



**PUNJAB STATE TRANSMISSION CORPORATION LIMITED**

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O/o SE/Planning & Communication, PSTCL, Patiala

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CIN-U40109PB2010SGCO33814

To,

Amendment No: 20/LSW/2020-21

- 1) Dy. CE/Grid Construction,  
PSTCL, Ludhiana.
- 2) Dy. CE/TS (Design),  
PSTCL, Patiala.
- 3) Dy. CE/Civil Works,  
PSTCL, Patiala.

Memo No. 58/60

/P-I/265

Dated: 12.02.2021

**Subject: - Regarding augmentation of existing 220 kV double bus bar conductor to quadruple conductor, augmentation of existing 132 kV double bus bar single conductor to twin conductor and replacement of 220 kV & 132 kV isolators at 220 kV Sarna.**

The scope of work is as follows:-

| Name of Substation | Scope of Work  | Est. Cost (Rs. Cr.) | Remarks  |
|--------------------|--|---------------------|--|
| 220 kV Sarna       | (i) Replacement of existing conductor of bus bar (A) with quad moose, and making the second bus bar (B) as quad. Conductor with (Tarantulla/quad. Moose) as per the conductor conditions, at site. | 1.617               | a) Work is being revived as per the note of Chief Engineer/P&M, PSTCL, Ludhiana dated 15.09.2020.<br>b) Workability of dismantled material may be decided by joint verification of SE/Grid Construction, PSTCL and concerned SE/P&M, PSTCL and regularization of expenditure, if any (on actual basis) shall be got done at their own end from the concerned office.<br>c) The cost has been evaluated by 10% escalation of the cost mentioned in Amendment No. 31/2018-19 being variable rates of ACSR and the base rates available are for the year 2018-19. |

|  |                       |   |
|--|-----------------------|---|
| <p>(ii) Replacement of 220 KV isolators for 11+5 (Deposit work) = 16 nos. 220 KV bays (14 no. line bays, one bus coupler bay and one T/f bay)</p>  | <p>1.1776</p>         | <p>a) Work is being revived as per the note of Chief Engineer/P&amp;M, PSTCL, Ludhiana dated 15.09.2020.<br/> b) 2 no. Isolators for each 220 KV bay corresponding to double bus shall be replaced.<br/> c) Cost of 10 no. isolators for 5 no. line bays (220 KV Dasuya Ckt-1&amp;2, 220 KV Kishanpur Ckt-1&amp;2, 220 KV Hiranagar bay) shall be borne by PGCIL as deposit work. The same shall be got deposited before commencement of work for these bays.<br/> d) Existing isolator structures shall be used.<br/> e) The cost of isolators has been gathered from TS/Design.</p> |
| <p>(iii) Replacement of 2 nos. 132 KV isolators at LV side of 100 MVA, 220/132 KV T/f T-1 corresponding to each 132 KV bus.</p>  | <p>0.03516</p>        | <p>a) Work is being revived as per the note of Chief Engineer/P&amp;M, PSTCL, Ludhiana dated 15.09.2020.<br/> b) 2 nos. Isolators for LV side (132 KV) bay corresponding to double bus shall be replaced.<br/> c) Existing isolator structures shall be used.<br/> d) The cost of isolators has been gathered from TS/Design.</p>   |
| <p>(iv) Augmentation of existing single conductor (0.4 sq. inch zebra having rated capacity 467 A) of 132 KV double bus bar with twin zebra conductor (0.4 sq. inch having rated capacity 560 A) for both 132 KV bus bars.</p> | <p>0.1045</p>         | <p>a) Work is being revived as per the note of Chief Engineer/P&amp;M, PSTCL, Ludhiana dated 15.09.2020.<br/> b) The cost has been evaluated by 10% escalation of the cost mentioned in Amendment No. 31/2018-19 being variable rates of ACSR and the base rates available are for the year 2018-19.</p>  |
| <p><b>Grand Total</b></p>  | <p><b>2.93426</b></p> |   |

The breakup of the provision in the MYT and the proposed expenditure is as below:

| Particulars of expenditure  | Provision in MYT 2020-23 (in Rs. Crores) |             |             |
|---|--|-------------|-------------|
|   | FY 2020-21                               | FY 2021-22  | FY 2022-23  |
| Expenditure approved for the head "Augmentation of bus bars, extension in control room building, providing room for second source for station battery etc." (Sr. No. 69 of MYT 2020-23) | 7.80                                     | 8.24        | 7.11        |
| Expenditure already booked to the head via amendments till date   | 3.49                                     | 0.5         | -           |
| Expenditure to the head proposed on the above said work   | 2.93426                                  | -           | -           |
| <b>Balance</b>  | <b>1.37574</b>                           | <b>7.74</b> | <b>7.11</b> |

This issues with the approval of BODs.

**Note:**

1. The estimated cost worked out above excludes labour, storage, transportation and other miscellaneous charges.
2. The originally issued Amendment No. 31/2018-19 dated 15.11.18 stands cancelled.

  
SE/Planning,  
PSTCL, Patiala.

CC: - 61/66 /P-1/265

Dated: 12.02.2021

- 1) Director/Technical, PSTCL, Patiala.
- 2) Chief Engineer/TS, PSTCL, Patiala.
- 3) Chief Engineer/P&M, PSTCL, Ludhiana.
- 4) Chief Engineer/Planning, PSPCL, Patiala.
- 5) Dy. Chief Engineer /P&M, PSTCL, Ludhiana.
- 6) Dy. Chief Engineer /P&M, PSTCL, Bathinda.