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## KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

CIN No. U40109KA1999SGC025521

KPTCL/B28(a)/32543/2012-13

Corporate Office  
Kaveri Bhavan, K.G Road,  
Bengaluru-560 009

**Sub:** Collection of charges towards usage of KPTCL common Infrastructure utilized by the Generator for construction of Terminal Bay works carried out at KPTCL Sub-station under self execution basis.

**Ref:** 1) Board Order of even No. dated 17.08.2012.  
2) Amendment of even No. dated 25.03.2017.  
3) Board Order of even No. dated 02.08.2019.  
4) Note dated: 28.02.2019 of O/o CEE(P&C) approved by MD, KPTCL On 03.09.2020.

*EE(IT-1)*  
*a.s./k*  
*04/09/2020*

**PREAMBLE:**

As per Section 10 of Electricity Act 2003, Generator has to construct dedicated Transmission Line for evacuating power to KPTCL Grid. "Dedicated Transmission Lines" means any electric supply-line for point to point transmission which are required for the purpose of connecting electric lines or electric plants of a captive generating plant referred to in Section 9 or generating station referred to in Section 10 to any Transmission Lines or Sub-stations or Generating Stations, or the Load Centre, as the case may be. As such Generators are constructing dedicated Transmission Line from their plant to KPTCL Sub-station for evacuating power along with Terminal Bay and its associated equipments under self-execution basis.

The land required for construction of Terminal Bay is either being purchased by Generator adjacent to KPTCL Sub-station or in some cases KPTCL Sub-station land is spared to the Generator on their specific request subject to availability. In such cases One time non-refundable charges are

being collected towards the extent of the land spared as per the Board Order No. KPTCL/B28(a)/32543/12-13 dated 17-08-2012. As such, Generator utilizes some of the existing KPTCL infrastructure such as cable duct, control room, Station structure and Bus, AC supply, DC supply, Earth mat, Yard lighting etc. In order to have uniform policy regarding collection of charges towards KPTCL common Infrastructure utilized by the Generator, voltage class wise charges for construction of Terminal Bay at KPTCL Sub-station under self-execution basis are proposed.

The proposal provides for collection of One time non-refundable charges from the Generator for sparing the common KPTCL infrastructure utilized at KPTCL Sub-stations in addition to collection of One time non-refundable charges towards sparing of land in KPTCL Sub-station as per Board Order dated 17-08-2012.

Hence this order.

**Order No. KPTCL/B28(a)/32543/12-13**

**Dated: 03.09.2020**

In continuation to the Board Orders dated 17.08.2012 and 02.08.2019 cited under reference, approval is hereby accorded for collecting One time non-refundable charges from Generators for sparing the common KPTCL infrastructure utilized by the Generators as indicated in the table below. In addition, One time non-refundable charges towards sparing of land in KPTCL Sub-station (if spared) will continue to be collected as per the Board Order dated 17-08-2012.

<b>Terminal Bay of Generator</b>	<b>Charges in Rs. Lakhs as per SR 2019</b>
11kV TB at 220/110/11kV or 220/66/11kV or 110/33/11kV or 66/11kV KPTCL Sub- station	4.00
33kV TB at 110/33kV or 66/33kV KPTCL Sub-station	9.50

66kV TB at 66/11kV or 66/33kV KPTCL Sub-station	13.50
66kV TB at 220/66kV KPTCL Sub-station	16.00
110kV TB at 110/33/11kV or 110/11kV KPTCL Sub-station	15.50
110kV TB at 220/110kV KPTCL Sub-station	19.00
220kV TB at 400/220kV or 220/66kV or 220/110kV KPTCL Sub-station	36.00

This approval is subject to fulfillment of the following conditions:

- a. Admissible taxes if any (**GST**) shall be collected as notified from time to time.
- b. Charges indicated in Annexure - A & B shall be revised in accordance to revision of Schedule of Rate as and when notified.
- c. The Chief Engineer (Electy), Transmission Zone shall intimate the developer/Firm for payment of One time non-refundable charges for sparing the KPTCL common infrastructure utilized by the Generator in addition to collection of One time non refundable charges towards sparing of land in KPTCL Sub-station (if spared) as per B.O dated 17-08-2012.
- d. It shall be made clear to the Generator that KPTCL infrastructure utilized shall be at his cost and subject to payment of One time non-refundable charges without any claim whatsoever on the spared infrastructure used for constructing Terminal Bay causing no damages to KPTCL assets.
- e. This order shall be read along with B.O dated 17-08-2012.

  
Deputy General Manager (Tech.)  
KPTCL

To:

All Managing Directors, BESCOM/HESCOM/CESC/MESCOM/GESCOM.  
All Directors (Technical), BESCOM/HESCOM/CESC/MESCOM/GESCOM.  
All Chief Engineers, Electricity, KPTCL.  
All Financial Advisors, KPTCL.  
All Superintending Engineer (Elec.), Works/Maintenance/W&M Circlces, KPTCL.

All Executive Engineer (Elec.), W & M /Works/TL&SS Divisions, KPTCL.  
The Company Secretary, KPTCL, Kaveri Bhavan, Bangalore.  
SPS to Managing Director, Director (Finance), Director (Transmission), KPTCL to place  
it before the Directors for kind information.

**Copy to:**

The Superintending Engineer Elec., IT&MIS, KPTCL with a request to arrange to  
upload the order in KPTCL website.

<b>CALCULATION SHEET FOR BUS EXTENSION</b>
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**Bus Bar Formation 220kV**

Particulars	Nos	Weight in MT	Rate in Rs (as per current MWSR-2019)	Amount in Rs
2T1	1	1.6	82000	131200
2T2	1	1.4	82000	114800
75mm tube	84		1285.34	107968.56
PI's clamps- Rigid	6		1235.6	7413.6
Expansion	6		3520.39	21122.34
PI's	12		22203.61	266443.32
				<b>648947.82</b>

**Bus Bar Formation 110kV**

Particulars	Nos	Weight in MT	Rate in Rs (as per current MWSR-2019)	Amount in Rs
1T1	3	0.91	82000	223860
1B1	1	0.412	82000	33784
Drake	31.2		205000	6396
Tension string	6		6887	41322
				<b>305362</b>

**Bus Bar Formation 66kV**

Particulars	Nos	Weight in MT	Rate in Rs (as per current MWSR-2019)	Amount in Rs
6T1	3	0.91	82000	223860
6B1	1	0.412	82000	33784
Drake	22.8		205000	4674
Tension string	6		5787	34722
				<b>297040</b>

**Bus Bar Formation 66kV in 220/66kV**

Particulars	Nos	Weight in MT	Rate in Rs (as per current MWSR-2019)	Amount in Rs
6T3	1	1.18	82000	96760
6T2	1	0.412	82000	33784
63mm tube	45.6		1176.7	53657.52
PI's clamps- Rigid	6		1160.2	6961.2
Expansion	6		3273.02	19638.12
Sliding	6		979.99	5879.94
PI's	18		4403.36	79260.48
				<b>295941.26</b>

**Bus Bar Formation 110kV in 220/110kV**

Particulars	Nos	Weight in MT	Rate in Rs (as per current MWSR-2019)	Amount in Rs
1T3	1	1.18	82000	96760
1T2	1	0.412	82000	33784
75mm tube	49.2		1285.34	63238.728
PI's clamps- Rigid	6		1235.6	7413.6
Expansion	6		3520.39	21122.34
Sliding	6		1395.66	8373.96
PI's	18		9767.17	175809.06
				<b>406501.688</b>

**Bus Bar Formation 33kV**

Particulars	Nos	Weight in MT	Rate in Rs (as per current MWSR-2019)	Amount in Rs
3T1	3	0.57	82000	140220
3B1	1	0.23	82000	18860
Drake	18		205000	3690
Tension string	6		3254.52	19527.12
				<b>182297.12</b>

Note : Current MWSR-2019 is used as basis for calculation the same shall be revised in accordance to revision of SR as and when notified

BILL OF MATERIAL FOR IPP BAYS AT KPTCL SUBSTATIONS										
Sl. No	Particulars		11 kV	33 kV	66 kV	110 kV	66 kV in 220/66kV S/s	110 kV in 220/110kV S/s	220 kV Bay	Remarks
1	Area required in Sq m		MCVCB - 5 Sq m PCVCB - To be assessed as per site condition	108	221	333	334.4	410	1008	
2	Perimeter in meters			48m	78m	94m	104m	117m	172m	
3	Bay width in meters		3.7m for PCVCB 1m for MCVCB	6m	8.2m - Rigid 7.6m - Strung	8.2m - Rigid 10.4m - Strung	7.6m	8.2m	14m - 220kV 7.6m - 66kV	
4	Clearances in meters	Phase to Phase		1.5m	2.0m - Rigid & Strung	2.0m - Rigid 2.7m - Strung	2m	2m	3.65m - 220kV	
		Phase to Earth		1.5m	2.1m - Rigid 1.8m - Strung	2.1m - Rigid 2.5m - Strung	1.8m	2.1m	3.35m - 220kV	
5	Sectional Clearances in meters		1.8m	2.8m	3.1m	3.7m	3.1m	3.7m	4.6m	
6	Cable Duct (Approx length) in meters	SSY type-1	20	20	25	25	-	-	-	Approximate length of various types of cable ducts considering last bay location at the Sub-station.
		SSY type-2	50	50	50	60	-	-	-	
		A type			-	-	10	10	10	
		B type			-	-	30	25	30	
		C type			-	-	65	50	65	
		D type			-	-	50	50	75	
7	Control Room	Area req in Sq m	0.61	0.61	0.61	0.61	1.28	1.28	1.28	For installing one panel of size 1000mmX610mm at 33kV, 66kV & 110kV S/s and 02 panels of size 800mmX800mm in 220kV S/s
<b>APPROXIMATE CHARGES FOR ONE TERMINAL BAY</b>										
* Rates indicated are as per Current MWSR-2019 and the same shall be revised in accordance to revision of SR as and when notified										
Figures in Rs. Lakhs										
8	Cable Duct cost for (Approx length) as considered in SL No. 6		8.85	8.85	9.57	10.76	23.59	20.28	26.18	Estimated cost
9	Cost of sharing Cable ducts		0.88	2.21	2.39	2.69	2.95	2.54	3.27	Considering 25% for 66kV & 110kV S/s and 12.5% for 220kV S/s of the Cable duct rates
10	Cost of sharing Existing Bus	Towers, Beams, Conductor & Hardwares, IPS tubes etc		1.82	2.97	3.05	2.96	4.07	6.49	Calculation enclosed Annexure - B
11	Bus PT	L/S		0.16	0.34	0.56	0.408	1.12	2.22	20% of supply value
12	AC Supply	Auxiliary Transformer, ACDB	0.33	0.66	0.66	0.66	1.17	1.17	1.17	Considering 25% for 66kV & 110kV S/s and 12.5% for 220kV S/s
13	DC Supply	Battery & Battery Charger/DCDB	0.52	1.05	1.05	1.05	0.69	0.69	0.69	Considering 25% for 66kV & 110kV S/s and 12.5% for 220kV S/s
14	Earth Mat	L/S	0.50	1.08	2.21	3.33	3.34	4.10	10.08	Rs.1 Lakh per 100Sq m of area
15	Land levelling charges	L/S		0.86	1.77	2.66	2.68	3.28	8.06	Approx Rs. 800 per Sq m of area
16	Yard lighting	L/S	0.25	0.75	0.75	0.75	1.00	1.00	3.00	Lumpsum
17	Control Room/ Switchgear shelter for housing C&R panels	L/S	0.50	0.25	0.25	0.25	0.50	0.50	0.50	25K per panel
18	Land Charges for the above required area	Formula= ZXGuidance Value per SqftXArea occupiedX30yrsX7%								To be calculated & included as per the respective area of Sub-station
19	Miscellaneous		1.01	0.65	1.10	0.50	0.31	0.55	0.52	
	<b>Total</b>		<b>4.00</b>	<b>9.50</b>	<b>13.50</b>	<b>15.50</b>	<b>16.00</b>	<b>19.00</b>	<b>36.00</b>	