within 2 months after award of the work.
- (iii) The successful bidder has to provide a letter of acceptance to Archaeological Survey of India within 3 Days of receiving communication of his/her selection.
- (iv) The successful bidder will have to complete the work within 30 days in the Museum from assigning the date of work to him.
- (v) The period of validity of EOI would be 60 days after opening of the bid.
- (vi) The selection agency will have to furnish bank guarantee for an amount of 10% of the total work issued by a scheduled nationalized bank in favour of Deputy Superintending Archaeologist (Museum), Red Fort, Delhi.
- (vii) Archaeological Survey of India reserves all right to reject or accept any/all EOI application without assigning any reason, whatsoever and is not bound to award the work to the lowest bidder. Archaeological Survey of India takes no responsibility for the delay loss or non receipt of any submission or letter sent by post within the prescribed time period.

Explanatory notes

General

These explanatory notes are for guidance of contractor and field staff. Each work has its own particular requirements. Engineer in charge will be responsible for successful execution of the work as per technical specification.

- i) All electrical work should comply with latest Indian electricity act and latest Indian electricity Rules.
- ii) All electrical installation works shall conform to relevant Indian standard code of practice and carried out as per relevant safety code of practice, Guide for safety procedure in electrical works as per IS: 5216/pt 1 & 2nd /1982 shall be observed.
- iii) All components used in installation shall be of proper voltage, current and frequency.
- iv) All minor items wiz hardware items, foundation bolts, termination lugs for electrical Connection and packing material etc as required shall be deemed to have been included in the tender, whether such items are specially mentioned in the tender documents or not.

Technical Specification

Excavation of Trench

Trenching will be done in accordance with the route plan approved by authority and in straight line as far as possible, except where there is any obstruction due to sewer pipe line, water pipe line, nallah etc for which the route shall be decided by the supervisor at site.

Where there is any change in direction, suitable curve shall be provided.

The bottom of the trench shall be level and free from stones, brick bats etc. After laying of cable and placing of bricks the trench shall be filled with excavated earth free from stone particles or any other sharp edges debris. After back filling the excavated earth, the upper portion shall be properly dressed up, levelled & restored to the original condition.

Cable Trenching should be made carefully so as not to damage any other cable which is already in the digging portion of trench. It will be the responsibility of the contractor to make it good as per entire satisfaction of the owner at the cost of contractor.

Laying Procedure of Cable

The cable shall be laid as per IS code of practice Cables of different sizes and length as per site requirements XLPE cable shall be laid from LT panel/Board/pole/mast etc in the excavated trench or along the wall or structure with suitable mounting arrangements as required. The terminals of the cable shall be provided with suitable cable lugs and cable glands as per requirement. A minimum safe bending radius for all types of cables shall be taken as 15 times the overall dia of the cable. .

The XLPE cable shall be tested with 500 Volt mega before and after the laying. A loop of 4 to 5 mtr in length shall be provided near the panel / board/ pole/ mast etc. (near the cable termination point) and the armour of the cable shall be thus connected with panel body glands for proper earthing. Correct size thimbles of approved makes shall be used and crimped

Supply Box/Feeding Post

The feeder post shall be suitable for operation on 3 phase, 4 wire AC system which shall be fabricated from 16/14 swg MS sheet It shall be painted with black enamel paint over red oxide primer and panel should be Powder Coated. Hinged doors should be provided on front to enable installation & inspection of cable connections and other maintenance requirements.

The canopy will be provided on the top for stopping entry of rain water inside it. The entry / connection of cables and required inspection / removal, replacement to MCCB / MCB can be carried out at front side.

TPN Aluminium, Bus bar with insulating tape with colours red, yellow, blue and black. MCCB / MCB should be fitted on the feeder post for completing the power supply requirements and connection to the Bus bars.

Maintenance Free Earthing

Maintenance Free Earthing shall be with Environment Free Chemical. The work of making bore/pit and supply of material is covered with in quoted rates.

List of Makes for Material

1. MCCB : L&T, Schenider, ABB, Siemens
2. MCB : L&T, Schenider, ABB, Siemens HPL,MDS
- 3' Wire/Cable : Poly cab / Havells /HPL /Safe / Skytone
- 4' LED Light : Bajaj,Suraya ,Philips, NTL,Reputrd Make
- 5 Switch Socket : ISI Mark
6. Celling Fan : Crompton/Havells/HPL

FORM OF COMPLETION REPORT

(To be filled in by the contractor after completion of work and verified by the Site Supervisor indicating final measurements)

I, hereby certify that the installation detailed below has been installed by me and tested and that, to the best of my knowledge and belief, is complete in accordance with the Indian Electricity Rules and as well as the technical specification of the assigned work as per the tender documents.

The results of the tests are as under:

Name of work : Work of General Electrical Work Repair and
Maintenance at Indian War Memorial Museum Red
Fort New Delhi

Tender reference No. :

Voltage system of the electric supply :

Brief details of the electrical installation :

If the work involved erection of overhead lines and or underground cables :

Voltage of O.H. line :

Total length of OH/Line and No. of span :

Total length of underground cable /cables and size :

No. of joints , if any, with details :

Signatures and Seal of the contractor
Site

Signatures and seal of the
Supervisor

FORM OF COMPLETEION REPORT

EARTHING

Description of earthing electrodes :

No. of Earth electrodes :

Size of main earthing lead :.....

TEST RESULTS

Insulation resistance of the whole system of conductors to earth :

Insulation resistance between 'R' phase & neutral :

Insulation resistance between 'Y' phase and neutral :

Insulation resistance between 'B' phase and neutral :

Insulation resistance between 'R' & 'Y' phase conductors

Insulation resistance between 'Y & B' phase conductor :

Insulation resistance between 'B' & 'R' phase conductors :

POLARITY TEST

Polarity test of non-linked single pole switches.

EARTH CONTINUITY TEST

Maximum resistance between any point in the earth continuity conductor including metal conduit and the main earthing lead:

Signature of the contractor

Signature of Site Supervisor

FORM OF COMPLETION REPORT –2

EARTH ELECTRODE RESISTANCES;

Resistance of individual earth No.1 : ohms

2. : ohms

3. : ohms

4. : ohms

5. ohms

Overall resistance of inter connected earth electrodes :Nos.

.....Ohms

Signature of the supervisor in charge
Name & Designation

Signature of contractor
Name and Address

OFFICE OF DEPUTY SUPERINTENDING ARCHAEOLOGIST (MUSEUM)

RED FORT, DELHI

TENDER DOCUMENT BID/FINANCIAL BID

1. Name of the Registered Firm/Company:
2. Postal address of the Company:
(with Tel. Nos., E-mail etc.)
3. Name and address of the proprietor/partner/Directors:
(with Tel. Nos., E-mails etc.)
4. Registration No. of the Firm:
5. Permanent Account Number (PAN)/Service Tax No etc:
6. Details of Security Deposit (EMD) and Tender Cost:
(with date and name of the bank)

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3	Supply Installation Testing & Commissioning of GI Earth Strip 25x5mm	Mtr	50		

(ii)

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(iii)

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(iv)

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38	LED Tube Light 18Watt with fitting of approved make	Nos	5		
39	Labour Charges	LumSum	1		
	TOTAL				

I/We hereby certify that the information furnished above is true and correct to the best of my knowledge. I/we understand that in case any deviation is found in the statement at any stage, I/We will not have dealing with the department in future.

(Signature of the authorized signatory with date and seal)