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|--|--|---|--|--|--|--|-------------|--|------------|-------------|------------------|------------------------|----------|-----|----------------|------------------|----------------------|--------------|-----|---------|------------------|-------------------------|----------------|-----------------------------|-------------|--|-------------------------------|-----------|-------------------|--|--|--|--|---------|----|--|-----------------|--|------|------------|--|--------------------------|--|-------------------|-----------|--|---------------------|--|--|--|--|---------------|--|--|--|--|------------|--|--|--|--|-----------------------------|--|
| दिनांक एवं हस्ताक्षर SIGN & DATE |  | उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR) | ST 34002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| सामग्री सूची संख्या का अभिलेखित करना Inventory No. | SPECIFICATION FOR PROCUREMENT OF HANGER AND SUPPORTS FOR TIP | | पृष्ठ 5 का 1 Page 1 of 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BASED ON BNEL OWN EXPERIENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1.0 PROJECT INFORMATION: - The items covered under this document are intended for the piping support to be installed in the machine hall of steam turbine sets.</p> <p>2.0 SCOPE OF WORKS: - The scope of work for the vendor shall be to supply completely (which includes materials, fabrication, testing, packing and dispatch) the hanger and support items covered by this document directly to Thermal Power Station site as mentioned in the annexures with enquiry (i.e. Hangers & Supports BOMs for PGMA 13121, 13133, 13142, 13152, 13154, 13156, 13158, 13162, 13164 and 13182 whichever applicable).</p> <p>3.0 BID DRAWING: - The drawings and documents listed in the BOMs shall be considered as an integral part of the specification and all work shall be performed as shown therein. Quantity of material for hangers to be supplied as per various drawings as indicated in the respective BOMs.</p> <p>4.0 MATERIAL SPECIFICATION: - Material to be used for the manufacture of different items shall be strictly as per the drawing and vendor shall furnish per set six copies of each test certificates. See clause 12 or as agreed at the time of placing purchase order.</p> <p>5.0 WELDING REQUIREMENT: - Technical requirements for welding of different items for hangers shall be as per drawings. Welding of different components shall be carried out with matching electrodes with the qualified welders and approved welding procedures as per ASME sec IX.</p> <p>6.0 FABRICATION: -</p> <p>6.1 Dimensions and surface finish of all the parts shall be in accordance with corresponding drawings.</p> <p>6.2 The surface roughness designated on various drawing are Ra values.</p> <p>6.3 All fasteners shall have coarse pitch and normal (8d, 8H) grade of tolerance on threads as per IS: 4218.</p> <p>6.4 In general welding seams have been designated as per IS: 813. Symbol 'E' shown in the drawing stands for welding to be done during erection at the power station and vendor need not supply electrodes for erection welds.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| स्वामित्व अधिकार एवं गोपनीयता इस प्रलेख में दी गई सूचना भारत हेतु एल्यूमीनियम लिमिटेड की सम्पत्ति है इसका प्रयोग एवं प्रसारण रूप से किसी भी तरह प्रयोग, जो कि कम्पनी के हित में हानिकारक हो न किया जाए। | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;">नाम NAME</td> <td style="width: 20%; text-align: center;">दिनांक एवं हस्ताक्षर SIGNATURE & DATE</td> </tr> <tr> <td>MEMBER-PSC</td> <td>S.K. SONKAR</td> <td>Sandesh 28/03/22</td> <td>निर्माणकर्ता WORKED BY</td> <td>SHRI PAL</td> </tr> <tr> <td>QAX</td> <td>Manindra Kumar</td> <td>Manindra 28/3/22</td> <td>जांचकर्ता CHECKED BY</td> <td>NILESH KUMAR</td> </tr> <tr> <td>TSX</td> <td>Brageet</td> <td>Brageet 28/03/22</td> <td>समीक्षकर्ता REVIEWED BY</td> <td>SANDEEP SONKAR</td> </tr> <tr> <td>सहमत विभाग AGREED DEPTT.</td> <td>नाम NAME</td> <td>दिनांक एवं हस्ताक्षर DATE & SIGNATURE</td> <td>पर्यवेक्षणकर्ता SUPERVISED BY</td> <td>ANUJ JAIN</td> </tr> <tr> <td colspan="3" style="text-align: center;"> SUPERSEDES </td> <td colspan="2" style="text-align: center;"> स्वीकृति APPROVED BY : S.K.GUPTA (AGM/STE) </td> </tr> <tr> <td>REV.NO.</td> <td>10</td> <td></td> <td colspan="2" style="text-align: center;">Gr. NO. 8.20</td> </tr> <tr> <td>DATE</td> <td>26/03/2022</td> <td></td> <td colspan="2" style="text-align: center;">निर्माण PREPARED BY :</td> </tr> <tr> <td>CHANGE ADVICE NO.</td> <td>STE-22-25</td> <td></td> <td colspan="2" style="text-align: center;">जारी ISSUED BY :</td> </tr> <tr> <td colspan="3"></td> <td colspan="2" style="text-align: center;"> STE-TL </td> </tr> <tr> <td colspan="3"></td> <td colspan="2" style="text-align: center;"> TSX </td> </tr> <tr> <td colspan="3"></td> <td colspan="2" style="text-align: center;"> दिनांक DATE : 19.05.1982 </td> </tr> </table> | | | | | | नाम NAME | दिनांक एवं हस्ताक्षर SIGNATURE & DATE | MEMBER-PSC | S.K. SONKAR | Sandesh 28/03/22 | निर्माणकर्ता WORKED BY | SHRI PAL | QAX | Manindra Kumar | Manindra 28/3/22 | जांचकर्ता CHECKED BY | NILESH KUMAR | TSX | Brageet | Brageet 28/03/22 | समीक्षकर्ता REVIEWED BY | SANDEEP SONKAR | सहमत विभाग AGREED DEPTT. | नाम NAME | दिनांक एवं हस्ताक्षर DATE & SIGNATURE | पर्यवेक्षणकर्ता SUPERVISED BY | ANUJ JAIN | SUPERSEDES | | | स्वीकृति APPROVED BY : S.K.GUPTA (AGM/STE) | | REV.NO. | 10 | | Gr. NO. 8.20 | | DATE | 26/03/2022 | | निर्माण PREPARED BY : | | CHANGE ADVICE NO. | STE-22-25 | | जारी ISSUED BY : | | | | | STE-TL | | | | | TSX | | | | | दिनांक DATE : 19.05.1982 | |
| | | | नाम NAME | दिनांक एवं हस्ताक्षर SIGNATURE & DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEMBER-PSC | S.K. SONKAR | Sandesh 28/03/22 | निर्माणकर्ता WORKED BY | SHRI PAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QAX | Manindra Kumar | Manindra 28/3/22 | जांचकर्ता CHECKED BY | NILESH KUMAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TSX | Brageet | Brageet 28/03/22 | समीक्षकर्ता REVIEWED BY | SANDEEP SONKAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| सहमत विभाग AGREED DEPTT. | नाम NAME | दिनांक एवं हस्ताक्षर DATE & SIGNATURE | पर्यवेक्षणकर्ता SUPERVISED BY | ANUJ JAIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SUPERSEDES | | | स्वीकृति APPROVED BY : S.K.GUPTA (AGM/STE) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REV.NO. | 10 | | Gr. NO. 8.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | 26/03/2022 | | निर्माण PREPARED BY : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHANGE ADVICE NO. | STE-22-25 | | जारी ISSUED BY : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | STE-TL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | TSX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | दिनांक DATE : 19.05.1982 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| दिनांक एवं हस्ताक्षर SIGN & DATE |  | उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR) | | ST 34002 | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|-------------|-----------------------------|----------|--------------|--------------|------------|-----|--------------|-----------------------------------|--------|----|--------------------|--|--------|----|----------------------|--|--------|----|--|--|--|-----------|-----|
| | | | | पृष्ठ 5 का 2 Page 2 of 5 | | | | | | | | | | | | | | | | | | | | | | |
| सामग्री सूची संख्या INVENTORY NO. | सुपरसेड्स INVENTORY NO. | <p>7.0 GENERAL INSPECTION: - All items covered by this document shall be subjected to inspection by the purchaser and vendor shall render all possible help in this regards to the purchaser at no additional cost. Vendor shall advise purchaser promptly when items are ready for inspection.</p> <p>8.0 PACKING & PAINTING AND PRESERVATION: -</p> <p>8.1 The parts manufactured as per sub-assembly drawing and detail drawing shall be stamped/ marked with DU nos. as per the respective drawing.</p> <p>8.2 All the parts shall be carefully packed and painted with red oxide paint for transportation in such a manner that these are protected against damage and the climatic conditions to which it may be subjected in transit and storing up to 24 months. The threaded portions and machined surfaces shall be protected with grease. Painting Scheme: -</p> <table border="1"> <thead> <tr> <th>Paint (Coat)</th> <th>Paint (Type)</th> <th>No of Coat</th> <th>DFT</th> </tr> </thead> <tbody> <tr> <td>Primer Paint</td> <td>Epoxy base Zinc rich primer paint</td> <td>2 Coat</td> <td>70</td> </tr> <tr> <td>Intermediate Paint</td> <td>Epoxy TiO₂ Pigmented Polyamide Cured Paint</td> <td>1 Coat</td> <td>70</td> </tr> <tr> <td>Finish (Final) Paint</td> <td>Aliphatic Acrylic 2 Pack Polyurethane Finish Paint</td> <td>2 Coat</td> <td>75</td> </tr> <tr> <td colspan="3">DFT - Dry Film Thickness (final) in microns.</td> <td>TOTAL DFT</td> <td>215</td> </tr> </tbody> </table> <p>Shade: AS PER RAL GRAY 9002.</p> <p>8.3 Complete assembly / parts for each system should be packed in the same packing indicating shipping details as per sheet 5.</p> <p>8.4 All the stencil marks on the outside of casing shall be either of water proof material or protection by shellac or varnish to prevent obliteration during transit/storage.</p> <p>8.5 Water proof paper and felt lining of the packages shall be overlapped at seams at least 15mm and the seams shall be sealed.</p> <p>9.0 GUARANTEE: - The total positive results of the inspection / tests carried out is the deciding factor for clearance for delivery. The clearance, however, does not relieve the vendor of his responsibility for the hidden non-permissible defects which are found later.</p> <p>10.0 INSTRUCTION FOR BID PREPARATION: -</p> <p>10.1 Vendor shall essentially furnish unit rates per kg for hanger and support items (excluding variable load spring cages, dampers, constant load spring cages, riser clamp, dynamic pipe clamp, rigid struts and weld on brackets). Failure to furnish this information may render the bid liable for rejection.</p> <p>10.2 Supply of extra items not covered herein will be paid on the basis of unit rate quoted by the vendor. It shall be understood that the lump sum prices quoted shall be subjected to variation in the following event only: -</p> <ol style="list-style-type: none"> Purchaser deletes/adds any item covered under this document. Purchaser changes dimensions of items. Any variation in the lump sum prices shall be adjusted, based on the unit rate per tonne quoted by the supplier. | | | | Paint (Coat) | Paint (Type) | No of Coat | DFT | Primer Paint | Epoxy base Zinc rich primer paint | 2 Coat | 70 | Intermediate Paint | Epoxy TiO ₂ Pigmented Polyamide Cured Paint | 1 Coat | 70 | Finish (Final) Paint | Aliphatic Acrylic 2 Pack Polyurethane Finish Paint | 2 Coat | 75 | DFT - Dry Film Thickness (final) in microns. | | | TOTAL DFT | 215 |
| Paint (Coat) | Paint (Type) | No of Coat | DFT | | | | | | | | | | | | | | | | | | | | | | | |
| Primer Paint | Epoxy base Zinc rich primer paint | 2 Coat | 70 | | | | | | | | | | | | | | | | | | | | | | | |
| Intermediate Paint | Epoxy TiO ₂ Pigmented Polyamide Cured Paint | 1 Coat | 70 | | | | | | | | | | | | | | | | | | | | | | | |
| Finish (Final) Paint | Aliphatic Acrylic 2 Pack Polyurethane Finish Paint | 2 Coat | 75 | | | | | | | | | | | | | | | | | | | | | | | |
| DFT - Dry Film Thickness (final) in microns. | | | TOTAL DFT | 215 | | | | | | | | | | | | | | | | | | | | | | |
| COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company. | स्वामित्वकर्ता एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी एलेक्ट्रिकल्स लिमिटेड की सम्पत्ति है। इसका प्रयोग एवं अवलोकन केवल केवल से किया जाना चाहिए। अन्य किसी भी तरह का प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए। | दिनांक एवं हस्ताक्षर SIGN & DATE P. 5441 Sandeep 18/4/22 | REV. NO. 10 | निर्माणकर्ता WORKED BY | SHRI PAL | 28.03.22 | | | | | | | | | | | | | | | | | | | | |
| सामग्री सूची संख्या INVENTORY NO. | REV. NO. 10 | जांचकर्ता CHECKED BY | NILESH KR. | 28.03.22 | | | | | | | | | | | | | | | | | | | | | | |

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|---|--|---|---------------------------|--------------|---------|----------|
| <div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">दिनांक एवं हस्ताक्षर SIGN & DATE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">समग्री सूची संख्या INVENTORY NO.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">समग्री सूची संख्या को अधिकारिता देना है</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">स्वतंत्रतापूर्वक एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी एलेक्ट्रिकल लिमिटेड की सम्पत्ति है। इसका प्रयोग एवं अप्रयोग रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाय।</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">दिनांक एवं हस्ताक्षर SIGN & DATE</div> </div> | <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <h1 style="text-align: center;">उत्पाद मानक (हीप : हरिद्वार)</h1> <h2 style="text-align: center;">PRODUCT STANDARD (HEEP: HARIDWAR)</h2> </div> </div> | <div style="text-align: right;">ST 34002</div> <div style="display: flex; justify-content: space-between;"> <div>पृष्ठ 5 का 3</div> <div>Page 3 of 5</div> </div> | | | | |
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| <div style="writing-mode: vertical-rl; transform: rotate(180deg);">समग्री सूची संख्या INVENTORY NO.</div> | REV. NO. 10 | | निर्माणकर्ता WORKED BY | SHRIPAL | Smrital | 28.03.22 |
| | | | जांचकर्ता CHECKED BY | NILESH KUMAR | Nilesh | 28.03.22 |

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|---|--|---|---|--|----------|
| दिनांक एवं हस्ताक्षर |  | उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR) | | ST 34002 | |
| | | | | पृष्ठ 5 का 4 Page 4 of 5 | |
| SUPERSEDES INVENTORY NO बावरी सूची खाना को अधिकारिता बना है | LIST OF THE STANDARD COMPONENTS | | | | |
| COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company. | SL. No. | Description | Drawing No. | Material | |
| | 1. | Turn buckle | 41310019017 | Class-2 IS : 2004 | |
| | 2. | Clevis | 41310019013 | Class-2 IS : 2004 | |
| | 3. | Eye bolt | 41312105211 & 214 | Class-2 IS : 2004 | |
| | 4. | Coupling | 41312105212 | Class-2 IS : 2004 | |
| | 5. | Pipe | | ASTM A106 Gr. B | |
| | 6. | Pipe Clamp Assembly (Stauff Clamp) | 31314271511, 31315471001, 31312171001 & 31312171002 | Aluminum | |
| | 7. | Pipe Clamp | 31310019010, 31310099008 & 31313733011 | 13Cr M044/DIN 17155 | |
| | 8. | Pipe Clamp | 41310026001, 31310099010, 31310019008, 31310099007 & 31310019009 | Gr.B IS : 2062 | |
| | 9. | Pipe Clamp | 31310019100 | A387 Gr91 Cl2 | |
| | 10. | Threaded rods | 41310019009, 112, 116, 120, 140 & 150, 41310019012, 16, 20, 24, 30 & 36 and 41310019011 | Gr.40 C8 IS : 5517 | |
| | 11. | Plates, channel, beam, angle, T-section etc. | IS:808 | Gr.B IS : 2062 | |
| | 12. | Hexagonal Bolt | IS : 1364 | 8.8 IS:1367 & SA-193-B16/21Cr. MoV 57 | |
| | 13. | Hexagonal Nut | IS : 1364 | 8 IS:1367 & SA-194-Cr.7/24Cr. Mo5 | |
| | 14. | Lug | 41312105171 & 41312105261 | Gr.B IS:2062 | |
| | 15. | Connecting Plate | 31315305021 & 31315305022 | Gr B IS:2062 | |
| | 16. | Spring Washer | IS : 3063 | SPR.ST. IS:4072 | |
| | 17. | Asbestos Board | | CAF GR.B BS2815 | |
| | 18. | Fabric Base Sheet | | AA2241715115 | |
| | 19. | Ceramic Fibre Blanket | | GR.6,TYP-1 ASTM C892,D-96 | |
| | 20. | Shim Plate | 41312105011 | AISI304 | |
| | 21. | Anchor Bolt With Nut | 31314247111 | GALVANIZED CS | |
| | 22. | Lift Off Restraints | 41315395013 | Gr.-B IS:2062 | |
| | 23. | Round | | Gr.40C8 IS:5517 | |
| 24. | Supporting Tray | 31312112061, 31312119141, 31312171221, 31312176141, 21314273501, 31315676221, 31312131141 & 31312163141 | As per drawing | | |
| स्वतंत्राधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी एलेक्ट्रिकल्स लिमिटेड की सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए। | दिनांक एवं हस्ताक्षर SIGN & DATE <i>Sandeep 18/4/22</i> | | | | |
| सामग्री सूची संख्या INVENTORY NO. <i>P. 5441</i> | REV. NO. 10 | निर्माणकर्ता WORKED BY <i>SHRI PAL</i> | 28.03.22 | जांचकर्ता CHECKED BY <i>NILESH KUMAR</i> | 28.03.22 |

| दिनांक एवं हस्ताक्षर SIGN & DATE | | | | उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR) | | ST 34002 | | | | | | | | | |
|---|---------------------|--|---------|--|--|--------------|--|--------|---------------------|------------------------|---------|--|--|--|--|
| सामग्री सूची संख्या INVENTORY NO. | | SUPERSEDES INVENTORY NO. | | पृष्ठ 5 का 5 Page 5 of 5 | | | | | | | | | | | |
| सामग्री सूची संख्या को अधिकृत करना है | | COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company | | <div>SHIPPING LIST</div> <div>PROJECT : DRAWING NUMBER : DESCRIPTION : OF DRAWING</div> <div>SIZE OF PACKAGE : GROSS WEIGHT : NET WEIGHT : NATURE OF PACKAGE : TYPE OF STORAGE: (OPEN/SHED)</div> <div>NON ODC</div> | | | | | | | | | | | |
| इस प्रलेख में दी गई सूचना भारत हेवी एलेक्ट्रिकल लिमिटेड की सम्पत्ति है इसका प्रयोग एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाय। | | <table><tr><th>DU NO.</th><th>DESCRIPTION OF ITEM</th><th>QTY. PER SET IN NUMBER</th><th>REMARKS</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table> | | | | | | DU NO. | DESCRIPTION OF ITEM | QTY. PER SET IN NUMBER | REMARKS | | | | |
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| दिनांक एवं हस्ताक्षर SIGN & DATE | | <div>NOTE :</div> <div>1. Against package No. please indicate 2nd to 6th digit of drg. No. e.g. Drawing No. 3-13133-12000 then package No. -13133.</div> | | | | | | | | | | | | | |
| सामग्री सूची संख्या INVENTORY NO. | | REV. NO. 10 | | निर्माणकर्ता WORKED BY | | SHRI PAL | | | | | | | | | |
| P. 544 | | | | जांचकर्ता CHECKED BY | | NILESH KUMAR | | | | | | | | | |
| Sandeep 18/4/22 | | | | | | 28.03.22 | | | | | | | | | |
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