



**PUNJAB STATE TRANSMISSION CORPORATION LIMITED**

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O/o SE/Planning, PSTCL, Patiala

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CIN-U40109PB2010SGCO33814

To,

Amendment No: 3/2023-24

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

Memo No. 367/90

Dated: 01.08.2023

**Subject: Regarding revised scope of work at 400 kV substation Dhanansu.**

**Ref: This office amendment no 16/LSW/2021-22 issued vide memo no. 341/43 dated 27.07.2021 & amendment no.19/LSW/2021-22 issued vide memo no. 409/12 dated 01.09.2021.**

The scope of work is amended as follows:

Sr. No.	Name of substation	Existing scope of work (With MYT original Sr. Nos.)	Original Est. Cost as per cost data 2021-22 and including employee cost @ 15% and IDC @ 10.37% (on estimated project cost + employee cost) (In Cr) (C)	Revised scope of work	Revised est. cost as per cost data 2022-23 and including employee cost @ 15% and IDC @ 9.5% (on estimated project cost + employee cost) (in Cr) (E)	Remarks
	(A)	(B)		(D)	(E)	(F)
1.	400 kV Grid near Doraha (Dhanansu)	<b>132.</b> LILO of 220 kV Kohara – Sahnewal (S/C) line at 400 kV Dhanansu.  <b>(a)</b> 220 kV D/C line on D/C towers (1.837 km (approx.) Line Length (with Dhanansu – Sahnewal conductor of Moose, 0.5 sq")	3.635	LILO of 220 kV RTP-Kohara line at 220 KV S/S Ghulal, 12 km approx. (0.5 sq")  LILO of newly formed 220kV Ghulal-Kohara section at 400 KV S/S Dhanansu, 6 km approx. (0.5 sq")	20.58  10.29	<b>1.</b> The revised estimated costs in column (E) have been considered on the basis of cost data for the year 2022-23.  <b>2.</b> The cost of the work for 2 Nos. 220 kV bays at Kohara comprises of <b>Rs. 3.15 Crore</b> as intimated by Addl. SE/Grid Const. Divn. Moga vide their office memo no.

	<p>and Dhanansu – Kohara conductor of HTLS of Moose equivalent)</p> <p><b>(b)</b> 220 kV D/C line on Multi ckt towers (5.026 km (approx.) Line Length up to LILO point of existing Kohara-Sahnewal line (approx. 0.5 km from Kohara) (with Dhanansu – Sahnewal conductor of Moose, 0.5 sq" and Dhanansu – Kohara conductor of HTLS of Moose equivalent)</p> <p><b>(c)</b> Replacement of existing conductor of Kohara upto LILO point section with HTLS conductor of Moose equivalent (0.557 km).</p> <p><b>(d)</b> 220 kV D/C line on Multi ckt towers (only stringing for changing route of LILO of GGSSTP – Kohara line (0.5 sq") at Gaunsgarh, on M/ckt towers (5.026 km (approx.) line length (Moose 0.5 sq" cond.)</p>	13.973			<p>1970 dated 03.07.2023 and Rs. <b>1,16,52,204/-</b> as approved expenditure by Chief Engineer/TS, received from Addl. SE/W&amp;A vide their office memo no. 4288 dated 13.10.2022. The employee cost and IDC have been added subsequently.</p> <p>3. For 28.437 km of 220 kV Dhanansu – Doraha line, approx. 6.811 km of already existing line shall be used and the expenditure for remaining 21.957 km approx. has been mentioned at Sr. No. 2.</p> <p>4. The work of 220 kV D/C line from 400 kV Grid near Doraha to 220 kV Ikolaha (MYT original Sr. No. 134) had been replaced with work of LILO of 1 circuit of 220 kV Jamalpur (BBMB) – Ganguwal line at 220 kV bus of 400 kV Dhanansu, approx. LILO length – 8 km (0.4 sq"), D/C on D/C towers (Sr. No. 134(a)). Of this line, the section of approx. 4.8 km (0.4 sq. in) towards Dhanansu end shall be erected on Multi Circuit towers for M/s Tata Steel or some other work so as to secure the ROW.</p>
2.	<p><b>133.</b> <b>(For Doraha)</b> 220 kV D/C line on D/C towers (21.957 km (approx.) Line</p>	29.421	<b>No change in scope</b>	33.11	<p>5. This amendment constitutes the amended scope of works listed at Sr. Nos. 132, 133, 134(a) and 135 of</p>


		Length/420 sq mm ACSR Zebra) (out of the total line length of 28.437 km, 6.811 km of already existing line shall be used)				Annexure-1 of MYT control period 2023-26.  <b>6.</b> This amendment shall supersede the Amendment No. 16 dated 27.07.2021.
3.		<b>134(a).</b> LILO of 1 circuit of 220 kV Jamalpur (BBMB) – Ganguwal line at 220 kV bus of 400 kV Dhanansu, approx. LILO length – 8 km (0.4 sq”), D/C on D/C towers.	10.364	<b>No change in scope</b>	12.065	
4.		-		<b>134(b).</b> Provision of 220kV D/C line from 220kV bus of 400kV Dhanansu to 220kV S/S Gaunsgarh	0.59	
5.		<b>135.</b> 220 kV Bays 2 Nos. at Doraha, 2 Nos. at Kohara including double bus erection of 220 kV and 2 Nos. ICT bays at Dhanansu.	14.552	220 kV Bays 2 Nos. at Doraha, 2 Nos. at Ghulal, 2 Nos. at Kohara including double bus erection of 220 kV, 2 Nos. ICT bays at Dhanansu and 2 no. 220kV line bays at Dhanansu for Gaunsgarh	26.73	
		<b>Total</b>	<b>75.181</b>		<b>103.365</b>	

The revised scope in respect of ICTs at 400kV Dhanansu is as follows:

Sr. No.	Name of the Substation	Existing Scope	Revised scope	Existing Cost of project (in cr)	Approx. Revised Cost of project (in cr)	Remarks
1.	400kV S/S at Dhanansu	Establishment of 400kV AIS station along with auxiliary, control room	Establishment of 400kV AIS station along with auxiliary, control room building, Gantry	31.22	31.22	In view of this revised scope of

	building, Gantry Structure, extension provision etc. <b>Phase-1:</b> a) 1 No. 315MVA ICT to be diverted from 400kV S/S Nakodar along with its 400kV and 220kV ICT bay, along with 2 No. 100 MVA 220/66 kV power transformers.  <b>Phase-2:</b> a) 1 No. 315MVA ICT to be spared from existing PSTCL substation from Augmentation Work, along with its 400kV and 220kV ICT bay.  b) Another 1 No. 500MVA ICT shall be installed along with its 400kV and 220kV ICT bay.	Structure, extension provision etc.  <b>Phase-1:</b> a) 1 No. 500MVA ICT along with its 400kV and 220kV ICT bay along with mandatory spares, along with 2 No. 100 MVA 220/66 kV power transformers.  <b>Phase-2:</b> a) 1 No. 500MVA ICT along with its 400kV and 220kV ICT bay along with mandatory spares.	--	33.75	ICTs at 400kV Dhanansu, Sr. No. 1 of Amd. No. 19 dated 01.09.2021 stands deleted.
			--	33.75	
			44.00		
	<b>Total</b>		<b>75.22</b>	<b>98.72</b>	

This issues with the approval of Technical Committee of PSTCL comprising Director/Technical and Independent Director of PSTCL.

  
Dy. CE/Planning,  
PSTCL, Patiala

o/c Rm  
1/8/23  
01/8/23

CC: - 371/75

Dated: 01.08.2023

- 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.