List of Material/ Equipment to be provided by possible

List of	of Material/ Equipment to be provided by PSTCL-				
Sr. No.	Brief Department				
1 1	TOUNTYA, 220/66KV P/T/F- complete with the	Unit	Tentative Qty.		
	System & other allied accessories	No.	1		
1 2 1	20MVA, 66/11KV P/T/F - complete with transformer = 1.6				
		No.	1		
3	200KVA, 11/0.415KV Station T/F - complete with transformer oil	No			
4	MS Charlier 100X50mm	No.	1		
5	MS Flat 50X06mm	Kg	As per site requirement		
6	MS Round 32mm	Kg	As per site requirement		
7	G.O. Switch 11KV for station T/F	Kg	As per site requirement		
8	220KV Isolator 1600A -complete with insulators	No.	1 12		
9	220KV SF6 Breaker	No.	6		
10	220KV Line CT (Ratio: 1600-1200-800/ 1-1-1-1-1 A)	No.	12		
11	220KV T/F CT (Ratio: 600-300/ 1-1-1-1-1 A)	No.	3		
12	220KV B/C CT (Ratio: 1600-1200-800/ 1-1-1-1-1 A)	No.	3		
13	220KV Lightening Arrestors	No.	9		
14	220KV PT (220KV/3*110V)	No.	6		
15	220KV L&E Switches 1600A -complete with insulators	No.	4		
16	220KV Transformer Control Panel: AT-2 type	'No.	1		
17	220KV Transformer Control Panel: A1-2 type  220KV Line Control Panel: AL-2 type	No.	4		
18	220KV B/C Control Panel: AB-2 type	No.	1		
19	Main Marshelling Box T-200	No.	6		
20	CT Marshelling Box C-65	No.	6		
21	66KV Isolator 2000A- complete with insulators	No.	4		
22	66KV SF6 Circuit Breaker	No.	3		
23	66KV T/F CT (Ratio: 2000-1000/ 1-1-1-1-1 A)	No.	3		
24	66KV B/C CT (Ratio: 2000-1000/ 1-1-1-1-1 A)	No.	3		
25	66KV Lightening Arrestors	No.	12		
26	66KV PT (66KV/3*110V)	No.	6		
27	66KV LV Transformer Control Panel CT2RS type	No.	1		
28	66KV B/C Control Panel CB-2 type	No.	1 _		
29	Main Marshelling Box T-100	No.	3		
30	CT Marshelling Box C-50	No.	3		
31	PT/ CVT Marshelling Box P-25	No.	8		
32	15KV NCT- 600-300/1-1A	No.	1		
33	15KV NCT- 2000-1000/1-1A	No.	1		
34	11KV XLPE Cable 300 sq.mm 01 Core	Mtr.	As per site requirement		
35	Indoor type cable Box for 300 sq.mm 01 Core cable	No.	12		
36	Outdoor type cable Box for 300 sq.mm 01 Core cable	No.	12		
37	Copper Control Cable 2.5sq.mm 02 core	Mtr.	As per site requirement		
38	Copper Control Cable 2.5sq.mm 04 core	Mtr.	As per site requirement		
39	Copper Control Cable 2.5sq.mm 07 core	Mtr.	As per site requirement		
40	Copper Control Cable 2.5sq.mm 09 core	Mtr.	As per site requirement		
41	Copper Control Cable 2.5sq.mm 12 core	Mtr.	As per site requirement		
42	Copper Control Cable 2.5sq.mm 16 core	Mtr.	As per site requirement		
43	Copper Control Cable 2.5sq.mm 24 core	Mtr.	As per site requirement		
44	Copper Control Cable 2.5sq.mm 32 core	Mtr.	As per site requirement		
45	Copper Control Cable 10sq.mm 04 core	Mtr.	As per site requirement		
46	Copper Control Cable 04sq.mm 04 core	Mtr.	As per site requirement		

AEE/ Grid Const. 5/D, PSTCL, Ludhiana

AO/ Grid Const. Circle, PSTCL, Ludhiana

Addl. SE/ Grid Const. Divn. PSTCL, Patiala

## Annexure- 1 List of Material/ Equipment to be provided by PSTCL-

	Waterialy Equipment to be provided by PSTCL-			
Sr. No.	Brief Description of Material	Unit	Tentative Qty.	
	415V LT Panel (15 Circuit)	No.	1	
	LT Cable 95 sq.mm 4 core	Mtr.	As per site requirement	
	Flood Lights	No.	30	
	Al. PVC cable- 06sq.mm 02 core	Mtr.	As per site requirement	
51	GI 16mm Nut bolts for Towers, Beams, structures etc	Kg	As per site requirement	
52	GI 16mm Spring washers for Towers, Beams, structures etc	Kg	As per site requirement	
53	220KV solid core post insulator	No.	21	
54	66KV solid core post insulator	No.	17	
55	33KV post insulator For supporting NCT's MS Flat earthing etc.	No.	17	
56	11KV post insulator For supporting 11KV Jumpering etc.	No.	12	
57	ACSR Conductor- Zebra (0.4")	Mtr.	As per site requirement	
58	Disc Insulators 90kN - Antifog	No.	2928	
59	Catenary Wire	Kg	As per site requirement	
60	Catenary Clamps	No.	As per site requirement	
61	P.G. Clamps for Zebra (0.4")	No.	315	
62	Post Insulator clamp- double groove type	No.	26	
63	Post Insulator clamp- quad groove type	No.	15	
64	Single Suspension fittings for Zebra (0.4")	No.	36	
65	Double Suspension fittings for Zebra (0.4")	No.	48	
66	Double Tension fittings for Zebra (0.4")	No.	90	
67	Double Suspension fittings for Twin Zebra (0.4")	No.	30	
68	Double Tension fittings for Twin Zebra (0.4")	No.	54	
69	Aluminium Spacers for Twin Zebra (0.4")	No.	1110	
70	Aluminium Spacers for Quad Zebra (0.4") (rate considered double of twin type)	No.	360	
71	C-wedge clamps for Zebra (0.4")	No.	582	
72	T-Clamp 0.4"	No.	12	
73	Dry Chemical powder type cylinder 05 Kg	No.	6	
74	Dry Chemical powder type cylinder 09 Kg	No.	5	
75	Carbon Dioxide type cylinder 22.0/22.5 Kg	No.	2	
76	Carbon Dioxide type cylinder 09 Kg	No.	3	
77	Mechanical Foam Dual-seal type cylinder 45 Kg	No.	4	
78	Soda Acid type cylinder 09 Ltr.	No.	2	
79	Set of 10 Buckets for Water/Sand- complete with stand	Set		
80	Set of 05 Buckets for Water/Sand- complete with stand	Set	2	
81	220V DC Battey bank - 300Ah (complete with stand, acid etc.)	No.	2	
82	Battery charger 220V DC- 300AH	No.	2	
83	300AH DCDB	No.		
84	220KV Wave Trap (1250A / 1.0mH)	No.	8	
85	220KV CVT	No.	12	
86	220KV Tower ATS-1	No.	4	
87	220KV Tower ATS-2	No.	14	
88	220KV Tower ATS-3	No.		
89	220KV Beam ABS-1	No.		
90	66KV Tower CTS-1	No.		
91	66KV Tower CTS-2	No.		
92	66KVTower CTS-3	No.	7	

AEE/ Grid Const. S/D, PSTCL, Ludhlana

AO/ Grid Const. Circle, PSTCL, Ludhiana

Addi, SE/ Grid Const. Divn. PSTCL, Patlala List of Material/ Equipment to be provided by PSTC

Sr. No.	Brief Description of Material		
93	66KV Beam CBS-1	Unit	Tentative Qty.
94	220KV Peak AP-220KV	No.	21
95	66KV Peak CP-66KV	No.	As per site requirement
96	Grid Structure ASI	No.	As per site requirement
97	Grid Structure ABSC	No.	16
98	Grid Structure ABSL	No.	36
99	Grid Structure CSC	No.	30
100	Grid Structure CSI	No.	50
101	66KV Isolator 800A- complete with insulators	No.	6
102	66KV T/F CT (Ratio: 200-100/ 1-1-1-1 A)	No.	2
103	66KV HV Transformer Control P. (1917)	No.	3
104	66KV HV Transformer Control Panel CT2R type 15KV NCT- 200-100/1-1A	No.	1
105		No.	1
106	15KV NCT- 1200-600/1-1A	No.	1
107	11KV I/C VCB 1200-600/5A	No.	1
	11KV O/G VCB 400-200/5A	No.	3
108	11KV Station TF VCB	No.	1

**Note-** The above quantity reflected in the above list is purely tentative. Same should be read along with relevant drawing attached with tender enquiry. It may increase or decrease as per site conditions/ relevant drawing.

AEE/ Grid Const. S/D, PSTCL, Ludhlana AO/ Grid Const. Circle, PSTCL, Ludhlana

Addl. SE/ Grid Const. Divn. PSTCL, Patiala

## Annexure- 2 List of material of patty purchase nature which has to be arranged, supplied, fitted, erected by bidder without any additional cost for compeltion of work in all respects-

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AEE/ Grid Const. S/D, PSTCL, Ludhiana AO/ Grid Const. Circle, PSTCL, Ludhiana

Addi. SE/ Grid Const. Divn. PSTCL, Patiala

## Annexure- 2

List of material of patty purchase nature which has to be arranged, supplied, fitted, erected by bidder without any additional cost for compeltion of work in all respects-

Sr. No.	Description of Material	
and the same	All type of wooden motorial and the same and	Quantity
17	All type of wooden material such as Wooden Gutkas, Wooden Strips, Wooden hangers/spacers for Power/ control cables, etc. in all types,	As per site requirement
18	All type of additional Metallic, non-metallic & composite gasket sheets & rings such as Rubber gaskets, non asbestos gaskets, Threading gaskets, rubber rings in all sizes, types etc. that are required in addition to that supplied along with requisite power transformer for its erection purposes	As per site requirement
19	All types of brushes and cleaners such as paint brushes, cleaning bushes, metallic strand brushes, porcleain cleaners, Disc cleaners etc. in all required sizes and types etc. as per requirement of work	As per site requirement
20	All type of additional flange assembly, oil pipes & connectors, air pipes & connectors, Vaccuming pipes & connectors, dummy plates, Metallic/plastic trays, hangers etc. in all sizes and types etc. that are required additionally to that supplied along with requisite power transformer for its erection purposes	As per site requirement
21	All type of Charcoal Powders, Salts, Mositurising powders required for earthing through pits/ bores etc. except MS Round (32mm) that will be provided by PSTCL	As per site requirement
22	All other patty items (consumable and non-consumable) which are not listed but are requried at site for completion of work/ activities in all respects	As per site requirement

PSTCL, Ludhlana

AO/ Grid Const. Circle, PSTCL, Ludhiana

Addl. SE/ Grld Const. Divn. PSTCL, Patiala

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