Ref.: RED/PP&ESS/CJS/12 /RS/ MF/2019/ 170549

9TH SEPT 2019.

Sub: Minor Fabrication - invitation to quote.

Dear Sirs,

1. Sealed quotations are invited by undersigned for and on behalf of the President of India for the minor fabrication work as per the requirements given in the technical Specification (Annexure-I).

2. The quotation shall be complete in all respects with regard to price, specifications, completion period, validity of the offer, etc. and must reach on or before 23rd Sept 2019 by 16.00 Hrs. The quotation shall be on printed letter head in the format given as ANNEXURE II mentioning complete address, Phone numbers, fax number, PAN number/ GST registration/TIN etc., without these details quotation will be liable to be rejected. The envelope should be super scribed “Minor Fabrication” and should indicate this office Ref. No. and due date clearly. The envelope should be sealed.

3. The quotation should be sent only by Speed Post to Head, Reactor Engg. Division, Engg Hall No.07, BARC Trombay, Mumbai 400085.

I. SCOPE OF THE WORK: Disconnection, Removal & scrapping of old free standing Panels and installation, testing & commissioning of 02 Nos. POWER SUPPLY MODULES catering Power Supply to different Loads at Engg Hall no.03.(Please refer to the enclosed Annexure-I, which describes the detail specifications & scope of the work).

II. FREE ISSUE MATERIALS: Please refer Technical specifications Item III.

III. GENERAL INSTRUCTIONS

1. The earliest period by which the job can be executed in totality should be clearly stated in the quotation and such period should be strictly adhered to in the event of a work-order. However, the entire work is to be completed within 3 (Three) months reckoned from the 5th day after the date of issue of the work order, depending on the site availability.

2. Taxes, duties, if any, applicable shall be indicated separately.

3. Please note that the goods proposed to be fabricated based on this NIT (Notice Inviting Tender) is meant for research purposes of Research Institution under the Dept. of Atomic Energy. The purchaser will make available such certificate (if required and applicable) to the successful bidder with whom the work order is placed, the GST exemption certificate duly signed by the authorized officer in the Deptt of Atomic Energy well before the dispatch of the goods by the supplier.

4. Place of work: Engineering, Hall No.3 & 7, Trombay, Mumbai-85.

5. Inspection as per specification shall be carried out departmentally after the completion of the work to the satisfaction of the Engineer in-charge. Inspection regarding the work according to specification, checking of the site etc. shall be carried out continuously by the Engineer in-charge or his authorised representative.

6. The contractor shall have to maintain the area assigned to him for the work very clean and shall follow the instructions of Engineer in-charge in this regard. All equipment/tools etc. are to be removed and cleaned the area after the end of the day's work.

7. The bidders, who wish to inspect the site before quoting, may do so with prior appointment with our engineer Shri C. J. Samkutty / Shri R R Singh on telephone no. 25591590.

8. Payment will be made by cheque/ECS after satisfactory completion of the work as per Government rules.
Income Tax @ 2% will be deducted from the bill.

9). Bidder shall note that BARC is final consumer of the goods/services procured and does not intends to make any outward supply. BARC will not avail the benefits of input tax credit and hence, the good can be supplied without quoting the GSTIN of BARC, Mumbai on invoice. The invoices taxed under GST, as per rates applicable under the GST schedule of rates, will be admitted for payment.

10). GSTN Invoice: The invoice raised by the registered supplier of taxable goods/services along with other details specifically indicating: GSTN, PAN, Location of supply, tax component to be separately indicated.

11). An undertaking shall be furnished by the registered supplier that the GST has been promptly deposited with the authorities.

12). Recovery of TDS as applicable on GST in case of payment of invoices for supply items exceeding Rs.2,501.lakh.

13). With your offer please furnish the detailed information regarding whether an ex-employee of BARC is working in your organisation or whether any of your relatives is working in DAE/BARC or you are an ex-employee of DAE/BARC. In absence of such information or wrong information, the quotation or contract is likely to be rejected/cancelled.

14). Confidentiality: No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as proprietary in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub contractors, consultants, advisers or the employees engaged by the party with equal force.

15). Restricted information categories under section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under section 5 of the official secret act, 1923: Any contravention of the above mentioned provisions by any contractor, sub contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.

16). Prohibition against use of BARC’s name without permission for publicity purposes: The contractor or sub contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC’s name for any publicity purpose through any public media like press, radio, T.V. or Internet without prior approval of BARC.

17). Safety Precautions: The contractor will follow all the good industrial safety rules required during the execution of work. He will have to compulsorily follow other safety instructions issued by engineer-in-charge from time to time. The contractor shall provide all safety gears to their workmen at site and all safety rules shall be strictly followed. Any injury/accident caused to their persons while working inside BARC shall be the full responsibility of the contractor.

18). Guarantee: The work pertaining to installation, testing & commissioning of floor mounting type Power Supply Modules (PSMs) including replacement of incoming and outgoing cables and other switch gears shall be guaranteed against any defects/faulty workmanship for a period of one year from the date of completion of the work. During the above period if the items/workmanship become defective, bidder will be responsible to repair the same /replace the item at free of charge. Contractor will issue the guarantee certificate at the time of commissioning/acceptance by department, mentioning the contents of the guarantee clause as mentioned above.

19). Police Clearance: The bidder shall note that entry inside BARC is restricted and it is compulsory for contractor to get police clearance certificates (as prescribed by security section of BARC) for all his staff who will be entering BARC for work.

20). The work shall be carried out on all working days between 9.30 hrs to 18.00 hrs.

21). The offer shall be kept valid for a period of 60 days from the date of opening of the tender.

22). Purchasing authority reserves the right to alter the quantity while placing the order.

23). Department reserves the right to accept or reject any or all the quotations received without assigning any reasons whatsoever.

Encl. : (Annexure –I & II),

(A K Lal)
Head, Project Planning & Engineering Support Section
For and on behalf of President of India
TECHNICAL SPECIFICATIONS

I. SCOPE OF WORK: -

Disconnection, Removal & scrapping of old free standing electrical Panels, Installation, testing & commissioning of 02 Nos. floor mounting type Power Supply Modules (PSMs) on suitable stands, reconnection of all loads after replacing the power cables both incoming & outgoing along with some of the switch gears and other related works including earthing & stenciling etc.

II. SCHEDULE OF WORK: -

1. Isolation of Power Supply, disconnection, dismantling, removal and scrapping of the above mentioned ‘old Free Standing Panels’ and its associated incoming cable from Panel at Engg. Hall No.3.

2. Removal of all outgoing cables to individual points and demarcation and identification of all reusable feeding points like SFU/MCB/DBs wherever the old switchgear is not reusable is to be replaced with new.

3. Supply of MS Channel (75x50x6mm), Fabrication of Frame and installation of Gr. floor EOT crane & General facility Power Distribution Panel and Fluid Power Lab Power Distribution Panel on the fabricated frames (on different locations) at Engg Hall No.3. (Frame should be properly grouted/fixed with Anchor Fasteners on floor & wall including plastering etc.).

4. Laying, fixing and termination of incomer cable 3½Cx185 Sqmm FRLS Cable through trench/wall and fixing with proper accessories for Panel No.2. including supply of glands, lugs, nut bolts etc (FPL Panel)

5. Supply, Installation, termination and fixing of the 3½Cx150sqmm FRLS insulated, Armoured, Aluminium Power Cable of branded make. (specify the type & make of cable) including crimping, fixing and terminating of the incomer cable at both ends for EOT crane & Auxiliary facility Power Distribution Panel. (including supply of glands, lugs, nut bolts of required size etc)

6. Supply, Installation, termination and fixing of the 4Cx10 Sqmm FRLS insulated, Armoured, Aluminium Cable of Branded make. (specify the type & make of cable) to replace the power distribution to different DBs or switch gears. (including supply of glands, lugs, nut bolts of required size etc)

7. Supply, Installation, termination and fixing of the 4Cx06Sqmm FRLS insulated, Armoured, Aluminium Cable of Branded make (specify the type & make of cable) to replace the power distribution to different switch gears. (including supply of glands, lugs, nut bolts of required size etc)

8. Supply, Installation, termination and fixing of Legrand/Siemens make or equilant brands (Finolex/Polycab or equivalent brand. (specify the type & make of MCB) of 63A TPN MCB 4way 20A per way Distribution Boards (including supply of glands, lugs, nut bolts of required size etc) as specified including replacement of cables.

9. Supply, Installation, termination and fixing of Legrand/Siemens make or equilant brands (specify the type & make) 32A TPN MCB (including supply of glands, lugs, nut bolts of required size etc with Boxes of the same manufacturer including replacement of cables. (including supply of glands, lugs, nut bolts of required size etc)

10. Installation, fixing and termination (including supply of glands, lugs, nut bolts of required size etc) of 4Cx35 sqmm/4Cx25 sqmm cables from both the panels to different locations to DBs or SFUs or MCBs.

11. Checking of present earthing system, installation, connections, brazing and tinning of joints and providing double earthing through 25x3mm Copper earthing strip to both Panels (nut & bolts should be brass 10mmx25mm size). 8 SWG copper wire can be used for earthing to individual switches gears like DBs, SFUs MCB boxes etc. (Earthing strip and 8/14 SWG wires will be supplied by the Department, all other materials required for fixing like spacers, clamps, screws, nut bolts & materials & tools required for tinning etc are the responsibility of the Contractor).

12. Testing & commissioning of Panels and individual loads and demarcation of all loads at Panel side and load side with Stencils and black permanent markers etc.
III. GENERAL INSTRUCTIONS

1. Installation of all related fittings with supply of minor items like cable glands, copper lugs, spacers, clamps, fixtures and screws and any other items unless mentioned in the work order but required for the work is the responsibility of the contractor.

2. Minor additional work required for the aesthetic look or satisfactory function of the PSMs if any may have to be done within this contract at no extra cost.

3. All tools, welding machine, Drilling machine, ladder or any other equipment required for the work has to be brought by the contractor only.

4. Work completion will be accepted only after final testing in front of Departmental Engineer and only after stenciling is done at both Panels and at load points.

5. Drawing of free issue materials from REZ Stores at Hall No.7 and transporting them to Engg Hall No.3 is the responsibility of the Contractor.

6. The entire work shall confirm to good engineering practice and workmanship.

IV. LIST OF FREE ISSUE MATERIAL FROM THE DEPARTMENT:

1. Copper Earthing Strip/wire as required will be issued from the Department

2. Supply of 3\%Cx185 Sqmm FRLS, Armoured Aluminium Cable- 30 Mtr.

3. Supply of 3\%Cx35Sqmm FRLS insulated, Armoured, Aluminium Cable- 200 Mtr

4. Supply of 3\%Cx25Sqmm FRLS insulated, Armoured, Aluminium Cable- 200 Mtr

V. LIST OF MAJOR ITEMS TO BE SUPPLIED BY THE CONTRACTOR:

1. Supply of MS Channel size 75x50x6mm for making the frame - 25 Mtr. (approx)

2. Supply of 3 \% Cx150Sqmm FRLS insulated, Armoured, Aluminium Cable- 50 Mtr.

3. Supply of 4Cx10Sqmm FRLS insulated, Armoured, Aluminium Cable- 300 Mtr

4. Supply of 4Cx06Sqmm FRLS insulated, Armoured, Aluminium Cable- 300 Mtr

5. Supply of Legrand/Siemens make 32A TPN Distribution Board as specified - 02 No.

6. Supply of Legrand/Siemens make TPN MCB with Boxes of the same manufacturer- 06 No.
Quotation to be submitted in this Format

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Description of work</th>
<th>Quantity</th>
<th>Rate</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Supply</td>
<td>Installation</td>
</tr>
<tr>
<td>01.</td>
<td>Isolation of Power Supply, disconnection, dismantling of Panel and its accessories (as per Schedule of work, Sr No. 1).</td>
<td>02 Nos.</td>
<td></td>
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<tr>
<td>02.</td>
<td>Removal of all outgoing cables to individual points and demarcation (as per Sch. of work item no.2)</td>
<td>26 Nos.</td>
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<tr>
<td>03.</td>
<td>Supply of MS Channel size (75x50x6mm) of 25Mtrs and Fabrication of Frame and installation of both Panels at Gr floor. (as per Sch. of work item no.3)</td>
<td>02 Nos</td>
<td></td>
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<tr>
<td>04.</td>
<td>Laying, fixing and termination of incomer cable ¾Cx185 Sqmm FRLS Cable for Panel 2. (as per Sch. of work item no.4)</td>
<td>30 Mtr.</td>
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<td>05.</td>
<td>Supply, Installation, termination and fixing of the ¾Cx150sqmm FRLS for Panel No.1. (as per Sch. of work item no.5)</td>
<td>50Mtrs</td>
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<td>06.</td>
<td>Supply, Installation, termination and fixing of the 4Cx10 Sqmm FRLS cable (as per Sch. of work item no.6)</td>
<td>300 Mtrs</td>
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<td>07.</td>
<td>Supply, Installation, termination and fixing of the 4Cx06Sqmm FRLS Cable. (as per Sch. of work item no.7)</td>
<td>300 Mtrs</td>
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<td>08.</td>
<td>Supply, Installation, termination and fixing of Legrand/Siemens make 63A TPN MCB 4way 20A per way Distribution Boards (as per Sch. of work item no.8)</td>
<td>02 Nos.</td>
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<td>09.</td>
<td>Supply, Installation, termination and fixing of Legrand/Siemens make 32A TPN MCB (as per Sch. of work item no.9)</td>
<td>06 Nos.</td>
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<td>10.</td>
<td>Installation, fixing and termination of both 4Cx35 sqmm &amp; 4Cx25 sqmm (as per Sch. of work item no.10)</td>
<td>400Mtrs. (200 Mtr each)</td>
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<td>11.</td>
<td>Installation, connections for providing double earthing through 25x3mm Copper earthing strip, joint should be made by brass nut bolts and tinning on all joints (as per Sch. of work item no.11).</td>
<td>lumpsum</td>
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<tr>
<td>12.</td>
<td>Testing &amp; commissioning of Panels and individual loads etc.(as per Sch. of work item no.12).</td>
<td>lumpsum</td>
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Total
GST/Service tax
Total cost inclusive of Tax

Total cost for Supply, Installation & Commissioning (A) + (B) =