



PUNJAB STATE TRANSMISSION CORPORATION LIMITED
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O/o SE/Planning & Communication, PSTCL, Patiala
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CIN-U40109PB2010SGCO33814

Amendment No: 31 /LSW/2021-22

To

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

Memo No. 28/31 /P-II/70A/06

Dated: 21/01/2022

Subject: Proposed changes in the existing Mesh Bus system at 132 kV S/s Kangra, Dhariwal & Pathankot.

The scope of work is planned as follow:-

Sr. no.	Name of Work	Scope of Work	Est. Cost	Remarks
1	132 kV S/s Kangra.	(a) Changes to be made in switchyard to strengthen mesh system at 132 kV S/s Kangra including replacement of existing 6 no. outdated 132 kV oil circuit breaker (with inbuilt CTs) with 132 kV SF6 breakers and six sets of associated 132 kV CTs, 6 no. LBB relays with modified CT secondary connection & trip matrix of protection relays, for proper metering of the system. (b) Installation of 4 No. 132 kv line PT's.	176.65 Lacs.	i. These works has been planned to bring changes in the switchyard to strengthen mesh type system at 132 kV SS Kangra, Dhariwal and Pathankot in order to improve reliability and continuity of supply. ii. Scope of work is based as per recommendations of the committee MOM issued vide Sr.Xen/TS-VI, Patiala office memo No. 01 dated 01.01.19 (CP-7) for 132 kV Kangra and committee MOM issued vide Sr.Xen/TS-VI, Patiala office memo No. 262 dated 19.03.21 (CP-55) for 132 KV Pathankot and Dhariwal and drawings issued by O/o TS (D).
2.	132 kV S/s Pathankot	(a) Changes to be made in switchyard to strengthen mesh system at 132 kV S/s Pathankot including shifting/adjustment of existing bus isolators and CTs for creating new control bay of T-1, mounting of LAs for T-1, installation of CB for T-2, including shifting/adjustment of existing bus isolators and CTs for creating new control bay of T-4, mounting of LAs for T-4, extension of 132 kV bus bar for 132 kV connectivity for T-5 and 3 No. line PT's may be provided for each 132 kV line bay (4 Nos) for proper operation of distance protection scheme.	182.88 lacs	iii. Estimated cost has been furnished by the O/o Dy. CE/Grid Construction, Ludhiana vide his office memo No. 4489 dated 10.09.21 and memo No. 162 dated 13.01.22 & Dy. CE/Civil Works Patiala vide his office memo No. 1066 dated 10.05.21. iv. The expenditure shall be charged to the head " <u>Augmentation of bus bars, extension in control room building, providng room for second source for station battery etc.</u> ", Sr. No. 69 of MYT 2020-23 as per provision of Approved Capital Investment Plan upto year 2021-22 Expenditure allocated for the control period upto 2022-23: Rs. 23.15 Crore. Expenditure already booked via amendments till date: 14.173 Cr Expenditure to be booked for this amendment: 6.79 Cr (including EC)

3.	132 kV S/S Dhariwal	Changes to be made in switchyard to strengthen mesh system at 132 kV S/s Dhariwal including rotation of T/F T-1 (16MVA, 132/11 kV) by 180°, T-2 by 90°, erection of 132 kV bay along with the allied equipments i.e. CBs, CTs, LA's, Isolators etc.), new 66 kV bus bar along with bays may be erected connecting T-2, 3 No. line PTs may be provided for each 132 kV line bay (4 Nos) for proper operation of distance protection scheme.	233.86 lacs	Balance expenditure upto control period 2022-23: 2.187 Cr v. This cost is inclusive of Civil Work cost. vi. This work shall be included in the transmission works for the year 2021-22 & 2022-23.
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This issues with the approval of Director/Technical, PSTCL.



Dy. CE/Planning
PSTCL, Patiala.

cc: - 32/37. /P-II/70A/06

Dated: 21/01/2022.

- 1) Director/Technical, PSTCL, Patiala.
- 2) Chief Engineer/TS, PSTCL, Patiala.
- 3) Chief Engineer/P&M, PSTCL, Ludhiana.
- 4) Dy. CE/Communication, PSTCL, Ludhiana.
- 5) SE/P&M Circle, PSTCL, Amritsar.
- 6) SE/Civil Works Design, PSTCL, Patiala.

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