



Letter No. 54 (8017) SE/AIIMS/RPR/ ४१०

Date: 03.11.2018

## EXPRESSION OF INTEREST

Expression of Interest for “**Consultancy for review, redesigning & augmentation of Electrical Power System at AIIMS Raipur for reliability, proper load distribution & protection to overcome mismatch between original design & actual requirements**” are hereby invited by the undersigned.

The duly registered Consultant/ Firm having minimum work experience of 5 years in providing similar nature of work in public building of national importance preferably Hospital Buildings.

For detail scope of work party has to visit AIIMS Raipur and understand system and shortcomings. Interested parties may visit AIIMS Raipur campus and submit interest/ plan/ presentation on or before 26/11/2018.

All relevant documents along with Printed slides of Power Point Presentation and their quotation including all taxes should be submitted to the Office of Executive Engineer, Project Cell, Hospital Administrative Block, Gate No.-1, and AIIMS Raipur on or before 26/11/2018. All the documents to be submitted by the interested parties must be self-attested. Only the Consultant/ Firm found suitable for AIIMS will be considered for acceptance of lowest bidder. Interested Consultant/ Firm shall visit this Office during office hours for any further enquiry. Tentative scope of work is attached herewith as annexure A (Scope of work is tentative, can be modified and added as per consultant/ firm recommendations).

Electrical Installations at AIIMS Raipur are as summarized below:

- 6 Nos Indoor 33 KV and 11 KV Substations
- 6 Nos 11 KV, 2000 KVA Capacity DG Sets for power backup

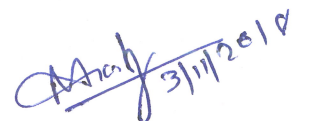
  
Er. Manoj Rastogi

Executive Engineer (Civil)

All India Institute of Medical Sciences, Raipur

Copy to:

1. The Director, AIIMS Raipur : for your kind information please.
2. The Deputy Director (Admin), AIIMS Raipur : for your kind information please.

  
Er. Manoj Rastogi

Executive Engineer (Civil)

All India Institute of Medical Sciences, Raipur

**TENTATIVE SCOPE OF WORK**

1. Party should visit the site, understand and review the electrical schemes, distribution of power via sub stations & distribution at various buildings in operation, under construction & in future likely to come from load end to supply end & collect information from SE/JE/HSCC & attend meeting.
2. Party to calculate/review present load of each buildings, rooms, halls, raising mains, UPS, sub stations etc. & future load requirement of these rooms, building and upcoming equipment's and buildings in AIIMS Campus. (party to work out revised load calculations for entire AIIMS complex)
3. Party to access existing protections, its adequacy & future plans to avoid fire in electrical circuits.
4. According to requirements any modifications / additional / replacement/relocation/up gradation etc. is required to specify for tendering specification to be given, so that turnkey tender can be proceed. Provide technical inputs for finalization of extra substitute items if any required.
5. Correction of the mistakes in DDPRC drawings (mismatches in various drawings) of all ready executed work.
6. Review the existing electrical system as per the GFC drawing versus the current updated requirement of the client for various equipment such as Radiology department, Linear Accelerator, Load requirement of Modular OT, HVAC system for hospital building and various equipment.
7. Review the existing electrical equipment capacity (Transformers, Panel, Bus duct, Cable etc.) and additional load if any may be required in future.
8. For reliability of AIIMS power supply system to be studied and to be designed to overcome any weakness.
9. Submit a detail report on electrical work considering the required changes for in principle approval of AIIMS Raipur.
10. Collection of Medical equipment loads details from AIIMS.
11. Scheme for reverse power protection relay in MRI DG sets.
12. Scheme for Additional MCCB required (OC, SC, EF release) to be installed in LT panel in substations and Floor panels and AHU panels.
13. Provide drawings, estimate, BOQ, Technical specification, Technical document for electrical augmentation of whole including civil, architecture, structure, LV, HVAC etc to complete & upgrading the system as per AIIMS latest request.
14. Desired civil modifications, to accommodation modification to be designed and location to be marked.
15. Technical recommendation for approval on datasheet wherever desired, if any required in augmentation.
16. Preparation and recommendation of preliminary design, cost estimate, drawing with necessary specification for augmentation work.
17. Provide technical specifications, estimates, BOQ.
18. Providing technical support to AIIMS Raipur for fixating the executing agency for augmentation of electrical system & allied works.
19. The firm/ consultant also provide technical assistance to AIIMS to ensure the all drawings/ design are prepared in accordance with the relevant laws of local authority I.E. rules, IS rules specification amend up to date or as per sound engineering practice if required. The fees to the local authority shall be paid direct by AIIMS if any required for augmentation.

20. Any other associated work required to complete the work should be designed if required for tendering.
21. 3 sets of hard copies & drawing in Auto-Cad to be provided.
22. All Temporary supply to be normalized by giving scheme and specification.
23. All panels to be planned for 10% spares.
24. All rising main to be studied for load & redesigned for safety & reliability.
25. Modification in electrical DPR & relevant drawing to be mentioned.
26. All future loads coming in next 5yrs in AIIMS Campus to be considered in scheme.
27. AIIMS is going for solar panels arrived 750KW in Hospital building & Medical College any additional work to be considered for redesigned.
28. Area of work is entire AIIMS campus starting from 33KV 6Pole structure to all sub stations distribution to building, rooms, halls etc. & building, outdoor light pump house basement etc.
29. Providing duly signed & stamp design & drawings of electrical system for entire hospital complex of AIIMS Raipur with allied details to complete the construction of electrical system/ augmentation electrical work.
30. Drawings/ specifications/ structure etc to be duly vetted by National Institute of Technology (signed & stamped) for entire hospital complex of AIIMS Raipur.
31. Submission of drawings / specification etc to be submitted in 45 days.
32. Necessary coordination to be done with existing Contractors.
33. All drawing specifications & works will be accordance with IE rules/IS specification.
34. Electrical DPR & drawing to be submitted to AIIMS only.(to Nodal office)
35. Power need of high power consuming equipment to be identified and need to be designed like power need of Cath Lab, CSSD, Radiology Department, Nuclear Medicine department, MGPS Plant, Fire pumps etc secured 4000A feeder for HVAC plant to be designed. Load details of rising mains to be worked out & redesigned to ensure safety and reliability.
36. Will provide technical specifications, estimates, BOQ as per DSR 2018 for electrical related work to upgrade the system.

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