

To

1. All S.E/OP Circle,
Under DHBVN
2. S.E/Const. Circle,
DHBVN, Hisar

Memo No.: Ch- 100/DD-117/Vol-XI/P&D

Dated: 31.10.2019

Subject- Item wise rates for 33KV & 11KV turnkey works for preparation of estimate w.e.f 01.11.2019 to 31.03.2020.

Enclosed please find herewith the items wise rates for preparation of estimate for 33 KV & 11 KV turnkey works for the period 01.11.2019 to 31.03.2020. The rate list applicable for the period March-2019 to September-2019 shall remain effective for the month of October-2019.

This issue with the approval of WTDs against agenda item no. 201.13, as the advice in this regard has been issued by the Company Secretary, DHBVN, Hisar vide advice no. CS/DH/WTD-201st/Advice-4538 dated 24.10.2019.

DA/As above


Superintending Engineer/P&D,
For C.E/PD&C, DHBVN, Hisar

CC to:-

1. SPS to CMD, DHBVN, Hisar for information of Worthy CMD, please.
2. PS to Director/Projects, DHBVN, Hisar for information of Director, please.
3. PS to Director/Operation, DHBVN, Hisar for information of Director, please.
4. C.E/ PD&C, DHBVN, Hisar.
5. C.E/MM, DHBVN, Hisar.
6. C.E/OP, DHBVN, Hisar/Delhi.
7. C.E/Smart City Project, DHBVN, Gurgaon.
8. S.E/P&D, UHBVN, Panchkula.
9. S.E/R-APDRP, DHBVN, Hisar.
10. S.E/M&P circle, DHBVN, Hisar.
11. S.E/Civil, DHBVN, Hisar.
12. COS, DHBVN, Hisar.
13. CAO/FA/MM, DHBVN, Hisar.
14. GM/IT, DHBVN, Hisar along with a copy of rate list for information and it is requested to upload the rate list on Nigam Website.

along with copy of rate list for information & necessary action please.

The item wise rates for 33 & 11 KV turnkey works applicable from 01.11.2019 to 31.03.2020 for preparation of estimate

Sr. No.	Description	Unit	Approved rates including F&I, FOR destination without GST applicable From 01.11.2019 to 31.03.2020 (without GST) (In Rs)	GST@ 18% (In Rs)	Approved rates including F&I, FOR destination with GST applicable From 01.11.2019 to 31.03.2020 (With GST) (In Rs)
1	LINE SUPPORTS				
1.1	PCC Pole 9.0M Long.	No.	1708	307	2015
1.2	PCC Pole 11.0M Long.	No.	4186	754	4940
2	MS Angle, Channel of various sizes, X-ARMS by using steel of TATA / SAIL make only				
2.1	MS Channel 100x50mm(ISMC-100) SAIL/TATA	Ton	36000	6480	42480
2.2	MS Channel 75x40mm(ISMC-75) SAIL/TATA	Ton	43500	7830	51330
2.3	MS Angle 65x65x6mm SAIL/TATA	Ton	42500	7650	50150
2.4	MS Angle 50x50x6mm SAIL/TATA	Ton	43500	7830	51330
2.5	MS flat 50X6mm SAIL/TATA	Ton	42500	7650	50150
2.6	V-Shape X Arm 100x50xmm (ISMC-100)Wt. 13.200 kg.	No.	658	119	777
2.7	V-Shape X Arm 75x40mm (ISMC-75)Wt. 10.100 kg.	No.	581	105	686
2.8	M.S. Channel (X-Arm) 100x50mm (ISMC-100)2200mm (for H pole) Wt. 21.032 kg.	No.	1049	189	1238
2.9	M.S Channel (T-OFF) 100x50mm (ISMC-100)3050mm Wt.29.158 kg	No.	1454	262	1716
2.10	MS Channel T-off 75x40mm(ISMC-75) 3350 mm Wt. 23.919 kg	No.	1376	248	1624
2.11	MS Channel T-off 75x40xmm(ISMC-75) 2200 for fuse unit Wt. 15.708kg	No.	904	163	1067
2.12	MS Channel T-off 100x50xmm (ISMC-100)1600mm Wt. 15.296 kg	No.	763	137	900
2.13	M.S.Angle Iron 50x50x6mm 3220mm (Bracing 4 pole) Wt.14.49 kg.	No.	834	150	984
2.14	M.S Angle 50x50x6mm-2860mm (Bracing H-pole)Wt. 12.87 kg.	No.	741	133	874
2.15	M.S. Angle 50x50x6mm- 2400mm for earth wire) Wt.10.80 kg.	No.	621	112	733
2.16	M.S. Angle 50x50x6mm- 2200mm (Belting for H-pole) Wt.9.90 kg.	No.	569	103	672
2.17	M.S. Angle 50x50x6mm- 2040mm (Belting 4 pole) Wt.9.180 kg.	No.	528	95	623
2.18	MS Flat for T-Off Bracing (900mm) 50x6mm Wt. 2.160 Kg	No.	122	22	144
2.19	MS X Plate of Channel 100 x 50 mm,(ISMC-100) 300mm Long Wt. 5.736 kg.	No.	286	52	338
2.20	MS X Plate of Channel 100 x 50 mm(ISMC-100), 460mm Long Wt. 8.796 kg.	No.	439	79	518
2.21	MS X Plate of Channel 75 x 40 mm(ISMC-75), 300mm Long Wt. 4.284 kg.	No.	247	44	291
2.22	MS X Plate of Channel 75 x 40 mm(ISMC-75), 460mm Long Wt. 6.568 kg.	No.	378	68	446
2.23	MS X Plate of Angle 40 x 40 x 6mm,300mm Long Wt. 2.1 kg.	No.	121	22	143

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2.24	MS X Plate of Angle 40 x 40 x 6mm,460mm Long Wt.3.22kg.	No.	186	33	219
2.25	MS X Plate of Angle 50 x 50 x 6mm,300mm Long Wt. 2.7 kg.	No.	155	28	183
2.26	MS X Plate of Angle 50 x 50 x 6mm, 460mm Long Wt.4.14kg.	No.	238	43	281
2.27	MS X Plate of Angle 65 x 65 x6mm 300mm Long Wt.3.48kg.	No.	197	35	232
2.28	MS X Plate of Angle 65x65x6mm,460mm Long Wt.5.336kg.	No.	302	54	356
3	Galvanized Angle and Channel of various sizes and V- Shape X-arms by using SAIL/TATA Make only				
3.1	Channel				
	1) 100x50mm(ISMC-100)	Ton	52949	9531	62480
	2) 75x40mm(ISMC-75)	Ton	60449	10881	71330
3.2	Angle				
	1. 65x65x6mm	Ton	59449	10701	70150
	2) 50x50x6mm	Ton	60449	10881	71330
3.3	Flat 50X6mm SAIL/TATA	Ton	59449	10701	70150
3.4	V-Shape X Arm 100x50 mm (ISMC-100)Wt. 13.200 kg.	No.	887	160	1047
3.5	V-Shape X Arm 75x40mm (ISMC-75)Wt. 10.100 kg.	No.	757	136	893
3.6	Channel (X-Arm) 100x50mm(ISMC-100) 2200mm (for H pole) Wt. 21.032 kg.	No.	1414	254	1668
3.7	Channel (T-OFF) 100x50x6mm 3050mm Wt.29.158 kg	No.	1960	353	2313
3.8	Channel T-off 75x40x6mm 3350 mm Wt. 23.919 kg	No.	1792	322	2114
3.9	Channel T-off 75x40x6mm 2200 for fuse unit Wt. 15.708 kg	No.	1176	212	1388
3.10	Channel T-off 100x50x6mm 1600mm Wt. 15.296 kg	No.	1028	185	1213
3.11	Angle Iron 50x50x6mm 3220mm (Bracing 4 pole) Wt.14.49 kg.	No.	1086	195	1281
3.12	Angle 50x50x6mm-2860mm (Bracing H-pole)Wt. 12.87 kg.	No.	964	173	1137
3.13	Angle 50x50x6mm- 2400mm (for earth wire) Wt.10.80 kg.	No.	809	146	955
3.14	Angle 50x50x6mm- 2200mm (Belting for H-pole) Wt.9.90 kg.	No.	742	133	875
3.15	Angle 50x50x6mm- 2040mm (Belting 4 pole) Wt.9.180 kg.	No.	687	124	811
3.16	Flat for T-Off Bracing (900mm) 50x6mm Wt. 2.160 Kg	No.	159	29	188
4	Clamps (M.S)				
4.1	P.G Clamps for 30/50/80/100 mm ² ACSR Conductor	No.	34	6	40
4.2	Half Clamps Wt. 1.47 Kg	No.	83	15	98
4.3	Full Clamps Wt.2.325 Kg.	No.	131	24	155
4.4	33 KV Top Brackets / hamper Wt. 2.950 Kg.	No.	169	31	200
4.5	11 KV Top Brackets/hamper Wt. 1.480 Kg.	No.	84	15	99
4.6	Suspension Clamp Assembly with eye hook	No.	360	65	425
4.7	Dead end clamp Assembly with eye hook	Set	207	37	244
5	Clamps/Top Brackets/ Hamper (Galvanized)				
5.1	Half Clamps Wt. 1.47 Kg	No.	108	20	128
5.2	Full Clamps Wt.2.325 Kg.	No.	172	31	203

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5.3	33 KV Top Brackets / hamper Wt. 2.950 Kg.	No.	221	40	261
5.4	11 KV Top Brackets/hamper Wt. 1.480 Kg.	No.	109	20	129
6	INSULATORS				
6.1	11 kV Pin Insulator	No.	29	5	34
6.2	11kV G.I. Pins	No.	50	9	59
6.3	Dead end fitting for 11 KV Disc. Insulator 45 KN. (T&C type)	No.	140	25	165
6.4	11 KV Disc. Insulator 45 KN. (B&S type)	No.	155	28	183
6.5	11 KV Polymeric Disc Insulator 45KN (with fitting (T&C Type)	No.	108	20	128
6.6	11 KV Polymeric Disc Insulator 45KN (with fitting (B&S Type)	No.	114	21	135
6.7	33 KV 70/90 KN Composite Polymeric Disc Insulator (T&C Type)	No.	280	50	330
6.8	33 KV 70/90 KN Composite Polymeric Disc Insulator (B&S Type)	No.	285	51	336
6.9	33 KV 45KN Composite Polymeric Disc Insulator (T&C Type)	No.	260	47	307
6.10	33 KV 45KN Composite Polymeric Disc Insulator (B&S Type)	No.	265	48	313
6.11	11 KV Polymeric Pin Insulator with Pin	No.	139	25	165
6.12	C-wedge Connector for 0.2sq" Panther Conductor (Nominal Aluminum Area 200 mm ²)	No.	871	157	1028
6.13	33 KV Pin Insulator with Pin	No.	549	99	648
6.14	Disc Fitting (T &C type)	No.	74	13	87
6.15	Disc Fitting (B &S type)	No.	116	21	137
6.16	LT Insulator	No.	8	2	10
6.17	Guy Insulator	No.	8	2	10
6.18	Single tension fittings for 130mm ² ACSR Conductor.	No.	114	20	134
6.19	Suspension fitting for 130 mm ² ACSR Conductor.	No.	96	17	113
7	CONDUCTOR				
7.1	ACSR Conductor 50mm ² (Rabbit)	Km.	28685	5163	33848
7.2	ACSR Conductor 80mm ² (Raccoon)	Km.	41500	7470	48970
7.3	ACSR Conductor 100mm ² (Dog)	Km.	55754	10036	65790
7.4	ACSR Conductor 100mm ² (Dog) insulated	Km.	66905	12043	78948
7.5	ACSR Conductor 130mm ² (Leopard)	Km.	69564	12521	82085
7.6	ACSR Conductor 150mm Sq.	Km.	90000	16200	106200
7.7	ACSR Conductor 0.2 sq. inch (Panther)	Km.	120776	21740	142516
8	G.I. WIRE				
8.1	GSL 8 SWG	MT	47882	8619	56501
8.2	Barbed wire	MT	52619	9471	62091
8.3	G.I. Strip 25x6 mm 9 mtr. For earthing Wt.10.80 Kg. (TATA/SAIL make)	No.	797	144	941
8.4	GSS Wire 7/14 SWG (2.24mm)	MT	63307	11395	74703
8.5	Stay wire/GSS Wire 7/8 SWG (4mm)	MT	48730	8771	57501
9	Distribution T/F Three Phase Aluminum Wound				
9.1	25 KVA, 11/0.433 kv 250 V three ph. Al. wound, BEE, 4 star rated oil immersed, naturally cooled conventional out-door type Distribution T/F as per Nigam Tech. Spec. and relevant ISS with latest amendments.	No.	35490	6388	41878
9.2	63 KVA, 11/0.433 KV- 250 V three ph. Al. wound, oil emmersed, naturally cooled, out-door type self protected Distribution T/F with metallic enclosure housing LV bushings as per latest Nigam's Tech. Specification and relevant ISS with latest amendments	No.	66413	11954	78367

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9.3	100 KVA, 11/0.433 KV - 250 V three phase oil immersed, naturally cooled, Al. wound outdoor type Distribution T/F with CSP (Completely Self Protected) feature and the losses confirming to 4 star rating of B.E.E and confirming to Nigam Tech. Spec. and relevant ISS with latest amendments	No.	90377	16268	106645
9.4	200 KVA, 11/0.433 KV - 250 V three phase Al. wound, Oil immersed, naturally cooled, out door type Distribution T/F with CSP (Completely Self Protected) feature and the losses confirming to 4 star rating of B.E.E and confirming to latest Nigam Tech. Specifications and relevant ISS with latest amendments	No.	168405	30313	198718
9.5	250 KVA, 24.7 Amp. PATs (Pillot Advance Transformer).	No.	225491	40588	266079
10	3 Phase Copper Wound Distribution Transformer				
10.1	33KV/0.400 KV Copper Wound 100 KVA Distribution Transformer	No.	160000	28800	188800
10.2	400 KVA, three phase 11KV/433-250 V, oil immersed, naturally cooled copper wound outdoor type Distribution Transformers as per latest Nigam Technical Specification with amendments relevant ISS with latest amendments.	No.	504069	90732	594801
10.3	630 KVA, three phase 11KV/433-250 V, oil immersed, naturally cooled copper wound outdoor type Distribution Transformers as per latest Nigam Technical Specification with amendments relevant ISS with latest amendments.	No.	728541	131137	859679
10.4	990 KVA, three phase 11KV/433-250 V, oil immersed, naturally cooled copper wound outdoor type Distribution Transformers as per latest Nigam Technical Specification with amendments relevant ISS with latest amendments.	No.	1134296	204173	1338469
11	POWER T/Fs				
11.1	3.5 MVA three phase 50 Hz, 33/3.3 KV Step down, outdoor ONAN Power Transformer Complete with all accessories / fittings and conforming to latest Nigam's Technical Specification with amendments relevant ISS with latest amendments.	No.	2634108	474140	3108248
11.2	5 MVA three phase 50 Hz, 33/3.3 KV Step down, outdoor ONAN Power Transformer Complete with all accessories / fittings and conforming to latest Nigam's Technical Specification with amendments relevant ISS with latest amendments.	No.	3008847	541592	3550439
11.3	10 MVA three phase 50 Hz, 33/11 KV Step down, outdoor ONAN Power Transformer Complete with all accessories / fittings and conforming to latest Nigam's Technical Specification with amendments relevant ISS with latest amendments.	No.	3759455	676702	4436156
11.4	12.5 MVA three phase 50 Hz, 33/11 KV Step down, outdoor ONAN Power Transformer Complete with all accessories / fittings and conforming to latest Nigam's Technical Specification with amendments relevant ISS with latest amendments.	No.	4311001	775980	5086981
12	VCB's				
12.1	11kV VCB panels (Incoming, out going & capacitor panels) 25KA, 475 MVA rupturing capacity 24v DC operated indoor type with a set of CTs, PTs KWH Meter, Relays, instruments etc. complete in all respects conforming to Nigam's Tech. Spcn. & all relevant ISS/IEC with latest amendments				
(a)	Rating 1250 Amps. For Incoming Panel (indoor type).	No.	280790	50542	331333
(b)	Rating 400 Amps. For Outgoing Panel (indoor type).	No.	244165	43950	288115
(c)	Rating 400 Amps. For Capacitor control Panel(indoor type).	No.	256374	46147	302521
12.2	11 KV VCB 230 Volt A.C. Operated out-door type Rating 800 Amp. Incoming VCB	No.	216528	38975	255503

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12.3	11 KV VCB 230 Volt A.C. Operated out-door type Rating 400 Amp. Outgoing VCB	No.	215256	38746	254002
12.4	33 KV VCB, 36 KV, 1250A with 1000 MVA (16 KA for 1 second) rupturing capacity VCB for out door use.	No.	184000	33120	217120
12.5	33 KV Indoor VCB	No.	700000	126000	826000
13	LA'S				
13.1	Lightening Arrester 9 KV	No.	366	66	432
13.2	11 KV Lightening Arrester S/Stn. Type 9 KV 10KA Heavy Duty.	No.	2179	392	2571
13.3	33 KV Lightening Arrester S/Stn. Type 30 KV 10KA Heavy Duty.	No.	3442	620	4062
14	G.O. SWITCH				
14.1	11 KV 400 Amps. GO Switch complete with handle, pipe & Supporting Channel. As per Nigam's technical specification, relevant ISS and latest amendments				
(a)	9 Mtr	No	5508	992	6500
(b)	11 Mtr	No	5619	1011	6630
14.2	11 KV duple throw GO Switch 400A, having Y type blades complete in all respect as per latest Nigam's tech. spec. relevant ISS and latest amendments.	No.	7881	1419	9300
15	Nuts & Bolts				
15.1	M.S Nuts Bolts off sizes	Kg.	51	9	60
15.2	Eye Screw Bolts 9"x5/8" Wt. 0.483 Kg. (G.I)	No.	33	6	39
15.3	U-Bolt for suspension fittings Wt. 0.600Kg. (G.I)	No.	41	7	48
15.4	G.I. Nuts & Bolts off sizes	Kg.	68	12	80
16	CTs				
16.1	11 KV CT's				
(i)	11 KV Protection CT's	No.	7000	1260	8260
(ii)	11 KV Measuring CT's Ratio 5/5A, 10/5A, 15/5A, 25/5A, 50/5A, 100/5A, 150/5A, 200/5A, 250/5A, 300/5A	No.	2092	377	2469
16.2	33 KV CTs				
(i)	400-200/5-5-5-5A	No.	14501	2610	17111
(ii)	300-150/5-5-5-5A	No.	14014	2522	16536
(iii)	200-100/5-5-5-5A	No.	13659	2459	16118
16.3	33 KV Combined Current Transformer & Potential Transformer unit with Junction Box complete in all respect	No.	100218	18039	118257
17	LT CTs				
(i)	Ratio 50/5A	No.	260	47	307
(ii)	Ratio 100/5A	No.	329	59	388
(iii)	Ratio 200/5A.	No.	205	37	242
(iv)	Ratio 400/5A, 600/5A/800/5A/900/5A/1000/5A/ 1200/5A/1500/5A/2000/5A/2500/5A	No.	551	99	650
18	PTs				
18.1	33 KV PTs	No.	11148	2007	13155
18.2	11 KV PT	No.	6392	1151	7543
19	CAPACITORS				
19.1	LT Shunt Capacitor (Gas filled MPP Type) 3 KVAR unit	No.	279	50	329
19.2	Capacitors 3.33 MVAR (with Structure.)	No.	397046	71468	468514
20	POST INSULATOR				
20.1	33 KV Post insulator	No.	348	63	411
21	SPACERS				
21.1	LT Line spacers	No.	8	2	10

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22	SINGLE PHASE ENERGY METER				
22.1	Single Phase DLMS compliant whole current static energy meters Class-I Accuracy 1.00 as per Nigam's Tech. Spec., relevant ISS with upto date amendments.of rating 10-60A with Communication and upgrading facility along with latest amendments (with out meter cover box)	No.	501	90	591
22.2	Single Phase DLMS compliant whole current static energy meters Class-I Accuracy 1.00 as per Nigam's Tech. Spec., relevant ISS with upto date amendments.of rating 10-60A with Communication and upgrading facility along with latest amendments (with meter cover box)	No.	579	104	684
22.3	Single Phase Net meter as per latest Nigam's echnical specification with latest amendments thereof.	No.	1356	244	1600
23	THREE PHASE ENERGY METER				
23.1	Three phase 4-wire DLMS compliant whole current static energy meters class-I accuracy of rating 10-60A, with communication facility with self locking type polycarbonate meter box along with latest amendments	No.	1430	257	1688
23.2	Three phase 4 – wire LT CT operated Static meter of class 0.5s accuracy -/5A as per IS- 14697/IEC-687/CBIP-88 Specification (latest Version & Nigams Tech. Spec. and latest amendments thereof. (LT CT Consumer meter)	No.	1962	353	2315
23.3	11 KV CT/PT Operated Static Consumer Meter (DLMS Compliant) of class 0.5S accuracy & rating -/5 A as per IS-14697 & IS-15959 Category -C Nigam technical specification with latest amendments thereof.	No.	2809	506	3315
23.4	Three Ph. 4 Wire 11 KV CT/PT Operated Static feeder meter (DLMS compliant) of class 0.5S accuracy & rating -/5 A as per IS-14697 & IS-15959 Category-A Nigam technical specification with latest amendments thereof.	No.	2881	519	3400
23.5	Three Phase Net meter as per latest Nigam's echnical specification with latest amendments thereof.	No.	2288	412	2700
23.6	LT CT Net Meter as per latest Nigam's echnical specification with latest amendments thereof.	No.	2780	500	3280
23.7	HT Trivector (DLMS compliant Meter (Category-A) with all accessories for complete installation as per tech. specifitcaiton no CSC-45/Rev-III/DH/UHP&D/2015-16 subject to change in parameters i.e. voltage ratio 33 KV /110V, 0.2 accuracy class, current ratio-/1A	No.	20804	3745	24549
23.8	Three phase 4 – wire LT CT operated (Inbuilt CTs) Static Energy meters (40-200 Amps) fo class 1.0 accuracy (DLMS compliant consumer meter) with GSM modem and conforming to Nigam's Specification and latest amendments thereof.	No.	10979	1976	12955
23.9	11 KV Pilfer Resistant Metering Cubicles consisting of 1 No. 3 Phase Dry type potential transformer confirming & 3 Nos. 11 KV Measuring CTs of various ratios confirming with latest amendments thereof.	No.	26879	4838	31718
23.10	3 Ph.4-wire HT. CT-PT NET Meter as per Nigam's Tech Spec. alongwith latest amendments thereof	No.:	16525	2975	19500
24	Meter Cover Box				
24.1	Deep Drawn M.S. Sheet Weather Proof Outdoor Type Meter Cover Box for Single Phase Meter size 300x250x160mm along with Zinc plated clamps as per Nigam's Tech. Spec.	No.	299	54	353
24.2	Deep Drawn M.S. Sheet Weather Proof Outdoor Type Meter Cover Box for Three Phase Meter size 500x300x160mm along with Zinc plated clamps as per Nigam's Tech. Spec.	No.	983	177	1160

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24.3	Deep Drawn type double door & double compartment LT CT Three Phase Metering Box for DT meter as per Nigam's Tech. Spec.	No.	1647	296	1943
24.4	Polycarbonate Weather Proof Outdoor Type Meter Cover Boxes sizes 315*265*130 mm for Single Phase Meter along with Zinc plated Clamps as per Nigam's Tech. Spec.	No.	280	50	330
24.5	Polycarbonate Weather Proof Outdoor Type Meter Cover Boxes for three phase meters 445mm x 345mm x 170mm along with Zinc plated Clamps as per Nigam's Tech. Spec.	No.	434	78	512
24.6	4in 1 Meter Cover Box (MCB) (550x425x130 mm) Polycarbonate for housing 4 Nos. Single Phase Energy Meters as per Nigam's Technical Specification	No.	1140	205	1345
24.7	4in 1 Polycarbonate Meter Cover Box (MCB) (700x475x150 mm) for 4 Nos. Single Phase Energy Meters as per Nigam's Technical Specification	No.	1907	343	2250
25	C&R Panel				
25.1	33 KV C&R panel as per Nigams Tech. Specn. & confirming to relevant ISS with latest amendments.	No.	139831	25169	165000
26	ISOLATOR				
26.1	36 KV Isolator (630 AMPS)	No.	25447	4580	30027
27	L&E Switch				
27.1	36 KV Isolator cum earth switch	No.	32419	5835	38254
28	11 KV 8 Panel Board Consisting of (Out Going Panel = 6 No+ I.C Panel = 1 No.+ Capacitor Panel = 1 No.) as per Nigam's TECh spens, reliveant ISS and latest ammendments thereof	Set	2184300	393174	2577474
29	NCT				
29.1	11 KV NCTs 600/5 AMP.	No.	8209	1478	9687
30	LT PVC CABLES				
30.1	S/C 50 mm2	Km.	32083	5775	37858
30.2	S/C 95 mm2	Km.	58429	10517	68946
30.3	S/C 120 mm2.	Km.	72399	13032	85430
30.4	S/C 185 mm2.	Km.	116013	20882	136895
30.5	S/C 300 mm2	Km.	169135	30444	199579
30.6	S/C 630 mm2	Km.	354200	63756	417956
30.7	2C 6 mm2	Km.	15198	2736	17934
30.8	2C 16 mm2	Km.	33986	6118	40104
30.9	2C 10 mm2	Km.	18644	3356	22000
30.10	3.5 C* 95 mm2	Km.	198536	35736	234272
30.11	3.5 Cx120mm2	Km.	248086	44656	292742
30.12	3.5 Cx185mm2	Km.	337421	60736	398156
30.13	3.5 Cx300mm2	Km.	532907	95923	628830
30.14	4CX16 mm2	Km.	53573	9643	63216
30.15	4CX 25 mm2	Km.	76634	13794	90428
30.16	4CX50mm2	Km.	138694	24965	163659
31	L.T. ARMoured CABLES				
31.1	2/C 6mm2	Km.	33858	6094	39952
31.2	2/C10mm2	Km.	40254	7246	47500
31.3	3.5/C 25 mm2	Km.	84948	15291	100239
31.4	3.5/C 50 mm2	Km.	131901	23742	155643
31.5	4Cx16mm2	Km.	72492	13049	85541
31.6	4Cx25mm2	Km.	100439	18079	118518
32	L.T. ARMoured XLPE cable				
32.1	Single Core 25 mm2	Km.	33821	6088	39908
32.2	Single Core 50 mm2	Km.	49980	8996	58977
32.3	Single Core 95 mm2	Km.	80659	14519	95178
32.4	Single Core 120 Sq mm2	Km.	92813	16706	109519
32.5	3.5Cx95 mm2	Km.	217140	39085	256225

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32.6	4Cx16mm2	Km.	69143	12446	81589
32.7	4Cx25 mm2	Km.	89611	16130	105741
32.8	4Cx50 mm2	Km.	153548	27639	181187
32.9	4Cx95 mm2	Km.	241713	43508	285221
32.10	4Cx120 Sq mm	Km.	385000	69300	454300
33	LT XLPE AB Cables				
33.1	3Cx16+25mm2	Km.	41753	7515	49268
33.2	3Cx25+25mm2	Km.	55583	10005	65588
33.3	3Cx50+35mm2	Km.	94262	16967	111229
33.4	3Cx95+70mm2	Km.	174720	31450	206169
33.5	3Cx120+70mm2	Km.	211711	38108	249819
34	H.T. XLPE CABLES				
34.1	11 KV single core XLPE Cable 630mm2	Km.	507651	91377	599028
34.2	11 KV 3 core XLPE Cable 25mm2	Km.	196967	35454	232421
34.3	11 KV XLPE cable 3C 50mm2	Km.	368452	66321	434773
34.4	11 KV XLPE cable 3C 95mm2	Km.	524057	94330	618387
34.5	11kV XLPE Cable 3C 185mm2	Km.	692315	124617	816932
34.6	11 kV XLPE cable 3C 300mm2	Km.	1042255	187606	1229861
35	UN-ARMoured COPPER CONTROL CABLE				
35.1	2C x 4mm2	Km.	56446	10160	66606
35.2	2C x 6mm2	Km.	77460	13943	91403
35.3	3C x 4mm2	Km.	76360	13745	90105
35.4	4C x 4mm2	Km.	97883	17619	115502
35.5	6C x 4mm2	Km.	122222	22000	144222
35.6	7C x 2.5mm2	Km.	102732	18492	121224
35.7	10C x 2.5mm2	Km.	144414	25994	170408
36	HT AERIAL BUNCHED CABLE (ABC)				
36.1	3Cx35+35mm2	Km.	264173	47551	311724
36.2	3Cx35+70mm2	Km.	281981	50757	332738
36.3	3Cx50+70mm2	Km.	313081	56355	369436
36.4	3Cx95mm2 + 80mm2	Km.	433615	78051	511666
36.5	3Cx150mm2 + 120mm2	Km.	571518	102873	674391
36.6	3Cx185mm2 + 150mm2	Km.	672632	121074	793706
36.7	3Cx185mm2 + 240mm2	Km.	720806	129745	850551
37	33 KV HT XLPE Cable				
37.1	S/C 300mm2	Km.	495346	89162	584508
37.2	S/C 630mm2	Km.	751907	135343	887250
37.3	3C x 95mm2	Km.	746527	134375	880902
37.4	3C x 120mm2	Km.	823094	148157	971251
37.5	3C x 150mm2	Km.	907146	163286	1070432
37.6	3C x 185mm2	Km.	1000767	180138	1180905
37.7	3/C 300mm2	Km.	1260052	226809	1486861
37.8	3/Cx400mm2	Km.	1602950	288531	1891481
38	33 KV Aerial Bunched Cable				
38.1	3 core X 95+95mm2	Km.	721705	129907	851612
38.2	3 Core X120+150mm2	Km.	820282	147651	967933
38.3	3 Core X 185+240mm2	Km.	1041697	187505	1229202
39	HT 11KV XLPE U/G outdoor Heat Shrinkable termination kit				
39.1	3Cx95mm2	No.	664	119	783
39.2	3Cx120mm2	No.	821	148	969
39.3	3Cx185mm2	No.	821	148	969
39.4	3Cx300mm2	No.	1006	181	1187
39.5	SCx630mm2	No.	593	107	700
40	HT 11KV XLPE U/G indoor Heat Shrinkable termination kit				
40.1	3Cx50mm2	No.	523	94	617
40.2	3Cx95mm2	No.	523	94	617
40.3	3Cx120mm2	No.	700	126	826
40.4	3Cx185mm2	No.	700	126	826
40.5	3Cx300mm2	No.	773	139	912
40.6	SCx630mm2	No.	436	79	515
41	Outdoor Heat Shrinkable termination kit for 11 KV HT AB Cable				
41.1	35mm2	No.	198	36	234
41.2	50mm2	No.	208	37	245

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41.3	95mm2	No.	210	38	248
41.4	120mm2	No.	212	38	250
41.5	150mm2	No.	216	39	255
41.6	185mm2	No.	298	54	352
41.7	240mm2	No.	309	56	365
41.8	300mm2	No.	315	57	372
42	Heat Shrinkable for Straight Through Joint Kit for 11 KV HT AB Cable				
42.1	35mm2	No.	474	85	559
42.2	50mm2	No.	475	86	561
42.3	95mm2	No.	477	86	563
42.4	120mm2	No.	480	86	566
42.5	150mm2	No.	604	109	713
42.6	185mm2	No.	619	111	730
42.7	240mm2	No.	727	131	858
42.8	300mm2	No.	729	131	860
43	11 KV OUTDOOR S/C CABLE TERMINATION KIT				
43.1	S/Cx16mm2 to 50mm2 Cable	No.	262	47	309
43.2	S/Cx70mm2 to 120mm2 Cable	No.	297	53	350
43.3	S/Cx150mm2 to 300mm2 Cable	No.	423	76	499
44	3/C Cable Heat Shrink type straight through joint of sizes				
44.1	3/Cx50mm2 Cable	No.	1699	306	2005
44.2	3/Cx95mm2 Cable	No.	1913	344	2257
44.3	3/Cx120mm2 Cable	No.	1961	353	2314
44.4	3/Cx185mm2 Cable	No.	2013	362	2375
44.5	3/Cx300mm2 Cable	No.	2571	463	3034
44.6	S/Cx630mm2 Cable	No.	1830	329	2159
45	33 KV HT XLPE Cable Indoor Jointing kit				
45.1	S/C 300mm2	No.	849	153	1002
45.2	S/C 630mm2	No.	1147	206	1353
45.3	3/C 300mm2	No.	2295	413	2708
46	33 KV HT XLPE Cable outdoor Jointing kit				
46.1	S/C 300mm2	No.	1101	198	1299
46.2	S/C 630mm2	No.	1376	248	1624
46.3	3/C 300mm2	No.	3026	545	3571
47	33 KV HT XLPE Cable Straight Jointing kit				
47.1	S/C 300mm2	No.	2476	446	2922
47.2	S/C 630mm2	No.	3118	561	3679
47.3	3/C 300mm2	No.	8805	1585	10390
48	33 KV AB Cable 3/C Indoor Jointing kit				
48.1	3/Cx95+95mm2	No.	1725	310	2035
48.2	3/Cx120+150mm2	No.	1972	355	2327
48.3	3/Cx185+240mm2	No.	1972	355	2327
49	33 KV AB Cable 3/C outdoor Jointing kit				
49.1	3/Cx95+95mm2	No.	2202	396	2598
49.2	3/Cx120+150mm2	No.	2476	446	2922
49.3	3/Cx185+240mm2	No.	2476	446	2922
50	33 KV AB Cable 3/C Straight Jointing kit				
50.1	3/Cx95+95mm2	No.	5962	1073	7035
50.2	3/Cx120+150mm2	No.	8438	1519	9957
50.3	3/Cx185+240mm2	No.	8438	1519	9957
51	33 KV STEEL STRUCTURE Galvanized by using steel of SAIL/TATA rates complete in all respect I/C Base plate, GI Nuts, Bolts & Washers etc.				
51.1	CTs/PTs Wt.87.62 Kg	No.	6563	1181	7744
51.2	LA's/Post Insulators Wt.76.38Kg.	No.	5720	1030	6750

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51.3	Isolator/L& E Switch Wt.288.36 Kg.	No.	21597	3888	25485
51.4	11 KV NCT Wt.92.37 Kg	No.	6919	1245	8164
51.5	Combined 33 KV CT & PT unit complete weight 165 kg	No.	12358	2225	14583
51.6	Lattice Tower Strcutre D/C 42 ft long Wt. 653 KG	No.	48908	8804	57712
52	Fire fighting/Safety Eqpt. For Control Room.				
52.1	Dry Chemical type fire extinguisher 5 Kgs.	No.	871	157	1028
52.2	CO2 type fire extinguisher 10 Kgs.	No.	5229	941	6170
51.3	Gas Presser CTC fire extinguisher.	No.	1220	220	1440
53	Fire fighting/Safety Eqpt. For Yard.				
53.1	Dry Chemical type fire extinguisher 10 Kgs.	No.	1220	220	1440
53.2	CO2 type fire extinguisher 22.5 Kg.	No.	13072	2353	15425
53.3	Fire Buckets 10 Ltr. Capacity	No.	61	11	72
54	Switch Yard illumination system				
54.1	Mercury Lamp 250 Watt complete with water proof fitting alongwith pipe.	No.	5229	941	6170
55	Battery & Battery Charger				
55.1	NI-Cd Alkaline Batteries (Partial recombination type) with charger for 33/11KV & 66/11 KV S/Stn. As per Nigam's tech. Spec., relevant ISS with latest amendments.	Set.	86300	15534	101834
56	HT APFC Panel 12 KV, 4 Step with enclosures, Relay, Vacuum contractor, Reactor 0.2% S.R, HTHRC, Fuse 63/100 Amp 11KV all fittings, Panel, Busbar, Post Insulator, Structure, Elect Consumable etc. and all Acc reqd.				
	(i) Rating 3600 KVAR	No.	909081	163634	1072715
	(ii) Rating 3000 KVAR	No.	724950	130491	855441
	(iii) Rating 2400 KVAR	No.	711965	128154	840119
	Capacitor Cells 200 KVAR	No.	11536	2077	13613
	Capacitor Cells 400 KVAR	No.	20308	3655	23963
57	MISCELLANEOUS MATERIALS				
57.1	Transformer plat form(M.S) complete set Wt.69 Kg.	No.	3441	619	4060
57.2	T/F Platform Set (G.I.)compl. Wt.69 Kg	No.	4638	835	5473
57.3	11 KV Single Pole mounted GO/AB switch with operating handle and insulator	No.	4762	857	5619
57.4	Stay Sets 8' long complete with X-Plat 460mm of Angle 65x65x6 Elbow & rod Wt. 13.80 Kg. Consist of the following	No.			
a	Rod 20 mm dia 8 ft long Wt. 6.224 KG	No.	314	57	371
b	X-Plate 460mm of L 65x65x6mm Wt. 5.336 KG	No.	302	54	356
c	Elbow & Nut Wt. 2.240 KG	No.	114	20	134
	Total		730	131	861
57.4	GI Elbow & Nut Wt. 2.240 KG	No.	168	30	198
57.5	Earthing Rod Wt. 6.175 Kg.	No.	312	56	368
57.6	G.I. Pipe 40 mm dia 6 mtr. Long for earthing set. B - Class	No.	1611	290	1901
57.7	Phase plate for each phase set of 3 (on each H-Pole & 4- Pole)	Set	48	9	57
57.8	Danger Plate Enameled with Clamp	No.	58	10	68
57.9	Number Plate with Clamp	No.	58	10	68
57.10	D-Straps	No.	58	10	68
57.11	Insulated connectors	No.	61	11	72
57.12	L.T. Distribution box (sealable with lock facility) suitable for 10 No. Consumers. (2mm CRCA sheet box, Bus bars for load as per 25 KVA DT/Fs only with holes for incoming cable and O/G cable with rubber glands.	No.	436	78	514

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57.13	Earth Mat for switch yard 75x8mm	Ton	43509	7832	51341
57.14	Earthing of 33 KV S/Stn. With earth rod & Earthing plate	No.	4314	776	5090
57.15	LT Distribution panel board for 33 KV S/Stn. as per Nigam's tech. specification	No.	29665	5340	35005
57.16	C.I Pipe 250 mm dia 14mm thick for U/G railway x-ing	Mtr.	1403	253	1656
57.17	Premier Insulating Mat 'B' Class as per IS-15652:2006	Mtr.	2353	424	2777
57.18	LT Fuse Unit Board for use on DTs from 25,63,100 & 200 KVA Distribution Transformer	No.	521	94	615
57.19	HDPE Pipe 160 mm dia	Mtr.	601	108	709
57.20	G.I. Pipe 100 mm dia B - Class with clamp	Mtr.	258	46	304
58	Material Related to Meter Pillar Box				
58.1	Metallic Meter Pillar Box (MMPB) to house 20 Nos. of Single Phase Meters in accordance with approved design / drawing of Nigam with separators, in-let and out-let holes per cable, door lock, transparent glass cover for Meter Reading, Civil Works / Plinth etc. (20X1 MMPB)	No.	9504	1711	11215
58.2	Metallic Meter Box (MMB) to house 6 Nos. of Single Phase Meters in accordance with approved design / drawing of Nigam, in-let and out-let holes per cable, transparent glass cover for Meter Reading, to be mounted on PCC Poles etc (6 X 1 MMB)	No.	2053	370	2423
58.3	Metallic Meter Box (MMB) to house 4 Nos. of Single Phase Meters in accordance with approved design / drawing of Nigam, in-let and out-let holes per cable, transparent glass cover for Meter Reading, to be mounted on PCC Poles etc (4 X 1 MMB)	No.	1369	246	1615
58.4	Meter Outgoing Connectors Box	No.	1141	205	1346
58.5	Cleats 10 Hole for Routing of LT PVC Cables to be mounted on PCC Poles	No.	15	3	18
58.6	Cleats 5 Hole for Routing of LT PVC Cables to be mounted on PCC Poles	No.	14	3	17
59	11 KV Vaccum Interrupers				
59.1	Model WL-34599 M3+	No.	18474	3325	21799
59.2	Model VG-2	No.	19749	3555	23304
59.3	Model WL-33379 M3+	No.	20229	3641	23870
59.4	Model VL-35463.50+	No.	18474	3325	21799
60	33 KV Monopole				
60.1	PA Type Monopole	No.	187641	33775	221416
60.2	PB Type Monopole	No.	467914	84224	552138
60.3	PC Type Monopole	No.	629919	113386	743305
60.4	PD Type Monopole	No.	791501	142470	933971
61	Battery Bank along with Charger				
61.1	Battery Charger (per unit) of 24 V 200 AH Capacity	No.	43875	7897	51772
61.2	Battery Bank (per unit) of 24 V 200 AH Capacity	No.	49645	8936	58581
62	33KV LBS 33/0.400 KV	No.	200000	36000	236000
63	Test Terminal Block	No.	538	97	635
64	Various cable Accessories				
64.1	Insulated Piercing Connector (IPC) (50-150 mm ² / 50-150 mm ²)	No.	88	16	104
64.2	Insulated Piercing Connector (IPC) (16-95 mm ² / 4-50 mm ²)	No.	75	13	88
64.3	Suspension clamp with bracket (NFC Type) (25-70 mm ²)	No.	281	50	331
65	Mid - Span Joints				
(a)	Mid - Span Joints for 95 mm ²	No.	114	21	135
(b)	Mid - Span Joints for 50 mm ²	No.	104	19	123
(c)	Mid - Span Joints for 25 mm ²	No.	100	18	118

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65.1	Dead end clamp for bare messenger with hook bolt through Pole (16-95 mm ²)	No.	369	67	436
65.2	Bi-Metallic PG Clamp Cu/Al with Cover (12 mm Dia rod - 95 mm ² Al cable)	No.	189	34	223
65.3	Anchoring / Dead end clamp for 6/8 SWG (4.877 - 4.064 mm) GSL Tension Clamp (6/8 SWG (4.877 - 4.064 mm) GSL Dead End)	No.	420	76	496
65.4	SS Strap with adjustable screw (For Clamping of Armour for 25, 50, 95 mm ²) & Support GSL/jublie clamp (25, 50, 95 mm ²)	No.	13	2	15
65.5	Insulation mastic Tape (2 inch X 10 feet)	No.	672	121	793
65.6	Dead end clamp for armoured cable wooden cleat (Loop) (25-95 mm ²)	No.	381	69	450
65.7	Service Clamp for 2 core - 10 mm ² PVC cable with strap & buckle & bracket (2 Core - 10 mm ²)	No.	209	38	247
65.8	Insulated Bi-Metallic lags / Thimble (95 mm ²)	No.	356	64	420
65.9	LT Fuse box - SMC with pole clamp (30 inch X 18 inch X 8 inch)	No.	458	82	540
66	SS Cable ties releasable ARC				
(a)	SS Cable ties releasable ARC for Dia - 200 mm	No.	4	1	5
(b)	SS Cable ties releasable ARC for Dia - 250 mm	No.	5	1	6
67	33 KV GIS type Cable Box for 33 KV XLPE cables upto size of 3CX400 sq.mm	Set	134640	24235	158875
68	Caution Tape/ Warning Tape 150 mm wide 0.2 mm thick	Mtr.	89	16	105

The Steel to be used for fabrication of steel items should be of TATA/SAIL make only.


 Superintending Engineer/P&D,
 For C.E/PD&C, DHBVN, Hisar

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