

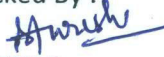







TD-106-1 Rev No. 5	Form No.		PRODUCT STANDARD PROJECT ENGINEERING & SYSTEMS DIVISION BHEL R.C PURAM, HYDERABAD -32	Doc.No: PY60054
				Rev No.: 00
				Page 1 of 6
<div style="display: flex; justify-content: space-between;"> <div style="width: 20%;"> <p style="writing-mode: vertical-rl; transform: rotate(180deg);"> COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED, It must not be used directly or indirectly in any way detrimental to the interest of the company. </p> </div> <div style="width: 80%; text-align: center;"> <h2 style="margin: 0;"> <u>TECHNICAL SPECIFICATION</u> <u>FOR SUPPLY OF</u> <u>MODULE MOUNTING STRUCTURE (MMS)</u> </h2> <div style="margin-top: 20px;"> <p> <u>PROJECT</u> : <u>1X65 MWp SPV POWER PLANT, NLC, NEYVELI, Tamilnadu</u> </p> <p> <u>CUSTOMER</u> : <u>NEYVELI LIGNITE CORPORATION LIMITED</u> </p> </div> </div> </div>				
Ref. Doc	Prepared By:  G.SESHU KIRAN	Checked By :  SURESH.P	Approved By :  J.K PATTANAIAK	Date : 08.08.16

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<p align="center"> COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company. </p>		<p> All materials shall be fabricated in shop such that welding in field shall not be required. Activities like Welding, Galvanisation, Punching of holes etc., are not allowed at site. </p> <p> D. COATING FOR STRUCTURAL STEEL WORKS </p> <p> MMS frames, post, assembly of the structures, etc. shall be of MS hot dip galvanized. Hot dip galvanization shall be as per IS: 4759 /ASTM A123 and the coating minimum thickness shall be maintained by 80 micron. </p> <p> IS: 4759 - Hot-dip zinc coatings on structural steel and other allied products </p> <p> E. SUB VENDOR FOR STRUCTURAL STEEL </p> <ol style="list-style-type: none"> Structural steel should conform to relevant Indian Standards. Structural steel should be sourced from reputed make of supplier to similar construction /infrastructure projects. <p> <i>The Bidder should furnish documentary evidence to prove above (1) & (2)</i> </p> <p> F. INSPECTION </p> <p> BHEL shall provide dispatch clearance after inspection of material and verifying that the documents are in order </p> <p> <i>For MMS Super Structure (PY9760054027):</i> </p> <p> <u>Vendor shall organize for assembly of one set (Prototype) of MMS structure components to demonstrate fitting and clearances of parts within one week after PO/LOI.</u> For the above, it is Bidder's responsibility to arrange other structural/equivalent members of MMS that are mentioned in Annexure-1 and not in bidder's scope of supply for completeness of Assembly. The manufacturing clearance for MMS Super Structure shall be furnished after review of prototype. </p> <p> G. MANUFACTURING QUALITY PLAN (MQP) </p> <p> A typical sample of MQP for the MMS items is enclosed along with this tender. Vendor shall use this document as reference for preparation and submission of test reports. Refer Annexure-2. </p> <p> H. MARKING INSTRUCTIONS </p> <p> <i>For MMS Column posts and Super Structure:</i> </p> <p> All items shall have unique identification number (Numbering system shall be furnished by BHEL after placing PO. Bidder shall ensure the same before dispatch of material to site). The identification number of each item shall be stencilled with red paint in bold letters on every part on 100% basis. </p>		
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<div style="display: flex; justify-content: space-between;"> <div style="width: 15%; border: 1px solid black; padding: 5px; transform: rotate(-90deg); transform-origin: left top; white-space: nowrap;"> COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED . It must not be used directly or indirectly in any way detrimental to the interest of the company. </div> <div style="width: 85%;"> <p>I. PACKING INSTRUCTIONS</p> <p>The MMS items shall be packed in bundles with steel straps. Necessary precautionary provisions (strips of plastic, fiber, rubber etc) shall be used to prevent the steel straps from damaging the galvanized surface. Adequate quantity of steel straps shall be provided depending upon the length of MMS items. Bundles shall be with appropriate lot quantity (50 Nos, 100 Nos etc per bundle) to facilitate ease of handling and accounting. Bundles shall be provided with name tags giving part number, quantity and month of manufacturing.</p> <p>J. NOTES TO BIDDER</p> <ol style="list-style-type: none"> a) Bidders are advised to contact BHEL for essential technical queries in writing during pre-bid stage. In case no such clarifications are sought during pre-bid stage, it will be assumed that bidder has no comments or observations on BHEL's specification and no deviations from the specifications are taken by the bidder. b) BHEL/NLC reserves the rights to carry out surveillance visits at the works of vendor/ galvanizer to check/ monitor the MMS structure manufacturing/ galvanizing processes as and when required. c) Offers with incomplete information will not be considered for evaluation, and are likely to be rejected outright without any further interaction with the Bidder. d) In the event of any conflict between these specifications, drawings, related standards, codes etc. the vendor shall refer the matter to the purchaser for clarifications during pre-bid stage. e) Quantities mentioned are tentative requirement. Based on the actual requirement, quantity can be increased or decreased by about 10% on overall qty. Final Quantity (weight) will be informed before price bid opening. Unit rates shall be applicable for the revised Quantity (weight) also. f) Fabrication drawings will be furnished order. Manufacturing clearance for Column posts of MMS (PY9760054019) will be considered from date since all fabrication drawings will furnished to successful bidders along with PO/LOI. <p>K. DELIVERY SCHEDULE (INDICATIVE)</p> <p>The schedule for delivery of items at site shall be as follows:</p> <ol style="list-style-type: none"> a) <u>For Supply of MMS columns (BHEL Material Code: PY9760054019)</u> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Schedule of Delivery</th> <th>% Quantity</th> </tr> </thead> <tbody> <tr> <td>05 weeks from PO date</td> <td>20</td> </tr> <tr> <td>09 weeks from PO date</td> <td>30</td> </tr> <tr> <td>14 weeks from PO date</td> <td>40</td> </tr> <tr> <td>18 weeks from PO date</td> <td>10</td> </tr> </tbody> </table> </div> </div>					Schedule of Delivery	% Quantity	05 weeks from PO date	20	09 weeks from PO date	30	14 weeks from PO date	40	18 weeks from PO date	10
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