|  |  |
| --- | --- |
| **Document / Drawing Title** | 400kV Switchyard Extension : Electrical Layout Plan and Section |
| **Document / Drawing No.** | SWPL/OTPC/LAYOUT/043 |
| **Revision No.** | 1 |
| **Transmittal No.** | SWPL\_OTPC\_DTL-004 dated 28.09.2018 |
| **Contractor** | Sterling and Wilson Pvt. Ltd., Kolkata |

| **Sl No.** | **OTPC/FI Comments** | **S&W Reply dated 28.09.2018** |
| --- | --- | --- |
|  | Line Earth switch position is shown wrongly which should be revised. Refer enclosed commented drawing | Corrected in revised layout. |
| 1a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | Equipment bus to be shown in the layout | Incorporated in revised layout. |
| 2a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | Shield wire to be shown in the layout | Incorporated in revised layout. |
| 3a. | **FI Reply dated 03.10.2018:**  In legends, line style of ‘shield wire’ and ‘future’ is shown same. | **SWPL Reply dated 5 Oct 2018**  Corrected in revised layout. |
| 3b. | **FI Reply dated 09.10.2018:**  S&W reply is noted. |  |
|  | Connection between equipment and main bus to be shown with DOT in layout, same should be followed for bus risers / droppers | Incorporated in revised layout. |
| 4a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | Description and quantity units of Bill of quantity shall be revised with respect to comments given in the SLD | Incorporated in revised layout. |
| 5a. | **FI Reply dated 03.10.2018:**  CT description to be revised. | **SWPL Reply dated 5 Oct 2018**  Corrected in revised layout. |
| 5b. | **FI Reply dated 09.10.2018:**  S&W reply is noted. |  |
|  | CT polarity to be shown in sectional View | Incorporated in revised layout. |
| 6a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | Future CVT has to be relocated with reference to the sequence of existing substation. Sequence shall be Surge arrester - Proposed CVT - Future CVT - Wave Trap - and follows | Incorporated in revised layout. |
| 7a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | Section B-B has to be shown as required in below screen shot | Incorporated in revised layout. |
| 8a. | **FI Reply dated 03.10.2018:**  To be revised with respect to the specification. | **SWPL Reply dated 5 Oct 2018**  Incorporated in revised layout. |
| 8b. | **FI Reply dated 09.10.2018:**  S&W reply is noted. |  |
|  | Double tension insulator string to be shown in layout | Incorporated in revised layout. |
| 9a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | GA of CB in section is shown PIR, which has to be revised to CB without PIR | Incorporated in revised layout. |
| 10a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | Two conductor line per phase (bundled conductor plan view) to be shown in layout for all strung bus and main bus, as the conductor is Twin for strung Bus and quad for main bus.  Two conductor line per phase (Quad bundled conductor section view) to be shown in section B-B, as the conductor is quad for main bus. | Incorporated in revised layout. |
| 11a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | Post insulator Symbol in drawing and legends is not identical which has to be corrected | Incorporated in revised layout. |
| 12a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | Abbreviation of surge arrester shall be changed to SA instead of LA. | Incorporated in revised layout. |
| 13a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  | In Notes Sl.no. 6, Vendor shall be changed to "S&W" | Incorporated in revised layout. |
| 14a. | **FI Reply dated 03.10.2018:**  S&W reply is noted. |  |
|  |  | The length of the main bus to be extended is coming very small ( roughly 1 m) considering the length of the insulator string on both sides in the span of 14 m between existing and present scope tower. SWPL is proposing to remove the beam and extend the stringing of conductor at length of 68m (54+ 14)m. The layout is revised accordingly & sent for approval. |
| 15a. | **FI Reply dated 03.10.2018:**  Deviation from specification and scope (removing intermediate girder) is not acceptable. Please follow the layout as per the contract document. | **SWPL Reply dated 5 Oct 2018**  Incorporated in revised Layout. |
| 15b. | **FI Reply dated 09.10.2018:**  S&W reply is noted. |  |
|  | **Additional Comments dated 12.10.2018** |  |
| 16 | Opening Orientation of Isolator has to be in line with the existing switchyard i.e. apart from Line isolator, all other isolator’s orientation has to be changed. Revise the layout accordingly. |  |
| 17 | WT phase position should be at R & B Phase. Revise the Layout accordingly |  |
| 18 | Future Tie CVT to be shown in layout and section. |  |