

## BOILER DUCTING EXPANSION JOINT REPLACEMENT

| S/N | TOPPOINT NO | UNIT | PROCESSARE | Block | EQUIPMENT TAG NO.               | UNIT | QTY | EQUIPMENT TAG DESCRIPTION | EQUIPMENT TYPE                     | HORTCOD | PROBLEM TO BE SOLVED  | SPLIT SCOPE OF WORK BETWEEN PTH-MAINTECH  | Size   |
|-----|-------------|------|------------|-------|---------------------------------|------|-----|---------------------------|------------------------------------|---------|---|---|--|
| 1   | TA110-2029  | 110  | Sec-5      | 7     | 110-A-001                       | Pcs  | 14  | Utility Boiler Package    | Duct and Non-metal Expansion Joint | EXJ     | Flue Gas Duct from Boilers to FGD require Boilers SD to inspect / UTM / clean inside / replace canvas. In-scope         | <p><b>Pre Turnaround:</b></p> <ol style="list-style-type: none"> <li>Erect scaffold if require: <b>PTH</b></li> <li>Remove insulation: <b>PTH</b></li> <li>Mobilize materials: <b>PTH</b></li> </ol> <p><b>Turn around:</b></p> <ol style="list-style-type: none"> <li>Do Isolation as per blind list: <b>SUBCON</b></li> <li>Open manholes: <b>SUBCON</b></li> <li>Do ventilation set up: <b>SUBCON (Ventilation Fan provided by PTH)</b></li> <li>Arrange temporary lighting: <b>SUBCON (Lighting provided by PTH)</b></li> <li>Visual inspection at internal flue gas duct after gas test: <b>SUBCON-PTH-NSRP</b></li> <li>Clean the internal flue gas duct: <b>SUBCON</b></li> <li>Visual inspection after cleaning: <b>SUBCON-PTH-NSRP</b></li> <li>UT on marked locations: <b>PTH</b></li> <li>Remove the flue gas duct expansion jt's: <b>SUBCON</b></li> <li>Clean the flange surface: <b>SUBCON</b></li> <li>Install back the new expansion jt's: <b>SUBCON</b></li> <li>Remove the ventilation setup: <b>SUBCON</b></li> <li>Boxup manholes: <b>SUBCON</b></li> </ol> <p><b>Post Turnaround</b></p> <ol style="list-style-type: none"> <li>Install insulation: <b>PTH</b></li> <li>Remove the scaffold: <b>PTH</b></li> </ol> | <p><b>Expansion Joint #1/#5/#9/#13:</b> 6012mm x 2467mm</p> <p><b>Expansion Joint #12:</b> 6012mm x 4162mm</p> <p><b>Expansion Joint #2/#6/#10/#14:</b> 1897mm x 1897mm</p> <p><b>Expansion Joint #3/#8/#11:</b> 1897mm x 1897mm</p> <p><b>Expansion Joint #4:</b> 6012mm x 1662mm</p> <p><b>Expansion Joint #7:</b> 6012mm x 2912mm</p> |
| 2   | AD111-6561  | 111  | Sec-5      | 7     | 111-A-001 (Expansion Joint #15) | Pcs  | 1   | Expansion Joint           | Non-metal Expansion Joint          | EXJ     | Expansion joint of bypass purge stack from Boiler #1; #2; #3 and #4 was damaged. Request to replace new expansion joint | <p><b>Pre Turnaround:</b></p> <ol style="list-style-type: none"> <li>Erect scaffold if require: <b>PTH</b></li> <li>Remove insulation: <b>PTH</b></li> <li>Mobilize materials: <b>PTH</b></li> </ol> <p><b>Turn around:</b></p> <ol style="list-style-type: none"> <li>Do Isolation as per blind list: <b>SUBCON</b></li> <li>After the bypass purge stack removed: <b>BY OTHER CONTRACTOR (WE)</b></li> <li>Remove the flue gas duct expansion jt's: <b>SUBCON</b></li> <li>Clean the flange surface: <b>SUBCON</b></li> <li>Install back the new expansion jt's: <b>SUBCON</b></li> <li>Boxup: <b>SUBCON</b></li> </ol> <p><b>Post Turnaround</b></p> <ol style="list-style-type: none"> <li>Install insulation: <b>PTH</b></li> <li>Remove the scaffold: <b>PTH</b></li> </ol>   | <p><b>3162mm x 1312 mm</b></p>   |