BIHAR STATE POWER TRANSMISSION COMPANY LTD., PATNA

(A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna) CIN - U74110BR2012SGC018889

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Letter No/ Patna	Dated/
Letter No	
CE./Trans.(O&M)/Misc-15 /2022	

From,

S.N. Kumar,

Chief Engineer (O&M)

To,

GM (F&A), BSPTCL, Patna

Chief Engineer (System Operation)

Chief Engineer (Planning & Engineering)

Chief Engineer (Project-I)

Chief Engineer (Project-II)

Chief Engineer (O&M)

Chief Engineer (Training)

GM-cum-CE, TRZ Patna

GM-cum-CE, TRZ Muzaffarpur

GM-cum-CE, TRZ Bhagalpur

Electrical Superintending Engineer, Transmission Circle, Patna (East)/Patna (West)/Dehrion-Sone/Bhojpur/Gaya/Biharsharif/Bhagalpur/Begusarai/Purnea/Muzaffarpur/Hajipur/ Darbhanga/Motihari/Saran/Koshi.

Revision in Schedule of Rate (SOR) of BSPTCL for the FY 2022-23 Sub:

Sir,

With reference to above, SOR 2022-23 has been revised in following points:-

With r	eference to above, 30K 2022 23 Harvar	Details
5.N. 1.	Revision in SOR 2022-23 Point no-06 & 08 at Page no-62	Related to Transportation of Power Transformer and other associated works.
	60	Maintenance of Transmission line
3.	4 27 at Page no- 29 to 31	Rate for supply and erection of Relays/Energy meter/Battery/Charger etc.
		meter/Battory/

In addition to above, all rates for turnkey projects/O&M/Telecom/Civil shall remains same. The above revision in SOR 2022-23 has been approved by competent authority. The same is hereby enclosed for reference and further necessary action.

Yours' faithfully,

Sd/-

(S.N. Kumar)

Chief Engineer, Trans. (O&M)

Dated. 01 09 2022/

Memo No . 552 / Copy forwarded to DBA/IT, BSPTCL for uploading the revised SOR on BSPTCL website.

(S.N. Kumar)

Chief Engineer, Trans. (O&M)

_	BIHAR STATE POWER TRANSMISSIO	N СОМР	ANY LIMITED	
\vdash	SCHEDULE OF RATES (SUPPLY AND ERECTION) FOR RELAYS	, ENERG	Y METERS, BATTERY,	CHARGER FTC
	(ALL PRICES ARE WITHOUT TAXES AND GST SHA	LL BE PA	ID EXTRA AS APPLICA	BLE)
SI. No	DESCRIPTION	Unit	Unit Supply Price (in Rs.)	Unit Erection Price
-	Distance to fault locator (off line) with Signature Analyzer System suitable for 66 KV to 400 KV EHT line.		2,881,900.00	(in Rs.) -
_	Numerical type differential protection scheme complete with all materials & relays suitable for : (a) 220 KV			
	(b) 132 KV	Sets	523,638.70	
3	Numerical type Distance Protection Scheme with required relays for : (a) 220 KV	Sets	494,770.25	19,260.20 19,260.20
	(b) 132 KV	Sets	354.069.20	
		Sets	354,968.20 354,968.20	16,120.70
5	Electronic/Static type of Trivector Meter of 0.2S Class. Other Supervision Relay.	Nos.	23,908.50	16,120.70
-	(a) D.C. Supervision Relay.		23,908.50	2,998.05
\neg	(a) D.C. Supervision Relay.	Nos.	7,245.00	
\dashv	(b) A.C. Supervision Relay.	Nos.	7,245.00	456.55
	(c) Trip Circuit Supervision Relay	Nos.	11,845.00	456.55
-	(d) Circuit Breaker D.C Supply fail alarm Relay	Nos.	5,060.00	456.55
-+	(e) Circuit Breaker A.C Supply fail alarm Relay	Nos.	5,060.00	456.55
_	(f) VAX-31	Nos.	5,060.00	456.55
	(g) ODS (10 Way)	Nos.	8,189.15	456.55
	(h) Tripping relay	Nos.	11,500.00	456.55
	(i) Under voltage relay	Nos.	5,060.00	456.55
	(j) Under & over frequency relay	Nos.	5,060.00	456.55 456.55
	(k) REF relay	Nos.	5,060.00	456.55
	(I) LBB relay	Nos.	5,060.00	456.55
6	Numerical Non-Directional E/F & O/C Relay.	Nos.	46,953.35	7,249.60
7	Numerical type Directional E/F & O/C Relay.	Nos.	62,554.25	7,248.45
8	Master Trip Relay Type:			
	VAJHM - 23	Nos.	7,094.35	456.55
	VAJHM - 33	Nos.	14,795.90	456.55
	VAJHM - 53	Nos.	18,665.65	456.55
9	Aux Relays Type:			
	VAA - 11	Nos.	7,590.00	456.55
	VAA - 12	Nos.	7,590.00	456.55
	VAA - 13	Nos.	7,590.00	456.55
	VAA - 33	Nos.	7,590.00	456.55
10	Electromech Non Directional E/F & O/C Relay CDG-11.	Nos.	7,186.35	652.05
10	Electromech Directional E/F & O/C Relay CDD21	Nos.	25,551.85	652.05
		Nos.	4,899.00	129.95
	TNC Switch.	Nos.	1,661.75	129.95
13 14	Selector Switch for carrier. Selector Switch for Protection Transfer.	Nos.	8,189.15	129.95
14	ABT Meters			

/	si. DESCRIPTION	Unit	Unit Supply Price (in Rs.)	Unit Erection Price (in Rs.)
\frac{1}{1}	3 Phase, 4 wire, 0.2S accuracy class Trivector static Energy AB Meter (compatible to various protocols like TCP/IP, MODBUS and ICS DLMS)	Nos.	114,568.75	27,149.50
16	3 Phase, 4 wire, 0.2S accuracy class Trivector static Energy non-ABT Meter (compatible to various protocols like TCP/IP, MODBUS and ICS DLMS)	Nos.	114,568.75	27,149.50
17	Metering panel suitable to mount 4 nos of rack mounted meters	Nos.	115,632.50	57,907.26
18	The state of the s	Sets	183,827.50	115,433.21
19	Network Switch 8 port 10/100 Mbps	Nos.	12,522.35	1,541.00
20	Router for Grid sub stations	Nos.	112,666.65	18,670.25
21	UPS - 2 KVA online with 60 min back up on 100% load	Nos.	108,668.10	18,317.20
22	Industrial Grade Client PC as per specification	Sets	159,993.75	25,719.75
23	7 core 2.5 sq mm armoured control cable for CT connection	Mtrs.	356.50	63.78
24	4 core 2.5 sq mm armoured control cable for PT connection	Mtrs.	227.47	55.64
25	2 core 2.5 sq mm armoured cable for AC/DC Aux supply	Mtrs.	144.56	51.57
26	Communication cable	Mtrs.	43.82	51.57
27	GPRS Modem suitable for AMR of Existing SEM Type energy meter (DLMS-ICS Compliant)	Nos.	5,232.50	7,637.20
28	BATTERIES			
(i)	250 V, 500 AH VRLA (valve-regulated lead-acid battery) TYPE Battery sets with inter cell, inter row, interbank and take off connector for complete with all accessories as indicated in Clause 2.6	Sets.	979,415.90	56,136.10
(ii)	250 V, 500 AH TUBULAR TYPE Battery sets with first filling electrolyte (10 % extra) with inter cell, inter row, interbank and take off connector for complete with all accessories as indicated in Clause 2.6	Sets.	1,178,922.50	59,878.20
(iii)	250 V, 300 AH VRLA (valve-regulated lead-acid battery) TYPE Battery sets with inter cell, inter row, interbank and take off connector for complete with all accessories as indicated in	Sets.	629,127.05	56,136.10
(iv)	Clause 2.6 250 V, 300 AH TUBULAR TYPE Battery sets with first filling electrolyte (10 % extra) with inter cell, inter row, interbank and take off connector for complete with all accessories as indicated in Clause 2.6	Sets.	707,353.50	59,878.20
(v)	48 V, 500 AH VRLA (valve-regulated lead-acid battery) TYPE Battery sets with first filling electrolyte (10 % extra) with inter cell, inter row, interbank and take off connector for complete with all accessories as indicated in Clause 2.6	Sets.	193,085.00	49,898.50
(VI)	48 V, 500 AH TUBULAR TYPE Battery sets with first filling electrolyte (10 % extra) with inter cell, inter row, interbank and take off connector for complete with all accessories as indicated in Clause 2.6	Sets.	226,353.35	49,898.50

SI.	DESCRIPTION	Unit	Unit Supply Price (in Rs.)	Unit Erection Price (in Rs.)
(vii)	48 V, 300 AH VRLA (valve-regulated lead-acid battery) TYPE Battery sets with inter cell, inter row, interbank and take off connector for complete with all accessories as indicated in Clause 2.6	Sets.	120,792.55	49,898.50
	48 V, 300 AH TUBULAR TYPE Battery sets with first filling electrolyte (10 % extra) with inter cell, inter row, interbank and take off connector for complete with all accessories as indicated in Clause 2.6	Sets.	135,811.55	49,898.50
27	BATTERY CHARGER			
(i)	Battery charging equipment comprising of float & float cum boost charger unit for charging 125 nos cells of 2 volt per cell Battery sets.			
A.	Suitable for charging of VRLA Type battery bank			
	250V,60/50 A	Sets.	363,493.15	10,603.00
b.	250V, 45/30 A	Sets.	291,031.65	10,603.00
В.	Suitable for charging of Tubular Type battery bank	Jets.	231,031.03	10,003.00
a.	250V,60/50 A	Sets.	383,592.85	10,603.00
b.	250V, 45/30 A	Sets.	301,204.55	10,603.00
(ii)	Battery charging equipment comprising of float & float cum boost charger unit for charging 24 nos cells of 2 volt per cell Battery sets.			-
A.	Suitable for charging of VRLA Type battery bank			
a.	48 V,60/50 A	Sets.	219,516.60	10,603.00
b.	48 V, 45/30 A	Sets.	206,543.45	10,603.00
B.	Suitable for charging of Tubular Type battery bank			
a.	48 V,60/50 A	Sets.	224,890.55	10,603.00
b.	48 V, 45/30 A	Sets.	208,720.40	10,603.00

10	Replacement of conductor (Inluding Lowering & Re-stringing and re-sagging work) Per conductor per span		
1/-	I no. Moose conductor	per span	15,990
F a b	1 no. Zebra conductor		
10	1 no. Panther conductor	per span	12,624
11	Stringing and other associated work of Earth wire	per span	10,098
	Minor repairing of conductors without lowering the conductor	per span	7,184
12		per point of defect	3,231
13a	Mobilisation of Labourers	Per Gang	12,973
13b	Demobilisation of Labourers	Per Gang	12,973
130	(One Gang should consists of 40 persons)		
14	Nut-bolts tightening of 220 KV towers	Per Tower	1,831
15	Nut-bolts tightening of 132 KV towers	Per Tower	1,470
16	Tack welding of the 220 KV towers	Per Tower	3,500
17	Tack welding of the 132 KV towers	Per Tower	2,800
18	First coat Painting of tower footings without cost of paint & brush	Per Tower	1,115
19	Second coat Painting of towers without cost of paint & brush	Per Tower	632
20	Rate for ERS installation (Erection, Jointing, Jumpering) per set complete in all respect.	Nos.	237,326
21	Rate for ERS Dismantling including conductor lowering per set complete in all respect.	Nos.	237,326
22	Erection of cable and joints	Job	3,335
22	Lowering of ACSR Moose Conductor		3,198
23	Lowering of Medicinioss commission		
24	Lowering of ACSK Zeofa Conductor	Per	2,525
25	Lowering of ACSR Panther Conductor	Conductor	2,020
26	Raising of ACSR Moose Conductor	per Span	3,838
27	Raising of ACSR Zebra Conductor		3,030
28	Raising of ACSR Panther Conductor		2,424

NOTE:- 1. All above electrical equipments for which erection, testing, commissioning rate has been mentioned, Erection charges and Testing & Commissioning charges shall be 70% and 30% respectively.

^{2.} Dismantling of GSS Equipments like Transformer, Breaker, CT, CVT, PT, LA, Panel etc. shall be 60% of Erection charges

RATE FOR TRANSPORTALIUN OF PARKET HAANSTORMENT OF ATTEMENT AND	10		0	30				(ii) 50 km < Distance < 500 km (Rate per km)	
RATE FOR TRANSPORTATION OF POWER HAADS AND CAN INVALUE OF A CONTROL OF	10		6	4.				(i) Unto first 50 km	
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RATE FOR TRANSPORTRATION DEPONDERS ARE WITHOUT PRINCES ARE WITHOUT PRINCES ARE WITHOUT PRINCES ARE WITHOUT CALLS AND CAN MIGHT PRINCES AND CALLS AND CAN MIGHT PRINCES AND CALLS AND CAL		nmercial)						(Rate per Km).	_
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RATE FOR TRANSPORTATION OF POWER TRANSFORMATION OF TRANSFORMATION OF POWER TRANSFORMATION OF TRANSFORM	108,423			87,943	85.534	72 282		on wooden sleepers/nearby place.	
RATE FOR THANSPORTATION OF FOWER TRANSPORTES OF PARTY TO THE CAPTALITY CAPTACITY CAPTA	102,400			83,124	75,896	67,463		v) Beyond 500 Kms (rate per 50 Kms).	्रिका
RATE FOR TRANSPORTATION OF POWER TRANSPORTATION FOR POWER TRANSPORTATION OF POWER WITHOUT TAXES AND STATE TRANSPORTATION OF POWER WITHOUT TAXES AND STATE TAXES AND STATE TRANSPORTATION OF POWER WITHOUT TAXES AND STATE TAXE	14,40		12,649	12,047	11,445	9,638	9,638	(v) Beyond 300 Kms upto 500 Kms (rate per 20 Kms).	212
RATE FOR TRANSPORTATION OF POWER AND CHAIR STATICITIES AS A CLAIR STATICITIES AS A CL	14 456	8,433	7,831	7,529	7.228	6,024	000.7	Reyond 150 Kms upto 300 Kms (rate per 10 Kms).	
RATE FOR TRANSPORTATION OF POWER TRANSPORMENT CHAIR STATE OF VALIDUS CAPACITIES AND CITES AND CONTROLLES ARE VALIDUS CAPACITIES AND CONTROLLES AND CONTROLLE	9,035	4,457	4,216	4,006	3,795	3 137	2.520	Revond 50 Km upto 150 Kms (rate per Kms).	
RATE FOR TRANSPORTATION OF POWER HANNFORMER OF VAILUUS CAPACITIES AND CHIEF	4010	446	422	398	379	313	25,202	Ulato first S0 Kms.	7
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RATE FOR TRANSPORTATION OF POWER TRANSPORMINES OF VARIOUS CAPACITIES AND CHIER ASSERTIALES (ALL PRICES ARE WITHOUT TANES AND CRI SHALL, HE PAID EXTRA AS APPLICABLE) (ALL PRICES ARE WITHOUT TANES AND CRI SHALL, HE PAID EXTRA AS APPLICABLE) A. Description (ALL PRICES ARE WITHOUT TANES AND CRI SHALL, HE PAID EXTRA AS APPLICABLE) (ALL PRICES ARE WITHOUT TANES AND CRI SHIPS AND CHIER ASSERTIALES (ALL PRICES ARE WITHOUT TANES AND CRI SHIPS AND CHIER ASSERTIALES) (IVEL AND CRIST SHALL AS APPLICABLE) (IVEL AND CRIST SHALL	ALC: N							osition during transportation.	8
RATE FOR TRANSPORTATION OF POWER TRANSPORMINGS OF VALUOUS CAPACITIES AND CITES AND CIT	erfi.						00,200	rangement against skidding & tilting of the transformer from its	
RATE FOR TRANSPORTATION OF POWER TRANSPORMENT OF VALUOUS CAPACITIES AND CITES AND CITE	84,329	78,306	72,282	72,282	72,282	60,235	\$10.09	the point of loading (dragging upto 100 feet).	_
RATE FOR TRANSPORTATION OF POWER TRANSPORMENTS OF VALUOUS CAPACITIES AND CITES AND CIT	00,000	1000	84,329	80,113	75,896	63,849	63,849	ii) Beyond 700 feet, per feet (6,	16
RATE FOR TRANSPORTATION OF POWER TRANSPORMERS OF VARIOUS CAPACITIES AND CHIER ASSOCIATED WORK. (ALL PRICES ARE WITHOUT TAXES AND CIST SHALL, HE PAID EXTRA AS APPLICABLE) All prices in Hupses 10/12.5 20 MVA 50 MVA 100 MVA	222	902.00	404	452	422	373	373	i) Beyond 300 feet upto 700 feet, per feet @	
RATE FOR TRANSPORTATION OF POWER TRANSFORMERS OF VAILOUS CAPACITIES AND OTHER ASSOCIATED WORK. (ALL PRICES ARE WITHOUT TAXES AND GNT SHALL, HE PAID EXTHA AS APPLICABLE) All prices in Rupess 10/12.5 20 MVA 100 MVA	542	482	710	482	452	398	398) Beyond 100 feet upto 300 feet, per feet (6)	E 1
RATE FOR TRANSPORTATION OF POWER TRANSPORMERS OF VALUOUS CAPACITIES AND CHIEF AND CHIEF WORK. (ALL PRICES ARE WITHOUT TAXES AND CHI HIALL HE PAID EXTHA AS APPLICABLE) All prices in Rupers 10/12.5 1	602	2/6	7/6	524	482	422	422	baseing of transformers beyond 100 feet. (Rate per feet).	7 3
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RATE FOR TRANSPORTATION OF POWER TRANSPORMIERS OF VARIOUS CAPACITIES AND OTHER ASSOCIATED WORK. (ALL PRICES ARE WITHOUT TAXES AND GNI SHALL HE PAID EXTRA AS APPLICABLE) All prices in Rupees	DAN KAN A		WV.	4 A W 98		20 MVA	NIVA NIVA	Description	7
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(iii) Beyond 500 km (Rate per km)