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| MATERIAL CODE<br>EL1011800012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                 |                                                                            | <b>PURCHASE SPECIFICATION FOR<br/>ELEMENTARY BOX</b> |                  |                  | ISSUE NO : 06      |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |                         |                                    |  |  |  |  |                |  | 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| <p><b>PURPOSE:</b> Elementary boxes will be used for stacking and packing of coated catalyst plate (element) as per project specifications in SCR.</p> <p><b>SCOPE:</b> Scope involves supply of elementary boxes as per drawing number EL-DG-398515649002 and of required parameters as detailed below :</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| <table border="1"> <tr> <td><b>A</b></td> <td colspan="5"><b>FABRICATION AND STAMPING OF CARBON STEEL PLATES AS PER DRAWING AND FOLLOWING SPECIFICATION</b></td> </tr> <tr> <td><b>SL NO</b></td> <td><b>PARAMETERS</b></td> <td colspan="5"><b>REQUIREMENT OF BHEL</b></td> </tr> <tr> <td>1</td> <td>Dimension</td> <td colspan="5">As per Drawing</td> </tr> <tr> <td>2</td> <td>Material</td> <td colspan="5">Carbon Steel IS 513 CR-2 (Drawing)</td> </tr> <tr> <td>3</td> <td>Thickness</td> <td colspan="5">1.2 mm</td> </tr> <tr> <td>4</td> <td>Three Sides A, B, C as shown in drawing</td> <td colspan="5">12 mm to be bent inside</td> </tr> <tr> <td>5</td> <td>Dimensional Tolerance</td> <td colspan="5">+/- 0.25 mm</td> </tr> <tr> <td>6</td> <td>Pre dispatch inspection</td> <td colspan="5">BHEL or authorized testing agency at the discretion of BHEL</td> </tr> <tr> <td>7</td> <td>Packing</td> <td colspan="5">To be done in lot size of max 1 ton with wrapping for moisture protection.</td> </tr> <tr> <td>8</td> <td>Pre dispatch inspection</td> <td colspan="5">BHEL or authorized testing agency.</td> </tr> <tr> <td colspan="7"><b>TESTING</b></td> </tr> <tr> <td>1</td> <td colspan="6">Traceability: Steel mill test report for the steel used shall be provided.</td> </tr> <tr> <td>2</td> <td colspan="6">Internal reports to be submitted for the specifications, specified from Sl. No 1 to 5 and confirmation for Sl. No 6 to 8.</td> </tr> <tr> <td colspan="7"><b>DOCUMENTATION</b></td> </tr> <tr> <td>1</td> <td colspan="6">3 sets of hard copies for all the related documents to be provided.</td> </tr> <tr> <td colspan="7"><b>TRANSPORTATION</b></td> </tr> <tr> <td>1</td> <td colspan="6">Transportation is in the scope of the supplier.</td> </tr> <tr> <td colspan="7"><b>QUALIFICATION</b></td> </tr> <tr> <td>1</td> <td colspan="6">           Bidder should have in-house fabrication and stamping facility for manufacturing of quoted item.<br/>           Bidder to submit company credentials and in-house list of machinery documents required to perform the said job.         </td> </tr> <tr> <td>2</td> <td colspan="6">           Bidder should have manufactured and supplied successfully the MS/SS fabricated/ stamping and bending items of minimum 3 Supply orders in the last 3 years.<br/>           Bidder to submit a copy of relevant documents of supply/manufacturing of fabricated and stamped items in the past.<br/>           Bidder to submit a copy of purchase orders for the supply with contact details of the customer.<br/>           BHEL reserves the right for independent verification of the reference provided.         </td> </tr> </table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                            |                                                      |                  |                  |                    | <b>A</b>   | <b>FABRICATION AND STAMPING OF CARBON STEEL PLATES AS PER DRAWING AND FOLLOWING SPECIFICATION</b> |  |  |  |  | <b>SL NO</b> | <b>PARAMETERS</b> | <b>REQUIREMENT OF BHEL</b> |  |  |  |  | 1 | Dimension | As per Drawing |  |  |  |  | 2 | Material | Carbon Steel IS 513 CR-2 (Drawing) |  |  |  |  | 3 | Thickness | 1.2 mm |  |  |  |  | 4 | Three Sides A, B, C as shown in drawing | 12 mm to be bent inside |  |  |  |  | 5 | Dimensional Tolerance | +/- 0.25 mm |  |  |  |  | 6 | Pre dispatch inspection | BHEL or authorized testing agency at the discretion of BHEL |  |  |  |  | 7 | Packing | To be done in lot size of max 1 ton with wrapping for moisture protection. |  |  |  |  | 8 | Pre dispatch inspection | BHEL or authorized testing agency. |  |  |  |  | <b>TESTING</b> |  |  |  |  |  |  | 1 | Traceability: Steel mill test report for the steel used shall be provided. |  |  |  |  |  | 2 | Internal reports to be submitted for the specifications, specified from Sl. 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No 6 to 8. |  |  |  |  |  | <b>DOCUMENTATION</b> |  |  |  |  |  |  | 1 | 3 sets of hard copies for all the related documents to be provided. |  |  |  |  |  | <b>TRANSPORTATION</b> |  |  |  |  |  |  | 1 | Transportation is in the scope of the supplier. |  |  |  |  |  | <b>QUALIFICATION</b> |  |  |  |  |  |  | 1 | Bidder should have in-house fabrication and stamping facility for manufacturing of quoted item.<br>Bidder to submit company credentials and in-house list of machinery documents required to perform the said job. |  |  |  |  |  | 2 | Bidder should have manufactured and supplied successfully the MS/SS fabricated/ stamping and bending items of minimum 3 Supply orders in the last 3 years.<br>Bidder to submit a copy of relevant documents of supply/manufacturing of fabricated and stamped items in the past.<br>Bidder to submit a copy of purchase orders for the supply with contact details of the customer.<br>BHEL reserves the right for independent verification of the reference provided. |  |  |  |  |  |
| <b>A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                  | Carbon Steel IS 513 CR-2 (Drawing)                                         |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |               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                                                                                                  | BHEL or authorized testing agency at the discretion of BHEL                |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |               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                                                                                                  | To be done in lot size of max 1 ton with wrapping for moisture protection. |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |               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                                                                                                  | BHEL or authorized testing agency.                                         |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |               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| <b>TESTING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Traceability: Steel mill test report for the steel used shall be provided.                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |               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No 1 to 5 and confirmation for Sl. No 6 to 8.                                                                                                                                                                                                                                                                                                                                              |                                                                            |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |                         |                                    |  |  |  |  |                |  |  |  |  |  |  |   |                                                                            |  |  |  |  |  |   |                                                                                                                           |  |  |  |  |  |                      |  |  |  |  |  |  |   |                                                                     |  |  |  |  |  |                       |  |  |  |  |  |  |   |                                                 |  |  |  |  |  |                      |  |  |  |  |  |  |   |                                                                                                                                                                                                                    |  |  |  |  |  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |
| <b>DOCUMENTATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 sets of hard copies for all the related documents to be provided.                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                            |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |               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| <b>TRANSPORTATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Transportation is in the scope of the supplier.                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                            |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |               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| <b>QUALIFICATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bidder should have in-house fabrication and stamping facility for manufacturing of quoted item.<br>Bidder to submit company credentials and in-house list of machinery documents required to perform the said job.                                                                                                                                                                                                                                                     |                                                                            |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |               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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bidder should have manufactured and supplied successfully the MS/SS fabricated/ stamping and bending items of minimum 3 Supply orders in the last 3 years.<br>Bidder to submit a copy of relevant documents of supply/manufacturing of fabricated and stamped items in the past.<br>Bidder to submit a copy of purchase orders for the supply with contact details of the customer.<br>BHEL reserves the right for independent verification of the reference provided. |                                                                            |                                                      |                  |                  |                    |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |             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| COPY RIGHT AND CONFIDENTIAL<br><br>The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                    | Prepared By                                          | Checked By       | Approved By      | Date               |            |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |                         |                                    |  |  |  |  |                |  |  |  |  |  |  |   |                        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RAVISHANKAR |                    | 03.01.2020 |                                                                                                   |  |  |  |  |              |                   |                            |  |  |  |  |   |           |                |  |  |  |  |   |          |                                    |  |  |  |  |   |           |        |  |  |  |  |   |                                         |                         |  |  |  |  |   |                       |             |  |  |  |  |   |                         |                                                             |  |  |  |  |   |         |                                                                            |  |  |  |  |   |                         |                                    |  |  |  |  |                |  |  |  |  |  |  |   |                                                                            |  |  |  |  |  |   |                                                                                                                           |  |  |  |  |  |                      |  |  |  |  |  |  |   |                                                                     |  |  |  |  |  |                       |  |  |  |  |  |  |   |                                                 |  |  |  |  |  |                      |  |  |  |  |  |  |   |                                                                                                                                                                                                                    |  |  |  |  |  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |

