

Annual Plan 2024-25 - Transmission SBU - Prioritisation of Projects

Priority 1 - RDSS Phase I works (to be carried out even if RDSS funding is not available)

Sl No	District / Package	Name of work	Project Cost (Rs. Lakh)	Outlay for 2024-25 (Rs. Lakh)
1	Trivandrum	Reconductoring of Parassala-Vellarada 33kV OH line using covered conductor	438	310
2		Reconductoring of Nedumangad-Chullimanoor 33kV OH line using covered conductor	338	331
3		Reconductoring of Nedumangad-Vithura 33kV OH line using covered conductor	201	191
4		Reconductoring of Attingal-Venjaramood 33kV OH line using covered conductor	321	305
5	Kollam	Reconductoring of Ambalapuram-Ezhukone 33kV OH line using covered conductor	194	130
6		Reconductoring of Ambalapuram-Chengamanad 33kV OH line using covered conductor	503	453
7		Reconductoring of Ambalapuram-Pooyappally 33kV OH line using covered conductor	426	351
8		Reconductoring of Ambalapuram-Puthoor 33kV OH line using covered conductor	407	332
9	Pathanamthitta	Reconductoring of Ranni-Mukkam 33kV OH line using covered conductor	389	339
10		Reconductoring of Edathua-Kadapra 33kV OH line using covered conductor	341	291
11		Reconductoring of Pathanamthitta-Ranni Perunad 33kV OH line using covered conductor	612	552
12	Alappuzha	Reconductoring of Thycattussery-Kuthiyathode 33kV OH line using covered conductor	357	337
13	Ernakulam	Reconductoring of North Paravur-Varappuzha 33kV OH line using covered conductor	462	262
14		Reconductoring of North Paravur-Vadakkera 33kV OH line using covered conductor	462	262
15	Idukki	Laying of 21km 33kV, 3X300 Sq mm,XLPE	1174	1174
16	Thrissur	Reconductoring of Valappad-Anchangady feeder OH line using covered conductor	175	115
17		Reconductoring of Guruvayur-Blangad 33kV OH line using covered conductor	550	350
18	Malappuram (Package 1)	Reconductoring of Melattur-Thazhekkode 33kV OH line using covered conductor	593	343
19		Reconductoring of Vairamcode-Kalpakanchery 33kV OH line using covered conductor	636	536
20		Kizhissery – Valluvambram(DOG conductor). Standardisation of 33kV SC line from 110kV Substation, Kizhissery to 33kV Substation, Valluvambram to Double Circuit line using ACSR Dog conductor.	390	390

SI No	District / Package	Name of work	Project Cost (Rs. Lakh)	Outlay for 2024-25 (Rs. Lakh)
21	Malappuram (Package 2)	Nilambur – Pothukallu.(DOG conductor) Conversion of 33kV SC to 33kV DC from Muttiyal to Adyanpara and providing control at Adyanpara using RMU.	121	121
22		Wandoor – Pookottumpadam. (DOG conductor) Conversion of 33KV SC line to (Wandoor-Kalikavu-Pookuttumpadam tap) to 33 KV DC Using 14 Mtr A pole and lattice poles.	252	252
23		Melattoor – Wandoor(DOG conductor). Standardisation of of 33kV Melattur-Wandoor Line by replacing existing PSC Poles	520	520
24		Edavanna – Wandoor(DOG conductor). Standardisation of 33 KV Edavanna-Wandoor Line by replacing existing PSC Poles	401	401
25		Nilambur – Akambadam Jn(UGC)-Reconductoring of 33 KV Line from Nilambur to Akampadam Junction (Nilambur-Adyanpara Line) with UG Cable	96	96
26		Edarikkode – Kooriyad(DOG conductor). Augmentation of 33kV Lines – 33kV DC line with DOG Conductor from 110kV Edarikkode Substation to 33kV Kooriyad Substation.	245	245
27		Vairamcode – Thirunavaya(DOG conductor). Conversion of 33kV SC line from Vairamcode to Tirunavaya to 33kV DC line.	164	164
28	Kozhikode	Reconductoring of Nallalam-Feroke 33kV OH line using UG cable	574	474
29	Kannur	Reconductoring of Kanjirode-Pazhassi 33kV OH line using covered conductor	1535	1335
30		Reconductoring of Panoor-Puthur 33kV OH line using covered conductor	622	522
31		Reconductoring of Azhikkode-Kannur Town 33kV OH line using covered conductor	441	361
32	Kasargode	Reconductoring of Mulleriya-Badiyaduka 33kV OH line using covered conductor	818	655
		Total	14758	12500

Annual Plan 2024-25 - Transmission SBU - Prioritisation of Projects

Priority 2 - RDSS Phase I works (to be executed as such if RDSS fundig available, otherwise to be re-routed and done using own funds)

SI No	District / Package	Name of work	Project Cost (Rs. Lakh)	Outlay for 2024-25 (Rs. Lakh)
1	Trivandrum	Reconductoring of Kilimanor-Kadakkal 33kV OH line using covered conductor	305	305
2		Reconductoring of Kilimanoor-Kallambalam 33kV OH line using covered conductor	482	482
3	Kollam	Reconductoring of Kottiyam-Kananalloor 33kV OH line using covered conductor	252	252
4	Alappuzha	Reconductoring of Punnapra-Thakazhy 33kV OH line using covered conductor	621	621
5	Ernakulam	Reconductoring of Perumbavoor-Kuruppampady 33kV OH line using covered conductor	370	370
6		Reconductoring of Moovattupuzha-Kalloorkkad 33kV OH line using covered conductor	971	971
7	Kozhikode	Reconductoring of Meppayur-Melady 33kV OH line using covered conductor	588	588
8		Reconductoring of Koyilandy-Balusserly 33kV OH line using covered conductor	606	606
		Total	4195	4195

Annual Plan 2024-25 - Transmission SBU - Prioritisation of Projects

Priority 3 - RDSS Phase I works (to be taken up only if RDSS fundig available)

SI No	District / Package	Name of work	Project Cost (Rs. Lakh)	Outlay for 2024-25 (Rs. Lakh)
1	Trivandrum	Reconductoring of Nedumangad-Aryanad 33kV OH line using covered conductor	353	353
2	Kollam	Reconductoring of Kottiyam-Adichanalloor 33kV OH line using covered conductor	381	381
3	Pathanamthitta	Reconductoring of Mallappally-Kumbanad 33kV OH line using covered conductor	354	354
4	Thrissur	Reconductoring of Irinjalakkuda-Parappukara 33kV DC OH line using covered conductor including standardisation	551	551
5	Malappuram	Reconductoring of Pulamanthole (Karinganad)-Koppam 33kV OH line using covered conductor	293	293
6		Reconductoring of Makkaraparamba-Pulamanthole (Palachode) 33kV OH line using covered conductor	365	365
		Total	2297	2297

Annual Plan 2024-25 - Transmission SBU - Prioritisation of Projects

Priority 4 - Deposit works

Sl. No.	Circle	Name of Deposit Work	Beneficiary	Project cost (Rs. Lakh)	Outlay for 2024-25 (Rs. Lakh)
1	Trivandrum	Construction of 110 kV UG cable feeder bays with 110 kV bus extension and 110 kV Bus coupler bay at 110 kV Substation, Kazhakuttom for providing additional power of 3 MVA each to Technopark Ph-I and Technopark Ph-II & III campus	Technopark	1620	100
2	Kottarakkara	Providing 110kV two phase supply to 110kV traction substation at Punalur	Railway	2875	300
3	Pathanamthitta	Shifting of 110kV Kakkad-Pathanamthitta double circuit line by replacing tower No.80 near Muthoot hospital for maintaining statutory clearance over the proposed flyover at Aban junction, Pathanamthitta	Muthoot Hospital	48	40
4	Alappuzha	Raising the height of Aroor-Thykattusery SC feeder in favour of NHAI for construction of 6 line elevated corridor	NHAI	770	770
5		Raising the height of Punnapra-Karuvatta feeder in favour of NHAI for construction of 6 line elevated corridor	NHAI	300	300
6		Raising the height of Nangarkulangara-Mavelikkara feeder in favour of NHAI for construction of 6 line elevated corridor	NHAI	500	500
7	Kalamassery	METRO Phase-2 works - Raising heights of 7 EHT feeders	KMRL	3217	1200
8		Providing 110kV supply to CUSAT - Conversion of 110kV SC to DC of 1KLVT feeder from Kalamassery to CUSAT and bay work at Kalamassery Substation	CUSAT	392	100
9		Raising the height of 1KLAR DC feeder in favour of NHAI for construction of 6 line elevated corridor	NHAI	220	220
10	Thrissur	LILO arrangement of CIAL Substation	CIAL	336	100
11		Construction of 33kV Substation at Puzhakkal and 33kV DC line in Pro-rata basis	Sobha city	500	500
12	Kozhikode	Construction of 33 kV Substation at NIT Campus (cost sharing)	NIT Calicut	736	75
		Total		11514	4205

Annual Plan 2024-25 - Transmission SBU - Prioritisation of Projects					
Priority 5 - Funded works					
Sl. No.	Circle	Name of Work	Project cost (Rs. Lakh)	Outlay for 2024-25 (Rs. Lakh)	Reduced outlay (Rs. Lakh)
RKI Funded Works					
1	Alappuzha	Upgradation of poopally-Kuttanadu portion of 6KTAL line to 110kV	1520	300	300
2		Upgradation of 66kv substation Kuttanad to 110 kv	405	150	150
3		Construction of new 110kV substation at Kavalam and 2 km DC line	2050	300	300
4		Construction of new 33kV substation at Kidangara and 33kV line	1380	200	200
		Total RKI Funded Works	5355	950	950
KIIFB Funded Projects					
1	TransGrid	GIS Package-V (Pathanamthitta & Kakkad 220kV Substations)	9788	4000	4000
2		Thrissivaperur Lines Package Ph II - Kunnamkulam-Punnayurkulam-Tirur 220/110kV MCMV line	12944	2000	2000
3		Kolathunadu Lines Package - Upgrading Mundayad-Mylatti 110 kV SC line to 220/110kV MCMV line	26250	4000	4000
4		Sabari Lines Package (220/110kV MCMV lines to Pathanamthitta and Kakkad substations)	17208	3000	3000
		Total KIIFB Funded Works	66190	13000	13000
KfW/MNRE Funded Projects					
1	TransGrid	Wayanad 400kV Substation (NGC)		1000	1000
2		Wayanad-Kasaragode 400kV line		10000	7000
3		Mannarkad 220kV Substation (AGC)		1000	350
4		Agali 220kV Substation (AGC)		1000	300
5		Vettathur-Mannarkad 220kV DC & 220/110kV MCMV lines (AGC)		1000	500
6		Mannarkkad-Agali 220kV DC line (AGC)		1000	80
7		Nirmala City 220kV Substation (RGC)		1000	350
8		Anakkaramedu 110kV Substation (RGC)		1000	240
9		Kuyilimala-Nirmala City 220/110kV MCMV line (RGC)		1000	400
10		Nirmala City-Kattappana 110kV MC line		500	100
11		Anakkaramedu-Nedumkandom 110kV DC line		700	100
		Total KfW/MNRE Funded Projects		19200	10420
PSDF Funded Works					
1	System Operation	Reliable Communication & Data acquisition scheme	17521	7000	3000
2		SAMAST	1756	13	55.3
3		Bus Bar Protection Scheme	1670	1000	162.1
4		Providing Line Differential Protection Scheme	261	61	26.4
5		Security Operation Centre, Integrated protection management, Travelling wave fault locator, Integration of PMU	2100	133	500
		Total PSDF Funded Works	23308	8207	3744

Annual Plan 2024-25 - Transmission SBU - Prioritisation of Projects

Priority 6 - Ongoing works

Sl. No.	Circle	Name of Work	Outlay for 2024-25 (Rs. Lakh)	Reduced Outlay (Rs.Lakh)
Transmission Normal Works				
1	Trivandrum	Construction of 110 kV UG cable feeder bay at 110 kV Substation TERLS for interlinking 110KV substation, Medical College by 110KV UG cable under TransGrid downstream work	172	172
2		Construction of New control room at 110kV Substation, Kattakada	150	150
3		Shifting of EHT & HT panels to new control room and cable trench works at 110kV SUBstation, Kattakada	250	250
4		110 kV Substation Palode (Upgradation) & Upgradation of 66 kV Attingal-Palode SC line to 110kV DC (Mithrimala to Palode)	300	300
5		Construction of 110 kV UG cable feeder bay at Veli Substation for interlinking with 110kV substation, Vizhinjam by 110KV UG cable under TransGrid downstream work (Veli)	117	117
6		Capacity enhancement of old inferior 10 MVA 110/11 kV Transformer with New 12.5 MVA 110/11 kV Transformer, Pothencode	171	171
7		Upgradation of 66KV TVT I and II Feeders to 110KV Double Circuit Line from Neyyattinkara to Thirumala (Balance Portion from Balaramapuram to Thirumala)	200	200
8		110kV switching station cum substation at Panthalacode by installing 2 Nos. of 12.5 MVA, 110/11kV Transformers	100	100
9		Minor capital and R&M works at various substations, lines and offices	500	400
		Trivandrum Total	1959	1860
10	Kottarakkara	Minor capital and R&M works at various substations, lines and offices	500	500
		Kottarakkara Total	500	500
11	Pathanathitta	Upgradation of Edappon Kozhencherry 66kV line to 110kV standards using existing towers with insulated Cross arms including 110kV Cable&Termination works at 220kV substation, Edappon	40	40
12		Minor capital and R&M works at various substations, lines and offices	293	250
		Pathanamthitta Total	333	290
13	Alappuzha	Upgradation of 66kV Substation Alappuzha to 110kV Substation by modification at 66 kV substation, Alappuzha and Upgradation of Pooppally-Alappuzha Portion to 110 kV under TC section, Alappuzha	200	200
14		Minor capital and R&M works at various substations, lines and offices	400	400
		Alappuzha Total	600	600
15		Upgradation of 66kV Substation, Gandhi Nagar to 110kV	170	170
16		Upgradation of 66kV SC line from Koothattukulam to Kuravilangadu to 110 KV DC line	200	200

Sl. No.	Circle	Name of Work	Outlay for 2024-25 (Rs. Lakh)	Reduced Outlay (Rs.Lakh)
17	Poovanthuruthu	Upgradation of 66kV SC line from Pala to Ettumanoor to 110 KV DC line	300	300
18		Construction of 110 kV substation at Vazhoor	150	150
19		Minor capital and R&M works at various substations, lines and offices	180	180
		Poovanthuruth Total	1000	1000
20	Thodupuzha	Renovation of 110 kV Sub Station, Perumbavoor.	200	200
21		Upgradation of balance portion of Idamalayar – Bhoothathankettu portion of 66kV Idamalayar Kothamangalam feeder to 110kV DC for BHEP evacuation	50	50
22		Construction of 110 kV Sub Station, Murickasserry and 5.5km Konnathady-Murickasserry 110 kV DC line	150	150
23		Minor capital and R&M works at various substations, lines and offices	250	250
		Thodupuzha Total	650	650
24	Kalamassery	110kV Cherai-Njarakkal line and 110kV Mannam-Cherai DC line - compensation	600	500
25		Njarakkal substation upgradation to 110 kV	500	500
26		Minor capital and R&M works at various substations, lines and offices	400	350
		Kalamassery Total	1500	1350
27	Thrissur	Construction of 33kV S/s THUMBOOR by LILO arrangement from 3IJPR line at Ongichira	150	150
28		Construction of 2 nos 110/11kV transformer bays and installing 2 nos 110/11kV 12.5 MVA Transformer at Karukutty S/s	50	50
29		33kV Bay addition at Kallettumkara and interlinking Kallettumkara S/S and Parappukkara S/s	50	50
30		Minor capital and R&M works at various substations, lines and offices	1041	700
		Thrissur Total	1291	950
31	Palakkad	Revamping the 22kV System at 220kV Substation Palakkad	200	200
32		Capacity Enhancement and 110kV Bus extension at 110kV Substation Kanjikode	500	400
33		Up gradation of Vennakkara Nemmara 66KV SC line to 110KV DC line from Kalapetty to Nemmara	50	50
34		Upgradation of 66 kV Substation, Kannampully to 110 kV level	50	50
35		Construction of GIS at 110kV side yard & other allied works at 220kV S/S Shoranur	50	50
36		Upgradation of 66kV substation Chittur to 110kV level	100	100
37		Construction of 110kV line DC for LILO arrangement from 1PKKE feeder for Upgradation of 66kV Sub Station Chittur to 110kV level	10	10
		Palakkad Total	960	860
38		Construction of 110kV GIS substation, Malappuram with double busbar & bus coupler facility	700	500

Sl. No.	Circle	Name of Work	Outlay for 2024-25 (Rs. Lakh)	Reduced Outlay (Rs.Lakh)
39	Malappuram	220kV S/s, Malaparamba- Enhancing capacity of 2x12.5MVA, 110/11kV Transformer to 2x20MVA, 110/11kV Transformers.	100	100
40		110kV Parappanangadi - MAT interlinking with Bay Extension	100	80
41		Upgradation of 66kV to 110kV DC line Elachola- Malappuram line	100	100
42		Minor capital and R&M works at various substations, lines and offices	300	300
		Malappuram Total	1300	1080
43	Kozhikode	Doubling of 66 kV Nallalam-Kunnamangalam feeder - Part 1 - Phase-1 - Methottuthazham to Kuttikkattoor	200	150
44		Upgradation of 66kV SS Kuthumunda to 110kV	200	150
45		Upgradation of the 66 kv Substation Anjukunnu to 110kV level	150	150
46		Upgradation and conversion of Kuthumunda -Thamarassery Feeder	300	200
47		Doubling of 66kV Kaniyambetta-Mananthavady line in 110kV standard	50	50
48		Upgradation of 220/66 kV Substation Kaniyambetta to 220/110kV standard with enhanced staion capacity and implementation of SAS	100	100
49		PTRU Transformer repair works	25	25
50		Upgradation of the 66kV Substation Mananthavady to 110kV level	200	200
51		Doubling of 66kV Kainatty-Bathery line in 110kV standard	75	75
52		Upgradation of the 66 Kv Substation Sulthan Bathery to 110kV level	25	25
53		Balusserly control room	50	50
54	Minor capital and R&M works at various substations, lines and offices	50	50	
		Kozhikode Total	1425	1225
55	Kannur	Upgradation of 6.30km 66kV Single Circuit Line to 110kV DC Line from Kadachira to Chovva tap	50	50
56		Conversion of 6.50km 110kV Single Circuit line to 110KV Double Circuit line from Pinarayi Substation to Kadachira	50	50
57		Upgradation of 33 kV Substation Pariyaram to 110kV and associated line	500	400
58		220KV SS Mylatty - construction of 220kv feeder bays and 110kV feeder bays under Transgrid down stream works.	100	100
59		Upgradation of 12 km 110 kV SC Line from 220kV Mylatty S/s to 110kV Vidyanagar S/s to 220/110 MCMV line using narrow based towers on Turnkey Basis	600	500
60		Construction of 110 kV Substation at Kuttikol	400	250
61		Construction of DC line to Kuttikol	200	150
62		Minor capital and R&M works at various substations, lines and offices	150	150
		Kannur Total	2050	1650
		Transmission Total	13568	12015

Sl. No.	Circle	Name of Work	Outlay for 2024-25 (Rs. Lakh)	Reduced Outlay (Rs.Lakh)
System Operation Works				
1	CE (SO)	Upgradation of SCADA/EMS Systems	4100	4934
2	System Operation Circle, Kannur	Communication connectivity related equipments in connection with 400KV SS Kasargod	10	10
3		Purchase of spare MFT' s for various sections under CD Kannur	5	5
4		Purchase of spare Contact Multiplying relays for various sections under CD Kannur	2.5	2.5
5		Calibration of OTDR meter	0.5	0.5
6		Communication facility for 110KV Pariyaram SS	10	10
7		Purchase of RTU and MPLS device for proposed 110KV Kannampully SS	10	10
8		PD measurement kit	70	70
9		Modensitation of SOC,T&P Purchase etc	5	5
10		Purchase of Power quality Analyzer for SCADA Section Kannur with clamp	12.51	12.51
11		System Operation Circle, Trivandrum	Construction of Backup LDC, Tvm	1017
12	Replacement of Battery at Commn Rooms of SS & SCADA		13	31
13	Replacement of Battery Chargers		14	14
14	Providing ADMS at new locations coming up in Transmission plans including existing missed stations		10	8
15	Reliable communication for future projects as per Transmission plan		25	25
16	Purchase of laptops		2	2
17	Purchase of 1A DC/AC Clamp Meter/Multimeter		1.5	1.5
18	Shifting of RTU from Control to Communication Room		10	10
19	Purchase of AC for communication rooms		2.5	2.5
20	Retrofitting/ refurbishing /replacing/ Moderdinaton of various relays		75	75
21	Calibration of testing equipments		20	20
22	Integration of Relays for collection data to SLDC		50	50
23	Purchase of Computer / laptops with all accessories		0.5	0.5
24	Integrated Relay & Protection management (data acquisition, software & Hardware Licensing & purchae of necessary protocol		60	60
25	Purchase of furniture		2	2
26	Purchase of RTU & accessories for establishing connectivity to MCC & BCC		5	5
27	IR Tester for Relay Subdivisions		6	6
28	Digital Multimeter/ Clamp meters& other accessories		2.5	2.5
29	Periodical training for Relay wing		2.5	2.5
30	Procurement of Six channel Dynamic Contact Resistance Measurement kit with all accessories for testing Circuit Breakers		32	32
31	1 Nos.of CT Analyzer kit for Relay Subdivisions, Thiruvananthapuram		44	44
32	Procurement of Tan delta Measurement Kit		90	90

Sl. No.	Circle	Name of Work	Outlay for 2024-25 (Rs. Lakh)	Reduced Outlay (Rs.Lakh)	
33	System Operation Circle, Kalamassery	CT Analyser	71.6	71.6	
34		Procurement of Six channel Dynamic Contact Resistance Measurement kit with all accessories for testing Circuit Breakers	32	32	
35		Replacement of battery for SCADA at LDC, Kalamassery	18	18	
36		AMC for SCADA (Payment for 4 quarters)	90	90	
37		Providing protection, communication and remote controlled operations at 220kV Substation, Kalamassery for the CUSAT 110kV Feeder	15	15	
38		Procurement of Distance/ differential Relays	18	18	
39		Purchase of laptop to PET Kalamassery	1	1	
40		Providing communication facilities at Thottiyar PH	4	4	
41		Establishing reliable communication project at PES, Pallivasal	4	4	
			System Operation Total	5964	6297
TransGrid Works					
A	TransGrid	KIIFB Funded Projects (KSEB portion)			
1		GIS Package-II Kottayam 400kV SS	50	50	
2		AIS Package-I (Manjeri, Chalakudy, Chithirapuram & Kothamangalam)	5	5	
3		GIS Package-IV (Ettumanoor & Vizhinjam)	5	5	
4		GIS Package-III (Kunnamkulam & Thalassery)	5	5	
5		North Malabar Lines Package Phase I ((Mundayad-Thalassery line & Malayamma-Kunnamangalam line)	25	25	
			Sub Total	90	90
B			KSEBL Own Fund Works		
1		Travancore Lines & Cable Package (TERLS-MC, Vizhinjam-Veli-Mut	3000	6000	
2		Mannarkkad-Vennakkara and Kalapetty-Vennakkara 220/110kV MCMV lines (Valluvanad Substation Package)	500	140	
3		Kuthunkal-Nedumkandam line	1000	200	
4		Downstream 220kV lines from 400kV Karindalam (Kasaragode) S/s	1000	150	
5		GIS Package Sasthamkotta	100	100	
6	GIS Package - GIS Thuravur	600	400		
7	GIS Package - GIS Irinjalakuda	200	200		
8	Vennakkara 220kV GIS (Valluvanad Lines Package)	100	100		
9	GIS Package - 220kV GIS Vengalur	1000	400		
10	Sasthamkotta-East Kallada line (Quilon Package)	500	130		
11	Norh South Interlink Phase II (Aluva-Kodungallur)	500	800		
12	Transgrid other works (compensation, bypass arrangement etc)	383	100		
13	220kV Vidyanagar (Kasaragode)	20	150		
		Sub Total	8903	8870	
		Transgrid Total	8993	8960	
		Ongoing Works Total	28525	27271	

Annual Plan 2024-25 - Transmission SBU - Prioritisation of Projects

Priority 7 - Replacement/Renovation Works

Sl. No.	Circle	Name of Work	Outlay for 2024-25 (Rs. Lakh)	Reduced Outlay (Rs.Lakh)
1	Trivandrum	Providing new 200 MVA 220/110 kV, Three phase Auto transformer, Pothencode by replacing single phase units	250	150
2		Upgradation of Paruthipara-TERLS-VELI 66kV DC line to 110kV DC line using wolf conductor - Balance portion of work Insertion of 1 No DC Tower at Tsunami Colony near Valiyaveli for enhancing ground / building clearance	100	50
3		Replacement of 2 Nos of 20 MVA, 110/66kV Transformers with new 2 Nos of 20 MVA, 110/11kV Transformers inconnection with dismantling of 66kV yard at 110kV Substation, Attingal.	200	150
4		Construction of GIS at Thirumala	200	150
5	Kottarakkara	Providing 110kV bay at 110kV Substation, Kavanad for Kavanad-Perinad Interlinking	130	130
6		Providing 110kV bay at 110kV Substation, Perinad for Kavanad-Perinad Interlinking	130	130
7		Erection of additional 200MVA, 220/110kV Transformer bank, Edamon	600	200
8		Deluge system for Power Transformers at 220kV substation, Edamon	150	100
9		Bay Modification of 110 kV Yard at 220 kV substation Kundara	209	200
10		Fire Protection system (High velocity jet Injection system), Kundara	200	200
11	Pathanamthitta	Replacing 11kV indoor panel -12panel set @ 66kV SS Chumatra	80	80
12		Construction of new 110kV feeder bay at 110kV substation, Thiruvalla for feeder re arrangement	50	50
13	Alappuzha	Constructing the extension of existing 110kV Double bus and upgradation of existing 66kV bus and feeder bays to 110kV level at 220kV Substation, Edappon	200	200
14		Construction of new subdivision office over the top of 220kV Control Room, Punnapra	30	20
15		Upgradation of 66kV AIS bays to 110kV GIS at 110 kV Substation Mavelikkara	200	100
16	Poovanthuruthu	Vaikom Phase II works for Capacity Enhancement with Double Bus Extension	200	150
17	Thodupuzha	Renovation of 220 kV Pallivasal-Udumalpettu feeder using Polymer insulator and using OPGW	145	145
18		Reconductoring of Viyyur-Kandasankadavu 110kV DC line	50	50
19		Rebuilding of bays at Kunnamkulam substation including SAS	100	100
20		Demolishing / rebuilding 66kV system and installing 110kV double bus arrangement for rearranging feeder and transformers at 110kV Substation Viyyur	100	80

Sl. No.	Circle	Name of Work	Outlay for 2024-25 (Rs. Lakh)	Reduced Outlay (Rs.Lakh)
21	Thrissur	Construction of 110kV double bus arrangement with Bus coupler to facilitate 2x20MVA 110/11kV Transformer bays, 2x16MVA 110/ 33 kV Transformers and 6 Nos. feeder bays at 110kV S/S Viyyur	100	80
22		Providing Man lift for 400kV Substation Madakkathara	100	100
23		Replacing damaged 12 Nos towers on 6 CHVI 1 & 2 Feeder to 110kV from 220kV Substation Chalakudy to 110kV Substation, Viyyur	125	125
24		Providing 400kV busbar protection with Main-1 & Main-2 numerical relays at 400kV SS Madakkathara	50	50
25		R&M of 220kV control & protection (shifting of CRP to the BCC at yard and integration to the SAS) at 400kV SS Madakkathara	50	50
26		Constuction of 110kV GIS at Chalakudy substation	100	100
27	Palakkad	Shifting of 1SHKP feeder bay by construction of new 110kv bay at 110kv S/s,Koppam	20	20
28		Reconducting of 110kV Shornur-Ottappalam line & replacing old and rusted MS towers	50	50
29	Malappuram	Construction of 2 nos of 110kV feeder bays at 110kV SS, Parappanangadi for MAT-Parappanagadi line	50	50
30		Construction of 33kV bay at 110kV Substation Edappal for Edappal-Tavanur Line	25	25
31		Implementation of SAS and upgradation of protection system at 220kV Substation Areakode	50	50
32		Replacement of indoor 11kV panels with 2000A 17-panel set at 110 kV Substation, Edappal	40	40
33	Kozhikode	Control room extension and allied works inconnection with replacing ODC with 10 panel set at 33kV S/S Pulpally	50	50
34	Kannur	Construction of 220kV feeder bays, 110kV bays & other works at 220KV Substation, Taliparamba	450	450
35	SOC, Kannur	Procurement of CT Analyser	35.8	35.8
36		Procurement of CB Analyser	32	32
37	SOC, Trivandrum	Computer/ Laptop with pheripherals (Printer - Includes Copy & Scanning facility)	3	3
38		Renovation/ Transfer of office (Vehicle parking space included)	10	10
39		Purchase of MFTs	3.5	3.5
40		Portable DGA Test Kit for testing of the transformer oils along with accessories for PET Subdivision, Edappon	79	79
41	SOC, Kalamassery	Procurement of Portable DGA Kit	79	79
42		Purchase of Energy Meter Testing and Calibrating kit	81	81
43		Three phase relay testing kit with advanced testing modules	70	70
44		Providing communication facilities at Bhoothathankettu PH	9	9

Annual Plan 2024-25 - Transmission SBU - Prioritisation of Projects

Priority 8 - New Works

Sl. No.	Circle	Name of Work	Outlay for 2024-25 (Rs. Lakh)	Reduced Outlay (Rs.Lakh)	Technical Criteria									Overall Grading	
					Existing transformer loading		Existing feeder loading		Additioal demand to be met		Loss Reduction		Whether to meet N-1 reliability		
					(%)	Weightage (max - 0.25)	(%)	Weightage (max - 0.25)	MW	Weightage (max - 0.20)	(kW)	Weightage (max - 0.20)	(Y / N)		Weightage (max - 0.10)
1	Trivandrum	Upgradation of Paruthipara-Thirumala 66kV DC line to 110kV DC using Wolf conductor - first phase from Paruthipara S/s to Vattiyoorkavu tapping tower (Loc 24)	50	50			90	0.25					Yes	0.1	0.35
2		Construction of 33kV Substation, Ottasekharamangalam and 33kV line	200	25					2	0.1	113.5	0.1	Yes	0.1	0.3
3	Kottarakkara	Construction of 110 kV Substation, Thevalakkara and associated lines	500	300	95	0.25			4.71	0.1	745	0.15	Yes	0.1	0.6
4		New 200MVA, 220/110kV Transformer at Edamon S/s	600	200	67	0.2							Yes	0.1	0.3
5		Conversion of 110kV Edamon-Ambalapuram-Kundara Single circuit line to Double circuit line	20	5			68	0.25	15	0.2	1050	0.2	Yes	0.1	0.75
6	Pathanamthitta	Construction of 110kV substation, Theodical and 6.9km 110kV LILO line from Pathanamthitta-Ranni feeder	100	100					25	0.2	360	0.1	Yes	0.1	0.4
7		Capacity enhancement of Tr. No.I to 12.5MVA at Mallappilly S/s	185	175	60	0.2	64	0.2	2.5	0.1			Yes	0.1	0.6
8	Alappuzha	Upgradation of Pallom-Mavelikkara 66kV DC line to 110kV - Phase I from Mavelikkara to Thiruvalla	200	200			46	0.15	27.25	0.2	1260	0.2	Yes	0.1	0.65
9		Upgradation of Edappon-Mavelikkara 66kV DC line to 110kV	200	200			56	0.2	139.17	0.2	68	0.1	Yes	0.1	0.6
10		Upgradation of 33kV Substation, Mannar to 110kV and construction of allied LILO line from Puliyoor to Mannar	50	50	81	0.25	73	0.25	21.41	0.2	347	0.1	Yes	0.1	0.9
11		Upgradation of 66kV Substation Cherthala to 110kV	50	30	87	0.25	88	0.25	4.4	0.1	6300	0.2	Yes	0.1	0.9
12	Poovanthuruthu	Upgradation of 66kV Substation, Kanjikuzhy to 110kV	150	150	78	0.25	71	0.25	11.06	0.2	701	0.15			0.85
13		Construction of 33kV Substation, Pinnakkanadu	63	63					2.7	0.1	35	0.1	Yes	0.1	0.3
14	Thodupuzha	Upgradation of 66kV Substation Odakkali to 110kV by upgrading Kothamangalam-Aluva 66kV DC line	20	20	70	0.2	75	0.25	20	0.2	1160	0.2	Yes	0.1	0.95
15		Upgradation of 66kV Substation Kattappana to 110kV	75	75	70	0.2	90	0.25	5	0.15	1200	0.2	Yes	0.1	0.9
16	Kalamassery	New 220/110kV 200MVA Transformer at Brahmapuram substation	1000	400	68	0.2	42	0.15	190	0.2	44.08	0.1	Yes	0.1	0.75
17	Thrissur	Construction of 33kV Substation, Elanadu and 33kV line from Pazhayannur substation	50	50	70	0.2	43	0.15	4.5	0.1	13.92	0.1			0.55
18		Construction of 7km 33kV line from Viyyur to Poomala	50	50			52	0.15					Yes	0.1	0.25
19		Construction of 110 kV Substation,Veloor	100	100					4.97	0.1	332	0.1			0.2
20		Adding 1x5MVA transformer at 33kV Substation, Alanellur	30	30	95	0.25	68	0.25	3	0.1	11.2	0.1	Yes	0.1	0.8
21		Adding 1x5MVA transformer at 33kV Substation, Thrithala	50	50	97	0.25			3	0.1	198	0.1	Yes	0.1	0.55
22		Construction of 110kV Substation, Padinjarangadi	200	150					5.5	0.15	127.48	0.1	Yes	0.1	0.35
23		Construction of 110kV Substation, Kothakurusi	10	100					5.2	0.15	232.78	0.1	Yes	0.1	0.35
24		Construction of 110/22kV substation at Windfarm, NIDA Kanjikode	50	50					10.7	0.2	70	0.1	Yes	0.1	0.4

Sl. No	Circle	Name of Work	Outlay for 2024-25	Reduced Outlay	Existing transformer loading		Existing feeder loading		Additioal demand to be met		Loss Reduction		Whether to meet N-1 reliability		Overall Grading
25	Palakkad	Capacity enhancement of 2x12.5MVA transformers to 2x20MVA at 220kV Substation, Shoranur	200	150	75	0.2			10	0.2			Yes	0.1	0.5
26		Installing 110/33kV 16MVA transformer at 110kV Substation Walayar and construction of 12km 33kV line to Velanthavalam Substation and MCL quarry	250	150					8	0.15	88	0.1	Yes	0.1	0.35
27		Enhancing capacity of 10MVA & 12.5MVA transformers to 2x20MVA at 110kV Substation Mannarkkad	100	100	98	0.25			10	0.2			Yes	0.1	0.55
28		Capacity enhancement of 2x12.5MVA transformers to 2x20MVA at 110kV Substation Ottapalam	40	40	78	0.2			8	0.15	61	0.1	Yes	0.1	0.55
29		Capacity enhancement of 2x100MVA transformers to 2x200MVA at 220kV Substation Shoranur	100	50	60	0.2			50	0.2			Yes	0.1	0.5
30		New 5MVA transformer at 33kV S/s Sreekrishnapuram	50	50	95	0.25			3	0.1	56	0.1	Yes	0.1	0.55
31		Upgradation of 66kV Kanjikode-Malabar Quarry line and 66kV Kozhinjampara Tap line to 110kV DC line from 110kV SS Kanjikode to 110kV SS Kozhinjampara	10	10			95	0.25	40	0.2	232	0.1	Yes	0.1	0.65
32		33kV interlinking line between 33kV Substation Thrithala and 33kV Substation Thiruvegappura	5	5			80	0.25					Yes	0.1	0.35
33		110kV DC interlinking line between 110kV Substation Melattur and 110kV Substation Mannarkkad	50	30			95	0.25	40	0.2			Yes	0.1	0.55
34		Malappuram	Constuction of 33kV Substation at Venniyur	150	150	90	0.25	105	0.25	8.87	0.15	60	0.1	Yes	0.1
35	Constuction of 33kV Substation Kunnumpuram and 33kV SC line from Chelari substation		150	150	85	0.25	61	0.2	4.2	0.1	117.11	0.1	Yes	0.1	0.75
36	Constuction of 110kV Substation Thiruvaly		300	200	78	0.2	75	0.25	9.38	0.15	493	0.10	Yes	0.1	0.8
37	Constuction of 110kV Substation, Kadampuzha		200	150	83	0.25	76	0.25	11.24	0.2	61	0.1	Yes	0.1	0.9
38	Constuction of 110kV Substation, Vengara		100	100	96	0.25	93	0.25	10.1	0.2	202	0.1	Yes	0.1	0.9
39	Capacity enhancement of 2x12.5MVA transformers to 2x20MVA at 110kV Substation, Edarikode		130	100	95	0.25			5	0.15	138	0.1	Yes	0.1	0.6
40	Capacity enhancement of 2x12.5MVA transformers to 2x20MVA at 110kV Substation, Ponnani		100	100	88	0.25			2	0.1	23	0.1	Yes	0.1	0.55
41	Capacity enhancement of 2x100MVA transformers to 2x200MVA at 220kV Substation, Malaparamba		50	50	104	0.25			60	0.2	937	0.15	Yes	0.1	0.7
42	Capacity enhancement of 1x12.5MVA transformer to 1x20MVA at 110kV Substation, Tirur		130	100	95	0.25			4	0.1	10	0.1	Yes	0.1	0.55
43	Adding 1x5MVA transformer at 33kV Substation, Othukkungal		50	50	100	0.25	98	0.25	3	0.1	27	0.1	Yes	0.1	0.8
44	Construction of 33kV Substation, INKEL and 33kV line		100	100	98	0.25	98	0.25	3.4	0.1	43	0.1	Yes	0.1	0.8
45	Adding 1x16MVA transformer at 110 kV substation, Edappal		50	50	90	0.25			2.7	0.1	54	0.1	Yes	0.1	0.55
46	Capacity enhancement of 2x12.5MVA transformers to 2x20MVA at 110kV Substation, Edappal		130	100	90	0.25			8	0.15	20	0.1	Yes	0.1	0.6
47	Capacity enhancement of 2x12.5MVA transformers to 2x20MVA at 110kV Substation, Parappanangadi		130	100	97	0.25			6.7	0.15	74.3	0.1	Yes	0.1	0.6
48	Construction of 33kV line using UG cable from Edappal to Tavanur Substation		25	25					3.5	0.1	46	0.1	Yes	0.1	0.3
49	Construction of 33kV Substation Karuvarakund and 33kV SC line from Melattur Substation	10	10	78	0.2	56	0.15	4	0.1	174.5	0.1			0.55	

Sl. No	Circle	Name of Work	Outlay for 2024-25	Reduced Outlay	Existing transformer loading		Existing feeder loading		Additioal demand to be met		Loss Reduction		Whether to meet N-1 reliability		Overall Grading
50		Construction of 110kV Substation, Venniyur	10	10	90	0.25	105	0.25	12	0.2	60	0.1			0.8
51		Adding 1x16MVA transformer at 110 kV substation, Nilambur	10	10	90	0.25					14.53	0.1	Yes	0.1	0.45
52		Construction of 110kV Substation Pulikkal	10	10					8	0.15	196	0.1			0.25
53		Construction of 110kV Substation Adivaram	200	200	65	0.2			3.6	0.1	487	0.1			0.4
54		Construction of 110kV Substation Pantheerankavu	200	200	66	0.2	48	0.15	11	0.2	276	0.1			0.65
55		Construction of 33kV line from Olikkal & Poovaramthod SHEPs to Urumi II SHEP and then to 110kV Substation Thambalamanna (14km) with feeder bays	25	25				0.25		0.2		0.2	Yes	0.1	0.75
56		Installation of second 5MVA transformer at 33 kV Substation, Urumi	100	100	60	0.2	Power evacuation	0.25	0		3.02	0.1	Yes	0.1	0.65
57	Kozhikode	Installation of 1x12.5MVA transformer at 110kV substation, Nadapuram	150	100	85	0.25			3	0.1	40	0.1	Yes	0.1	0.55
58		Upgradation of 66kV Substation, Puthiyara to 110kV	100	100	82	0.25					320	0.1		0.1	0.45
59		Capacity enhancement of 2x12.5MVA transformers to 2x20MVA at 110kV Substation, Westhill	150	125	80	0.25			3	0.1	12	0.1	Yes	0.1	0.55
60		Upgradation of 66kV Substation, Ambalaparamba to 110kV	25	75	60	0.2			4	0.1	1141	0.2			0.5
61		Construction of 33kV Substation at Nellikaparamba	50	25	56	0.15	64	0.2	4	0.1	6	0.1			0.55
62		Construction of Balussery-Kinalur & Melady-Meppayur 33kV lines	50	50	67	0.2	78	0.25			801	0.15			0.6
63		Construction of 110kV Substation Thimiri and line	200	100					6.6	0.15	344.79	0.1			0.25
64		Capacity enhancement of 2x12.5MVA transformers to 2x20MVA at 110kV Substation, Taliparamba	450	450	90	0.25			20	0.2	60.25	0.1	Yes	0.1	0.65
65	Kannur	Adding 1x12.5MVA transformer at 110kV Substation, Manjeswaram	50	50	70	0.2	74	0.25	2.9	0.1	34	0.1	Yes	0.1	0.75
66		Upgradation of 33kV Substation Neeleswaram to 110kV	200	150	100	0.25			5.3	0.15	476	0.1			0.5
67		Construction of 110kV Substation, Seethangoli and line	100	100	67	0.2			3	0.1	110	0.1			0.4
68		Construction of 33kV Substation, Pelemarva (Adoor, Kasaragod) and UG cable feeder	50	50	73	0.2			1.95	0.1	166	0.1			0.4
69		Construction of 400kV GIS substation, Edamon	100	100					262	0.2	11200	0.2	Yes	0.1	0.5
70		400/220kV LILo line to Edamon	100	100				0.2		0.2		0.1		0.5	
71		Travancore Lines Package (Kundara-Pothencode)	25	10							562	0.15	Yes	0.1	0.25
72		Upgradation of 66kV Pallom-Ettumanoor feeder	100	100					1.89	0.1	701	0.15			0.25
73		Kattapana - Peerumedu 110kV interlinking line	10	10					18.64	0.2	1400	0.2	Yes	0.1	0.5
74	TransGrid	Upgradation of Mavelikkara-Chakkuvally 66kV line to 110kV	10	25					1.44	0.1	741	0.15			0.25
75		Upgradation of Cherthala-Aroor 66kV line to 110kV	25	25					59	0.2	7185	0.2			0.4
76		Upgradation of 66kV tap line to Perumbavoor substation to 110kV	290	50					9.8	0.15	107	0.1			0.25