






TD-106-1 Rev No. 5	Form No.		<p align="center">PRODUCT STANDARD</p> <p align="center">HYDERABAD</p> <p align="center">PROJECT ENGINEERING & SYATEMS DIVISION</p>		<p>PY55001</p> <p>Rev No. 02</p> <p>PAGE 1 of 6</p>					
<p align="center">COPYRIGHT AND CONFIDENTIAL</p> <p>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 align="center"><u>TECHNICAL SPECIFICATIONS FOR EARTHING MATERIAL</u></p> <p>1.0 <u>PHYSICAL PROPERTIES</u></p> <p>1.1 Material Dimensions, Tolerances etc., shall be inline with mild steel as per provisions of IS 2062 as applicable on the date of enquiry.</p> <p>1.2 Hot dip galvanizing shall be done on the material as per the provisions of IS 2629 as applicable on the date of enquiry.</p> <p>1.3 Minimum 75 microns of Zinc coating shall be ensured during galvanizing. This is in addition to provisions of IS 4759 as applicable on the date of enquiry.</p> <p>1.4 MS rods shall be procured from reputed vendors like SAIL / RINL / TISCO/ JINDAL / ESSAR STEEL.</p> <p>2.0 <u>STANDARD LENGTH:</u></p> <p>2.1 GI strips shall be delivered in lengths of 5.5m ± 0.25m.</p> <p>2.2 GI wires shall be delivered in 100 meters rolls.</p> <p>2.3 MS rods shall be delivered in lengths of 6.0m without any –ve tolerance.</p> <p>3.0 <u>TESTS</u></p> <p>Following tests will be conducted in presence of purchaser/purchaser representative:</p> <p>Inspection of dimensions, finish surface defects, thickness & uniformity of zinc coating ,adhesion test as per provisions of IS2062, 2629, 2633 as applicable on the date of enquiry.</p> <p>Test certificates for the same shall be furnished, establishing the suitability of material, In 6 sets for our records within one week after the inspection.</p> <p>Test certificate for chemical & physical properties of Raw materials i.e. Steel Flats/Wire/Rods shall be tested as per IS-2062 from NABL approved lab/government approved laboratory and same shall be made available by vendor at the time of inspection.</p>								
		<table border="1"> <tr> <td>Ref. Doc</td> <td> Revisions : Refer to record of revisions : </td> <td> Prepared : Sd/- (G.Seshu Kiran) </td> <td> Approved : Sd/- (J.K Pattanaik) </td> <td> Date : 27-04-2013 </td> </tr> </table>				Ref. Doc	Revisions : Refer to record of revisions :	Prepared : Sd/- (G.Seshu Kiran)	Approved : Sd/- (J.K Pattanaik)	Date : 27-04-2013
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<div> 4.0 BHEL MATERIAL CODIFICATION <table border="1"> <thead> <tr> <th>VAR NO</th> <th>DESCRIPTION OF THE MATERIAL</th> <th>BHEL MATERIAL CODE</th> <th>APPROX. WT/METRE (KG)</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>75 x 10mm GI STRIP</td> <td>PY9755001018</td> <td>5.89</td> </tr> <tr> <td>02</td> <td>50 x 6mm GI STRIP</td> <td>PY9755001026</td> <td>2.36</td> </tr> <tr> <td>03</td> <td>35 x 6mm GI STRIP</td> <td>PY9755001034</td> <td>1.65</td> </tr> <tr> <td>04</td> <td>25 x 6mm GI STRIP</td> <td>PY9755001042</td> <td>1.18</td> </tr> <tr> <td>05</td> <td>8SWG GI WIRE (STRANDED)</td> <td>PY9755001050</td> <td>0.099</td> </tr> <tr> <td>06</td> <td>8SWG GI WIRE (SOLID)</td> <td>PY9755001069</td> <td>0.099</td> </tr> <tr> <td>07</td> <td>3/8" dia GI FINE WIRE ROPE</td> <td>PY9755001077</td> <td>0.56</td> </tr> <tr> <td>08</td> <td>5/8" dia GI FINE WIRE ROPE</td> <td>PY9755001085</td> <td>1.54</td> </tr> <tr> <td>09</td> <td>25 x 3mm GI STRIP</td> <td>PY9755001093</td> <td>0.59</td> </tr> <tr> <td>10</td> <td>40mm dia MS ROD</td> <td>PY9755001107</td> <td>10</td> </tr> <tr> <td>11</td> <td>65mm dia MS ROD</td> <td>PY9755001115</td> <td>26</td> </tr> <tr> <td>12</td> <td>32mm dia MS ROD</td> <td>PY9755001123</td> <td>6.5</td> </tr> <tr> <td>13</td> <td>16SWG GI WIRE (STRANDED)</td> <td>PY9755001131</td> <td>0.198</td> </tr> <tr> <td>14</td> <td>16SWG GI WIRE (SOLID)</td> <td>PY9755001140</td> <td>0.198</td> </tr> <tr> <td>15</td> <td>50 x 10mm GI STRIP</td> <td>PY9755001158</td> <td>3.93</td> </tr> </tbody> </table> </div>					VAR NO	DESCRIPTION OF THE MATERIAL	BHEL MATERIAL CODE	APPROX. WT/METRE (KG)	01	75 x 10mm GI STRIP	PY9755001018	5.89	02	50 x 6mm GI STRIP	PY9755001026	2.36	03	35 x 6mm GI STRIP	PY9755001034	1.65	04	25 x 6mm GI STRIP	PY9755001042	1.18	05	8SWG GI WIRE (STRANDED)	PY9755001050	0.099	06	8SWG GI WIRE (SOLID)	PY9755001069	0.099	07	3/8" dia GI FINE WIRE ROPE	PY9755001077	0.56	08	5/8" dia GI FINE WIRE ROPE	PY9755001085	1.54	09	25 x 3mm GI STRIP	PY9755001093	0.59	10	40mm dia MS ROD	PY9755001107	10	11	65mm dia MS ROD	PY9755001115	26	12	32mm dia MS ROD	PY9755001123	6.5	13	16SWG GI WIRE (STRANDED)	PY9755001131	0.198	14	16SWG GI WIRE (SOLID)	PY9755001140	0.198	15	50 x 10mm GI STRIP	PY9755001158	3.93
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Ref. Doc		<p>(b) DEVIATION SCHEDULE (TECHNICAL)</p> <p>Enquiry No. Date : Name of the Bidder : Project : Specification No : PY55001, Rev-02 Item : Earthing Material</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Clause.no. & Spec.no</th> <th>Description as per specification</th> <th>Deviation taken</th> <th>Nature of Deviation</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>NOTES</p> <ol style="list-style-type: none"> Deviation to tender documents, if any, shall be indicated only in this schedule. Deviations, if any, shall be clearly brought out only in this format. Deviations mentioned / taken elsewhere or in any other format will be ignored. The vendor, if necessary can attach additional sheets in the same format. Nature of Deviations shall only be of Design / Manufacturing constraints and non-availability of items / components / makes in market. No price implications shall be entertained for deviations withdrawn during the technical scrutiny. If any deviations are accepted by BHEL during technical scrutiny then also there will be no price implication. Hence, in no case there will be consideration of Price implications. Reasons for the deviations shall be specified in the Remarks column. If there are no deviations from the specifications, bidder still has to submit the Deviation Schedule by writing <u>"NO Deviations"</u> in this format. If the "Deviation Schedule" is not submitted along with the offer, the bidder's offer is likely to be rejected without any further interaction with the bidder. Only the accepted deviations in conjunction with the original tender shall constitute the contract document for the award of job to the bidder. <p style="text-align: right;">(Signature of the Bidder with Seal)</p>				Sl. No.	Clause.no. & Spec.no	Description as per specification	Deviation taken	Nature of Deviation	Remarks												
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	Rev. No.	Date	Revision Details	Revised By	Approved By
	00	27-04-2013	ORIGINAL ISSUE	----	Sd/- J.K Pattanaik
	01	26-04-2019	Cl. 5 & 6 are Added.	A V Suresh	P Suresh
	02	17-04-2020	New Material code added	Vara Prasad	P Suresh
	Ref. Doc.				