



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
उत्तर क्षेत्रीय विद्युत समिति  
Northern Regional Power Committee

NO: NRPC/OPR/107/PDMS/2018

Date: 27.09.2018

**CORRIGENDUM**

This is for information of all the bidders that based on the queries/clarifications during Pre Bid meeting certain amendments (enclosed at **Annexure**) are being made in tender documents (Ref. Tender Id: **2018\_CEA\_377966\_1** Publish Date: **30.08.2018**) for selection of bidders for e-Tender, namely: **“Creation and maintenance of web-based Protection Database Management and PC based Protection setting calculation tool for Northern Region Power System network”**.

The bidders are advised to take into consideration the enclosed amendments before submission of their bids against this tender. If any bidder has already submitted his/her bid, then he/she should resubmit his/her bid taking into account enclosed amendments/Corrigendum.

**Member Secretary, NRPC**

Sl. No.	Para / Clause under Reference as per Bid Document	Content of Original Clause	Content of Amended Clause
1	Section E.2 Database Building Activities , Point 1	One time power system network model building and its updation till the end of support period and thereafter a provision for it being updated by the authorized user, for simulating the performance/ behavior of the protection system under all possible steady state and dynamic/transient state of the power system, including effect of changing one or more settings of the relays, apparatus and network topology. The protection setting calculation Tool, apart from having the functionality of Load-Flow, Short circuit and dynamic simulations, should also have the capability of importing network from system file of available load flow software viz. PSSE (SIEMENS), DSA tools, PSCAD etc. file for the rest of the National Grid.	One time power system network model building and its updation till the end of support period and thereafter a provision for it being updated by the authorized user, for simulating the performance/ behavior of the protection system under all possible steady state and dynamic/transient state of the power system, including effect of changing one or more settings of the relays, apparatus and network topology. <b>The protection setting calculation Tool, apart from having the functionality of Load-Flow, Short circuit and dynamic simulations, should also have the capability of importing network from system file of available load flow software in common data exchange file formats such as IEEE/.csv/.xls/.txt/.xml or any other NRPC defined formats for the rest of the National Grid.</b>
2	Section E.3 Protection Calculation Setting Tool, Point No 18	Calculating overload factor, unbalance factor and discrimination time (user defined/selectable) for each relay.	<b>Calculating/checking overload factor, unbalance factor and discrimination time (user defined/selectable) for each relay.</b>
3	Section G: General Conditions of Contract clause 49 Payment schedule	Part A : ☐ 10% on submission of High level design document for implementation of web based protection management system to NRPC. ☐ 25 % of the order value on completion of Protection database and substation SLD preparation for protection study ☐ 20 % of the order value on delivery of 52 No of base license of protection calculation engine along with 52 nos of laptops ☐ 20 % of the order value on delivery of web based database management system ☐ 5 % of the order value after completion of Training program on the desktop based protection setting calculation software. ☐ 5 % of the order value on completion of Site Acceptance Tests with one pilot state system ☐ 15 % of the order value after uploading all NRPC constituents data along with SLD and Go Live.	Part A : ☐ 10% on submission of High level design document for implementation of web based protection management system to NRPC. ☐ 20 % of the order value on delivery of 52 No of base license of protection calculation engine along with 52 nos of laptops. <b>☐ 15 % of the order value on completion of operational database and performing of load flow/ short circuit studies.</b> ☐ 20 % of the order value on delivery of web based database management system ☐ 5 % of the order value after completion of Training program on the desktop based protection setting calculation software. ☐ 5 % of the order value on completion of Site Acceptance Tests with one pilot state system <b>☐ 10 % of the order value on completion of Protection database and substation SLD preparation for protection study.</b> ☐ 15 % of the order value after uploading all NRPC constituents data along with SLD and Go Live.
4	Annexure J : Format of Bank Guarantee for EMD Note Point No. 3	EMD BG Should be from a schedule commercial bank Delhi branch.	<b>EMD BG shall be from any scheduled commercial bank in favor of "NRPC Protection Database Fund" payable at Delhi.</b>

5	Section C: Instruction to Bidders Page Number 11, point 8	<p>Sr No. Milestones for the project Duration (From date of award)</p> <ol style="list-style-type: none"> <li>1. Submission of all design documents for the Protection Setting Calculation Tool Implementation: 1st month</li> <li>2. Delivery of required Hardware - servers: 3rd month</li> <li>3. Delivery of 52 Nos base license of protection calculation Tool along with 52 no. of Laptops: 4th to 8th month</li> <li>4. Protection database and substation SLD preparation for Protection Setting Calculation tool: 9th month</li> <li>5. Supply of centralized web based database management system &amp; customization: 10th to 11th month</li> <li>6. Completion of Training program on the protection setting, building the network data for load flow and fault calculations: 10th to 17th month</li> <li>7. Site Acceptance Test (SAT) with one pilot state system: 10th to 15th month</li> <li>8. Go live with all Northern Region constituents data: 16th to 18th month</li> <li>9. Defect Liability Period: 19th to 30th month</li> <li>10. Continuation of technical support services up to 5 years from completion of Defect liability period: 31st to 90th month</li> </ol>	<p>Sr No. Milestones for the project Duration (From date of award)</p> <ol style="list-style-type: none"> <li>1. Submission of all design documents for the Protection Setting Calculation Tool Implementation: 1st month</li> <li><b>2. Delivery of required Hardware - servers: 2nd month</b></li> <li><b>3. Delivery of 52 Nos base license of protection calculation Tool along with 52 no. of Laptops: 3rd to 8th month</b></li> <li><b>4. Protection database and substation SLD preparation for Protection Setting Calculation tool: Upto 15th month</b></li> <li>5. Supply of centralized web based database management system &amp; customization: 10th to 11th month</li> <li><b>6. Completion of Training program on the protection setting, building the network data for load flow and fault calculations: 3rd to 15th month</b></li> <li>7. Site Acceptance Test (SAT) with one pilot state system: 10th to 15th month</li> <li>8. Go live with all Northern Region constituents data: 16th to 18th month</li> <li>9. Defect Liability Period: 19th to 30th month</li> <li>10. Continuation of technical support services up to 5 years from completion of Defect liability period: 31st to 90th month</li> </ol>
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