TPSODL

TP SOUTHERN ODISHA
DISTRIBUTION LIMITED

(A Joint Venture of Tata Power and Government of Odisha)

Capex DPR FY26-27

Case No. 78/2025

For You, With You, Always

ଆପଣଙ୍କ ପାଇଁ, ଆପଣଙ୍କ ସହିତ, ସର୍ବଦା

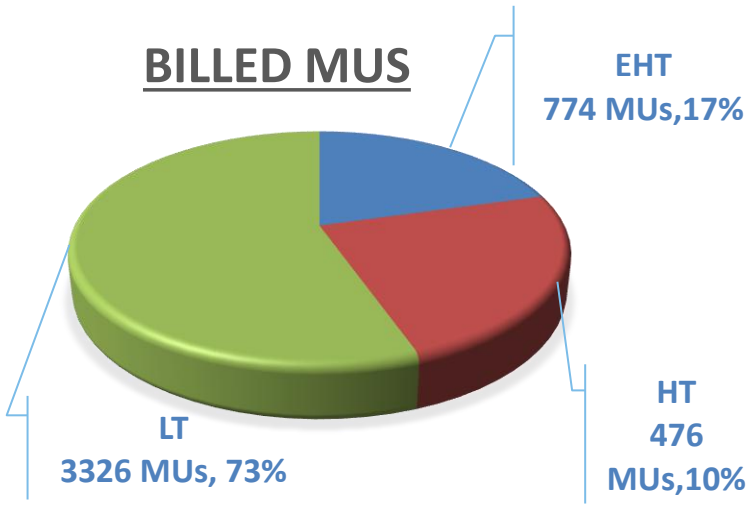
Agenda

- TPSODL Overview
- Year-wise & Category wise Capex Status
- Proposed Capex Detailed Budget
- Capex Plan FY 26-27
- Overview of Total Scope and Achievement under TPSODL
- Capex FY 26-27 Proposal Samples

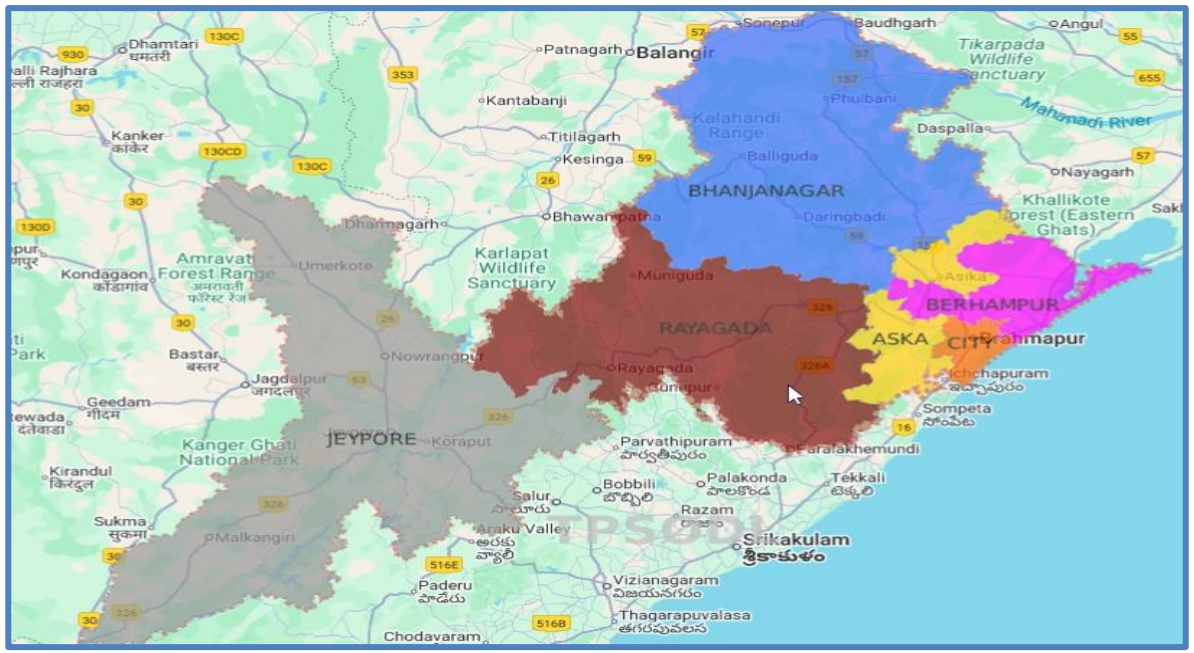
TPSODL Overview

	33/11kV PSS	PTR Capacity	DTR Capacity	33kV Line	11kV Line	LT Line
As on: 01/04/2021	224 nos	2106.85 MVA	2250.3 MVA	3635.96 CKm	39687.4 CKm	35337.1CKm
As on: 30/09/2025	259 nos	2947.55 MVA	3192.22MVA	4801.78 CKm	40270.65 CKm	35747.56 CKm
Growth	35 Nos	840.7 MVA	941.92 MVA	1165.82 CKM	583.25 CKM	410.46 CKM

Consumer Profile – FY'24-25



Category	Nos. of consumers
EHT	14
HT	794
LT	22,56,544
Total	**22,57,352**



Capex Progress Status as on 31st Dec 2025

Figures In Rs. Cr.

Status against eachh FY's approval

Financial Year	Approved	Actual CAPEX	Work In progress
FY 21-22	184.65	184.56	
FY 22-23	294.83	294.83	
FY 23-24	407.26	387.11	328.86
FY 24-25	373.26	312.29	
FY 25-26	286.75	39.02	
Total	**1546.72**	**1217.86**	**328.86**

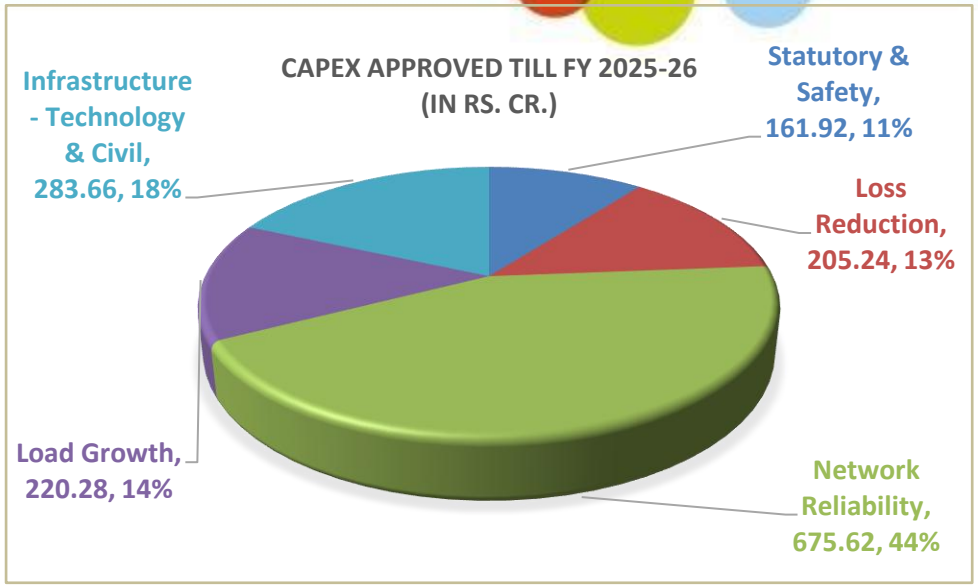
Status against Major Head wise approval

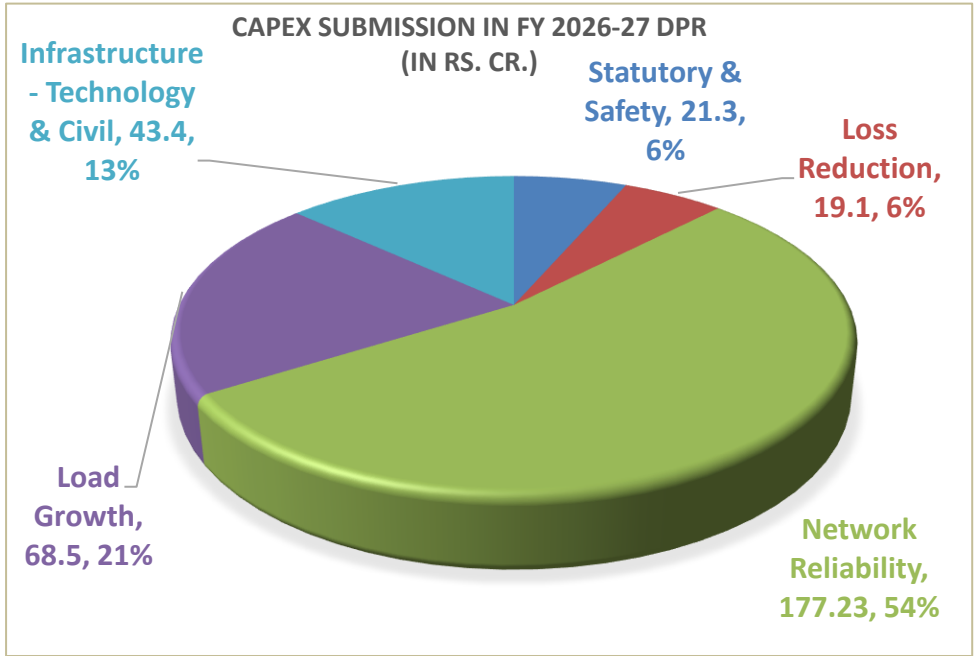
Category	Approved	Actual CAPEX	Work In Progress
Statutory & Safety	161.92	137.49	
Loss Reduction	205.24	146.19	
Reliability	675.62	513.5	
Load Growth	220.28	142.82	
IT & Infrastructure	283.66	275.87	
Total	**1546.72**	**1217.86**	**328.26**

TPSODL Proposed Capex FY 26-27 Budget Distribution

Category	CAPEX Approved Till FY 2025-26 (In Rs. Cr.)	% Distribution	CAPEX Submission in FY 2026-27 DPR (In Rs. Cr.)	% Distribution
Statutory & Safety	161.92	10%	21.3	6%
Loss Reduction	205.24	13%	19.1	6%
Network Reliability	675.62	44%	177.23	54%
Load Growth	220.28	14%	68.5	21%
Infrastructure-Technology & Civil	283.66	18%	43.4	13%
Total	**1546.72**		**329.53**	

Rs. 329.53 Cr. CAPEX for FY 26-27 is already approved by Board meeting in month of July





TPSODL

Proposed Capex Detailed Budget FY 26-27

Proposed Capex 26-27 - Detailed Budget Allocation

#	Major Category	Activity	Cost (in Rs. Cr.)
1	Statutory & Safety	Safety & Electrical Testing Equipment*	5
		Cradle guard at major road crossings, Populated area, School area	4
		Fencing of Distribution substations (DSS), Switchyard development at PSS	7
		Intermediate poles for vulnerable location	5
		Sub Total- Statutory & Safety (1)	**21**
2	Loss Reduction	LT Bare to ABC Conversion and Polycarbonate box	3
		Feeder & DT Metering for Energy Audit	13
		GIS Sustenance	3
		Sub Total- Loss Reduction (2)	**19**
3	Network Reliability	33 kV & 11 kV New Network Infrastructure	73
		Refurbishment of 33 KV & 11 KV Line	62
		PSS Refurbishment	13
		33 KV & 11 KV UG Cable	3
		33 KV & 11 KV(Auto-Recloser & Sectionalizer, RMU and FPI)	8
		DSS Refurbishment(AB switch, HG Fuse, LA, Earthing, Plinth, DP Structure)	3
		LV protection at DSS	5
		SCADA- automation and Security Surveillance at PSS	7
		River Crossing Infrastructure	3
		Sub-Total Network Reliability(3)	**177**

Proposed Capex 26-27 - Detailed Budget Allocation

#	Major Category	Activity	Cost (in Rs. Cr.)
4	Load Growth	New/Augmentation of PTR	24
		Augmentation / addition of Distribution Transformer along with associated lines	32
		Augmentation of LT ABC line	2
		Differential CAPEX to recover New Connections	10
		Sub Total- Load Growth(4)	**68**
5	Infrastructure-Technology & Civil	Build & Strengthen DC–DR Infrastructure & End-User IT Hardware, IT Applications & Software &Cybersecurity Solutions	22
		Civil Upgradation + New Zonal Office +Ready to Use Admin Asset++ Roof Top Solar + Water harvesting	15
		DT workshop at Jeypore	2
		Civil works at Store	4
		Sub Total –Infrastructure-Technology & Civil (5)	**43**
		Total =1+2+3+4+5	**329.53**

Overview of Total Scope and Achievement under TPSODL

Overview of Total Scope Vs. Achieved till date and Planning for Balance

Sl. No.	Activity	UOM	Total Scope across System	Approved so far (up to FY'26 DPR)	Planned under FY'27 DPR	Balance Quantity	Remarks	Priority Criteria
			A	B	C	D=A-(B+C)		
1	33kV New Line	CKm	929	122	60	747	Requirement finalized based on 5-Yr Load Growth Planning Study on CYME Dist. Software & field inputs.	• Radial to ring feeder conversion for the provision of N-1 power supply arrangement during contingency at key PSS. • Conversion of Tapping PSS to LILO for network reliability. • Load diversion to the new GSS to avoid overloading, as well as an alternate power supply arrangement.
2	33kV Line Upgradation/Refurbishment	CKm	1621	395	154	1071		• Conductors upgraded to avoid overloading to meet current and future load Growth. • Conductor upgradation considered for the provision of N-1 power arrangement during contingency.
3	11kV New Line	CKm	1576	243	128	1205		• Urban & Rural segregation • Overloading Mitigation • N-1 arrangement for reliability • Feeder segregation serving more than 4,000 consumers
4	11kV Line Upgradation/Refurbishment	CKm	3560	696	195	2669		• Conductors upgraded to avoid overloading to meet current and future load Growth. • Old-aged conductor upgradation • Mitigation of Frequent interrupted feeders • Urban and Critical feeders

Overview of Total Scope Vs. Achieved till date and Planning for Balance

Sl. No.	Activity	UOM	Total Scope across System	Approved so far (up to FY'26 DPR)	Planned under FY'27 DPR	Balance Quantity	Remarks	Priority Criteria
			A	B	C	D=A-(B+C)		
5	33/11kV PTR Augmentation / Mitigation of Vulnerable	Nos	131	28	12	91		• Existing PTR overloaded in ensuing FY • To enable load transfer flexibility or N-1 contingency support at Key PSS •Reuse of healthy PTR's for mitigation of overloading at some other PSS • Maintain substantial Firm Capacity at PSS
6	3-Ph DTR - New & Augmentation	Nos	5020	826	152	4042		• Mitigation planned for existing Overloaded DTR. • New DTR at load center to maintain voltage profile • Reuse of released DTR (Augmented) • Augmentation/New associated overloaded LT AB cable with DTR • Reuse of healthy DTRs for the mitigation of overloading at some other DSS • Replacement of Sick- Few qty. DTR having an adverse test result • Overloaded 1- Ph DTR's.
7	1-Ph to 3-Ph Conversion (DTs.)		19215	101	53	19061	Those DTRs which are critically overloaded are considered for augmentation to 3 Ph	
8	33 kV & 11 kV Breaker at PSS along with Protection Relay	Nos	841	824	17	0	Remaining feeders on group VCB are planned for individual protection in Capex FY27	• Individual protection for All Feeders/PTR's at PSS

Overview of Total Scope Vs. Achieved till date and Planning for Balance

Sl. No.	Activity	UOM	Total Scope across System	Approved so far (up to FY'26 DPR)	Planned under FY'27 DPR	Balance Quantity	Remarks	Priority Criteria
			A	B	C	D=A-(B+C)		
9	DSS Refurbishment (LA, AB Switch, plinth)	Nos	17287	3340	1690	12257		• Eliminating safety hazards and ensuring secure operations in high-risk areas. • A few key DSS are planned for refurbishment.
10	LV Protection for DSS	Nos	65199	5159	485	59555		• Fault-prone areas • DTRs in urban regions.
11	LT Bare to AB Conversion	CKM	2733	296	31	2405.99		•High Theft/Hooking-Prone Areas •Urban and Densely Populated Areas •Aged Infrastructure and Frequent Failures
12	Switchyard Development at PSS	Nos.	120	47	20	53		• Urban & Critical PSS planned
13	Fencing at DSS	Nos	8392	4519	250	3623		• Only Critical & vulnerable locations
14	Intermediate pole(33kV,11kV &LT)	Nos	39298	7328	1487	30483		• Long spans and road crossings to prevent conductor sagging, reduce mechanical stress, and enhance public safety.
15	Revamping/ Retrofitting of component at PSS	Nos.	153		73	80		• 73 nos. of PSS out of 253 nos. considered in priority
16	PSS Battery capacity enhancement	Nos. of PSS	163	0	91	72		• Battery capacity enhancement at 91 nos. PSS out of 163 nos. considered in priority.

TPSODL Proposed CAPEX FY 26-27: Output & Outcome

#	Major Category	Activity	Output of activity	Outcome of activity
1	Statutory & Safety	Safety & Electrical Testing Equipment	• Safety innovations to support next generation safety technologies. • Strengthening workplace safety and operational reliability • New DTR workshop at Jeypore plan under capex-27 required tools for repairing transformers.	• Minimizes equipment failure and field risk using modern tools • Reinforced protective safety culture across all departments. • Faster DT repairs and productive maintenance.
		Cradle guard at major road crossings, Populated area, School area	• Installation of 150 nos. cradle guards on identified 33 kV & 11 kV locations.	• Protection against conductor snapping • Improved public safety and reduced accident risk
		Fencing of Distribution substations (DSS), Switchyard development at PSS	• Fencing provided 2940 RM at DSS in public and vulnerable locations. • Switchyard improvement at 32 nos. PSS including drainage & gravel filling	• Ensuring Safety by prevention of unauthorized access and animal intrusion • Improved safety of assets and reliable power supply
		Intermediate poles for vulnerable location	• Installation of 1,477 nos. intermediate poles on 33 kV, 11 kV & LT lines, high sag span length	• This intervention will eliminate hazardous high-sag spans, preventing conductor snapping and reducing public safety risks in vulnerable corridors. It will also improve network reliability.

TPSODL Proposed CAPEX FY 26-27: Output & Outcome

#	Major Category	Activity	Output of activity	Outcome of activity
2	Loss Reduction	LT Bare to ABC Conversion and Polycarbonate box	• Conversion of 31.21 CKM LT bare conductor to AB cable • Installation of 2,326 polycarbonate boxes for LT distribution	Provide reliable power supply to consumer and eliminate the risk of electric shock and unauthorized hooking.
		Feeder & DT Metering for Energy Audit	• Installation of 5,600 nos. Feeder & DT metering across TPSODL	• Accurate energy accounting and audit • Identification of high-loss areas enabling targeted interventions
		GIS Sustenance	• Application Development by: ➢ Automatic SLD Generator ➢ Auto Digitization in GIS system from Drone images ➢ Scheme Creation through Web • Survey and Digitization for New & Missed Assets	• Enhanced asset visibility and planning accuracy • Faster fault localization and restoration

Outcome for conversion of Bare to LT ABC under Loss reduction

Sl. No.	Length of AB Cable Proposed (KM)	Reduction in Commercial Losses (Mus)	Reduction in Technical Losses (Estimated) (Mus)	Reduction in AT&C Losses (Mus)	Revenue benefit per annum due AT&C Loss reduction (Cr)	No of consumer served	Payback Period (Yrs.)
1	31.29	3.27	1.54	4.81	1.05	15238	1.89

TPSODL Proposed CAPEX FY 26-27: Output & Outcome

#	Major Category	Activity	Output of activity	Outcome of activity
3	Network Reliability	33 kV & 11 kV New Network Infrastructure	Construction of 127.65 ckm of new line in 11kV network and 60.45 ckm of new line in 33kv network with additional Bay/RMU as per requirement.	• Improved network reliability and load management • Reduced outage duration during contingencies • This will also enable N-1 redundancy and accommodate future load growth
		Refurbishment of 33 KV & 11 KV Line	33kV Refurbishment 154 CKM 11kV Refurbishment 195 CKM	• Reduced technical losses Improved conductor capacity and network strength • This will also enable N-1 redundancy and accommodate future load growth
		PSS Refurbishment	Electrical rejuvenation of 73 nos. PSS (earthing, relays, LA, batteries, bus-bars)	Improved substation safety and reliability Reduction in equipment failures and forced outages
		33 KV & 11 KV UG Cable	Laying of 3.9 km UG cable at critical and congested locations	• Underground cables eliminate interference from line crossings, reducing faults and accidents caused by induction. • Reduced weather and vegetation-related faults and improving network reliability

TPSODL Proposed CAPEX FY 26-27: Output & Outcome

#	Major Category	Activity	Output of activity	Outcome of activity
3	Network Reliability	33 KV & 11 KV(Auto-Recloser & Sectionalizer, RMU and FPI)	Installation of 12 nos of Auto-Reclosures & Sectionalizer, 6 nos. of RMU, 580 nos. of FPI on 33kV and 11kV feeders.	• Installation of ARs is proposed in 1 nos of 33kV feeders, and 3 nos of 11kV feeders which will reduce downtime occurring due to transient fault by 90%. They will also improve reliability • RMUs will enable rapid fault isolation and safe switching. They also enable Interconnectivity thus reducing downtime. • Installation of FPIs proposed in 70 nos of 33kV feeders and 222 nos of 11kV feeders which will enable quick identification of fault section thus drastically reducing patrolling / restoration time.
		DSS Refurbishment(AB switch, HG Fuse, LA, Earthing, Plinth, DP Structure)	Replacement of 1689 lumsum of Distribution transformers, including replacement of damaged components.	The restoration will eliminate hand-tripping practices, provide proper protection systems at DSS locations. It will also ensure local fault isolation
		LV protection at DSS	Installation of 485 nos of protection across DSS to safeguard LT networks.	These installations will prevent LT side faults from damaging transformers. Fault isolation at local level will improve reliability.
		SCADA- automation and Security Surveillance at PSS	SCADA equipment deployment at 30 PSS CCTV surveillance installed at 40 PSS	Centralized monitoring and faster operational response Improved security and reliability of substations
		River Crossing Infrastructure	Strengthening of 5 nos. river crossing locations	Reliable power supply during cyclone and reduces forced outages in vulnerable stretches.

TPSODL Outcome of Reliability network Proposal

33 kV New Lines -Under Reliability

Sl. No.	No. of 33 kV proposal	Load Bifurcation	Mitigation of Multiples feeders on Group VCB	Conversion of tapping to LILO arrangement at PSS	Enhancing N-1	Reduction in tripping	Reduction in consumer Hrs. Lost	No of consumer served	Remarks
1	28	4	5	7	7	114	22,65,145	426496	**Considered 60ckm new lines under** • Proposal for N-1 Arrangement by Interconnection • Proposal for load shifting • Feeders considered for Load Bifurcation • Conversion of Tapping to LILO Arrangement • Mitigation of over loading • Conversion of Radial to ring feeder

11 kV New Lines Under Reliability

Sl. No.	No. of 11 kV proposal	Enhancing N-1	Feeders considered for Load Bifurcation	Mitigation of multiple feeders on Group VCB	Reduction in tripping	Reduction in consumer Hrs. lost	No of consumer served	Remarks
1.	78	16	51	11	1664	58,41,011	260313	**Considered 128ckm new lines under** • Proposal for N-1 Arrangement by Interconnection • Proposal for load shifting • Mitigation for length reduction /Urban-Rural segregation

Outcome of Reliability network Proposal

33 kV Network Refurbishment- Under Reliability

Sl. No.	No of 33 kV proposal	Proposal for overload mitigation	Proposal for old aged network refurbishment	Enhancing N-1	Reduction in tripping	Reduction in consumer Hrs. lost	No of consumer served
1	23	8	9	6	157	20,06,313	462840

11 kV Network Refurbishment -Under Reliability

Sl. No.	No of 11 kV proposal	Proposal for overload mitigation	Proposal for old aged network refurbishment	Enhancing N-1	Reduction in tripping	Reduction in consumer Hrs. lost	No of consumer served
1	103	63	40	11	1891	68,72,074	309045

TPSODL Proposed CAPEX FY 26-27: Output & Outcome

#	Major Category	Activity	Output of activity	Outcome of activity
4	Load Growth	New/Augmentation of PTR	Augmentation of 9 nos of PTRs to higher capacity and 2 nos. of new PTR.	PTR augmentation and new PTR will eliminate overloading and cater additional load growth at primary substations. It will also enable load growth accommodation over next 5 years.
		Augmentation / addition of Distribution Transformer along with associated lines	Augmentation of 148nos of DTRs to higher capacity and installation of 83 nos of new DTR .	Augmentation/addition of DT will eliminate overloading, Accommodate future load growth over next 5 years, and improve voltage through long LT Line length reduction.
		Augmentation of LT ABC line	Augmentation of 29.37 CKm of LT ABC line across the network.	Provide reliable power supply to consumer and eliminate the risk of electric shock and unauthorized hooking.
		Differential CAPEX to recover New Connections	Differential CAPEX support for LT network extension, enhancement and service line works to cater new consumer connections and demand growth	This will ensure timely release of new connections and support load growth without deterioration of existing network performance
5	Infrastructure-Technology & Civil	Build & Strengthen DC–DR Infrastructure & End-User IT Hardware, IT Applications & Software &Cybersecurity Solutions	Upgradation of DC & DR computer and storage to support AMI rollout for 1 lakh consumers and CIS operations for 3.5 lakh consumers, along with provisioning of IT devices and network infrastructure to enable secure, reliable, and uninterrupted digital operations.	•Improved IT resilience, data security and system availability •Enhanced digital support for operations, billing and customer services

TPSODL Proposed CAPEX FY 26-27: Output & Outcome

#	Major Category	Activity	Output of activity	Outcome of activity
5	Infrastructure - Technology & Civil	Civil Upgradation + New Zonal Office +Ready to Use Admin Asset++ Roof Top Solar + Water harvesting	• New zonal office at Jeypore and refurbishment of existing offices . • Roof top solar and water harvesting to promote sustainable environment.	• Improve Workplace environment through maintaining functional facilities. It will strengthen consumer facing infrastructure resulting in higher customer satisfaction. • Carbon footprint reduction.
		DT workshop at Jeypore	• Development of 1 dedicated DT workshop building at Jeypore for transformer repairing and maintenance activities	Reduced DT repair turnaround time in southern command area hence reduced downtime ,improved reliability and consumer satisfaction.
		Civil works at Store	• Refurbishment and strengthening of existing central and regional stores including storage, handling and safety infrastructure	Improved inventory management and faster material availability contributing to improved reliability

TPSODL Division-wise classification of Capex Works

S. No.	Major Category	Activity	UoM	City			Berhampur			Aska			Bhanjanagar			Rayagada			Jeypore			
				BED-I	BED-II	BED-III	GNED	PSED	HED	AED-I	AED-II	GSED	BNED	PED	BOED	RED	PKED	GED	JED	KED	NED	MED
1	Statutory & Safety	Safety & Electrical Testing Equipment		Across TPSODL																		
		Cradle guard at major road crossings, Populated area, School area	EA	2	7		77	6		19	5	1	3	3	1	9	4	3	1		1	8
		Fencing of Distribution substations (DSS)	Nos.	10	16	13	12	12	11	14	10	13	13	13	12	20	10	20	14	18	8	11
		Switchyard development at PSS	Nos.	1			2	2						3	2	2	2	1	1	2	2	
		Intermediate poles for vulnerable location	Nos.	80	84	76	78	137	84	78	78	83	94	78	78	46	78	78	46	45	78	78
2	Loss Reduction	LT Bare to ABC Conversion	Ckm	1.3	0.32	1.5	1.7	1.5	1.6	1.7	1.9	1.7	1.99	2.1	1.5	1.6	2.2	1.4	1.6	2	1.5	2.1
		Polycarbonate box	Nos.	900				1426														
		Feeder & DT Metering for Energy Audit	Nos.	Across TPSODL																		
		GIS implementation		Across TPSODL																		

Division-wise classification of Capex Works

S. No.	Major Category	Activity	UoM	City			Berhampur			Aska			Bhanjanagar			Rayagada			Jeypore			
				BED-I	BED-II	BED-III	GNED	PSED	HED	AED-I	AED-II	GSED	BNED	PED	BOED	RED	PKED	GED	JED	KED	NED	MED
3	Reliability	SCADA- automation and Security Surveillance at PSS	Lumsum	Across TPSODL																		
		PSS Refurbishment	Lumsum	5	2	1	3	5	3	3	4		3	5	2	1	18		6	6	2	4
		33 kV & 11 kV New Network Infrastructure	Ckm	18	3	9	3	15	1	5	2	2	3	26		5	10	7	26	26	23	5
		Refurbishment of 33 KV & 11 KV Line	Ckm	33	10	33	54	4	10	15	15	5	18	4	22	16	12	16	2	27	48	10
		33kV AB Switch,Isolator & 11kV AB Switch	Nos.	8	7	8	10	11	11	13	9	10	16	20	15	10	12	15	20	19	9	10
		33kV & 11kV Covered Conductor	Ckm			2		1	1	1	1	0.2	0.3	3	1	2	12		1	2	3	
		33 KV & 11 KV UG Cable	Km	0.3		0.3	1	1	0.3	0.3	1							0.3		0.3		
		33 KV & 11 KV (AutoRecloser & Sectionalizer)	Nos.			3		6			3											
		33 KV & 11 KV RMU	Nos.	1	1									1		1	1			1		
		33 KV & 11 KV FPI	Set	56	38	46	10	31	24	21	27	26	28	24	21	23	26	34	25	70	25	25
		DSS Refurbishment	No. of DSS	49	59	48	4	32	6	26	6	11	13		8	6	12	8	7	8	6	6
		LV protection	Nos.	118	31	74	10	44	13	19	19	19	17	15	4	14	19	14	16	20	8	11
		River Crossing Infrastructure	Nos.					1			1		2					1				

Division-wise classification of Capex Works

S. No.	Major Category	Activity	UoM	City			Berhampur			Aska			Bhanjanagar			Rayagada			Jeypore			
				BED-I	BED-II	BED-III	GNED	PSED	HED	AED-I	AED-II	GSED	BNED	PED	BOED	RED	PKED	GED	JED	KED	NED	MED
4	Network Optimisation & Load Growth	New/Augmentation and Relocation of freed PTR	Nos.				1			1	2		2	3	1		1			1	3	1
		Augmentation / addition of Distribution Transformer along with associated lines	Nos.	15	7	16	11	10	7	11	14	15	14	17	10	11	13	11	11	10	15	13
		Augmentation and addition of LT ABC line	Ckm					2	2	2	2	2	2	2	2		2	2	2	2	2	2
		Differential CAPEX to recover New Connections		Across TPSODL																		
5	Technology and Civil Infrastructure	Build & Strengthen DC–DR Infrastructure & End-User IT Hardware, IT Applications & Software & Cybersecurity Solutions	Nos.	Across TPSODL																		
		Civil Upgradation +Roof Top Solar+Water harvesting	Nos.	Across TPSODL																		
		Ready to Use Admin Asset	Nos.	Across TPSODL																		

Status of Low Voltage pockets in District HQ and City area

11 kV feeder considered (Nos)	DT Considered (Nos)	Low Voltage pockets identified		Balance Low voltage pockets after execution of FY 27 schemes		Remarks
		No of DTs	No of consumers facing low voltage	No of DTs	No of consumers facing low voltage	
126	4918	137	7203	108	6460	Balance number of DTs approx.20% will be further reduced by utilizing freed Distribution Transformers (DTRs) from augmented exiting Distribution transformers

Note- District headquarter towns (Ganjam, Chatrapur, Gajapati, Phulbani, Rayagada, Koraput, Nabrangpur, Malkangiri) Low Voltage observed during summer peak time

TPSODL

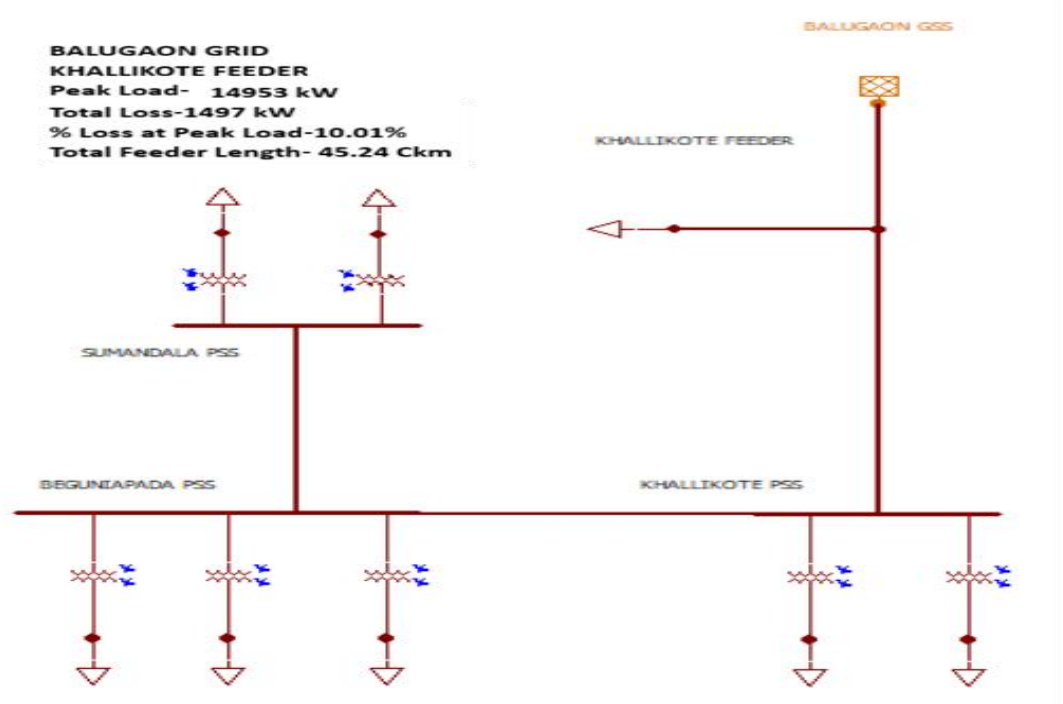
Capex Plan for FY 26-27 Sample Proposal

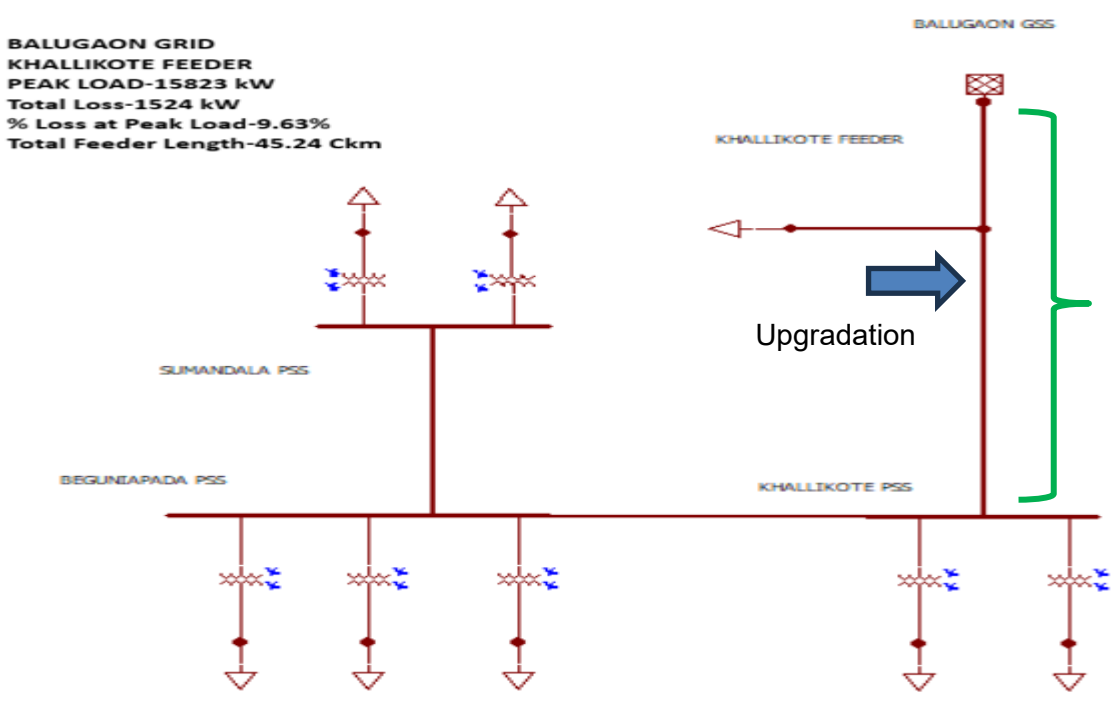
TPSODL 33kV Khallikote Fdr –Line Refurbishment Proposal

Refurbishment of 33kV line from Balugaon GSS to Khallikote PSS from 100 sqmm to 148 sqmm with length of 16Ckm, to mitigate overloading scenario of existing 33kV Khallikote Feeder emanating from 132/33kV Balugaon GSS

Existing Scenario								
AS IS						AFTER LOAD GROWTH		
Name of GSS	33KV Feeder Name	Feeder Capacity (MVA)	Peak Loading (MVA)	Tail end Voltage (KV)	Feeder Overloading Status (AS IS)	Peak Loading (MVA)	Tail end Voltage (KV)	Feeder Overloading Status (AS IS)
Balugaon	Khallikote	15.54	11.42	30.9	NO	16.61	29.3	YES

Loading after Proposal					
Name of GSS	33KV Feeder Name	Feeder Capacity	Projected load after load growth (MVA)	Tail end Voltage (KV)	Feeder Overloading Status
Balugaon	Khallikote	20	16.61	31.2	NO



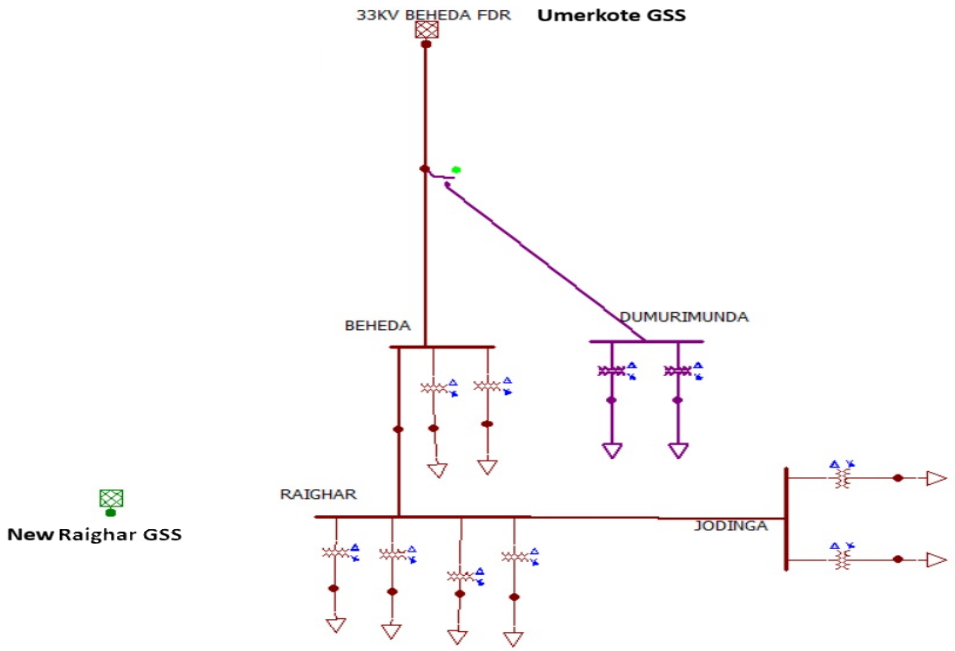


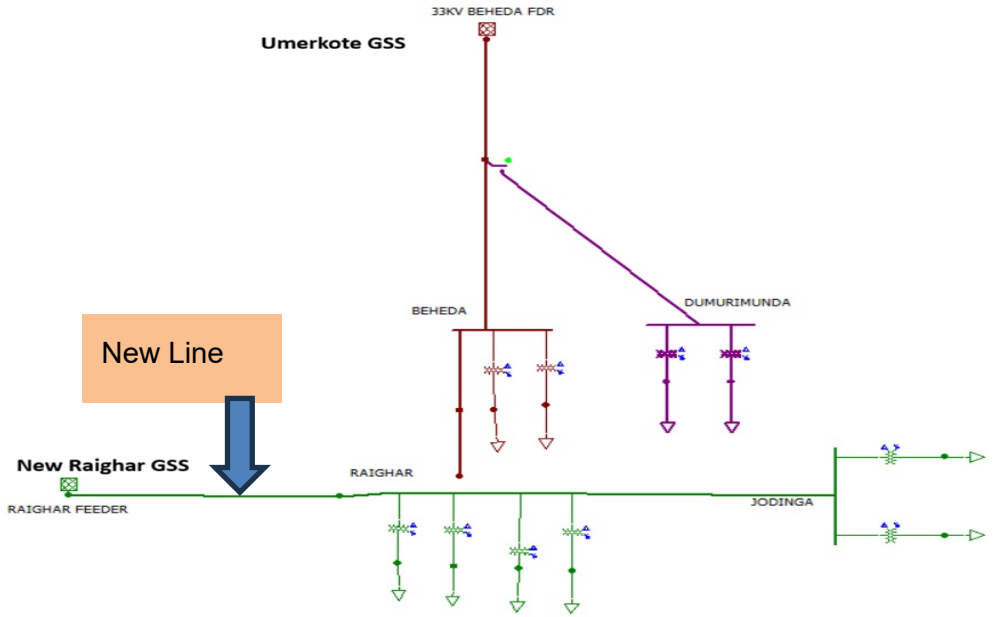
33kV Beheda Feeder –New Line Proposal

To mitigate the overloading of the 33kV Beheda Feeder emanating from the existing Umerkote GSS, a new 33kV feeder is proposed through a 33kV link line from the upcoming Raighar GSS to Raighar PSS for load diversion (load shifting) to the new Raighar GSS.

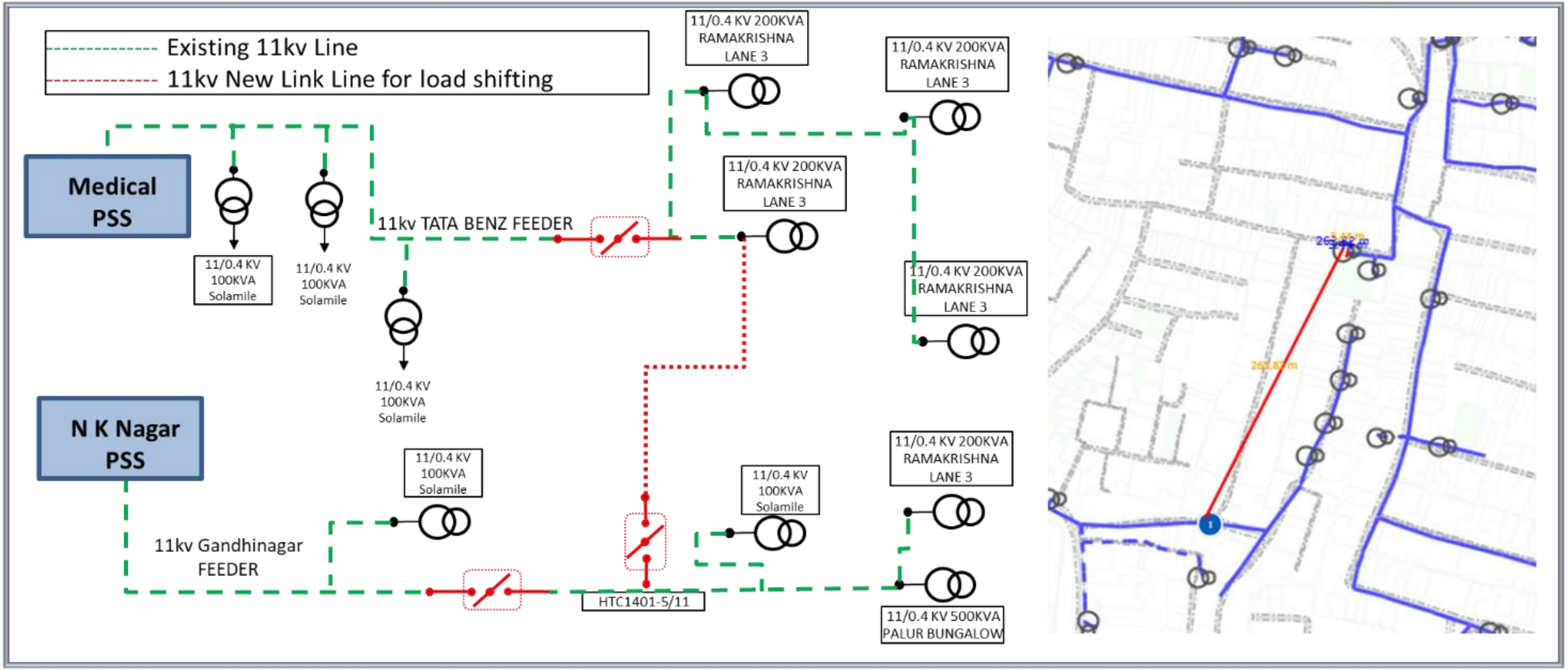
Existing Scenario								
AS IS						AFTER LOAD GROWTH		
Name of GSS	33KV Feeder Name	Feeder Capacity (MVA)	Peak Loading (MVA)	Tail end Voltage (KV)	Feeder Overloading Status (AS IS)	Peak Loading (MVA)	Tail end Voltage (KV)	Feeder Overloading Status (AS IS)
Umerkote	Beheda	20	27.2	28.01	NO	37.9	22.34	YES

Loading after Proposal					
Name of GSS	33KV Feeder Name	Feeder Capacity	Projected load after load growth (MVA)	Tail end Voltage (KV)	Feeder Overloading Status
Umerkote	Beheda	20	9	31.5	NO
Raighar	Raighar	26.52	28.9	32.5	NO

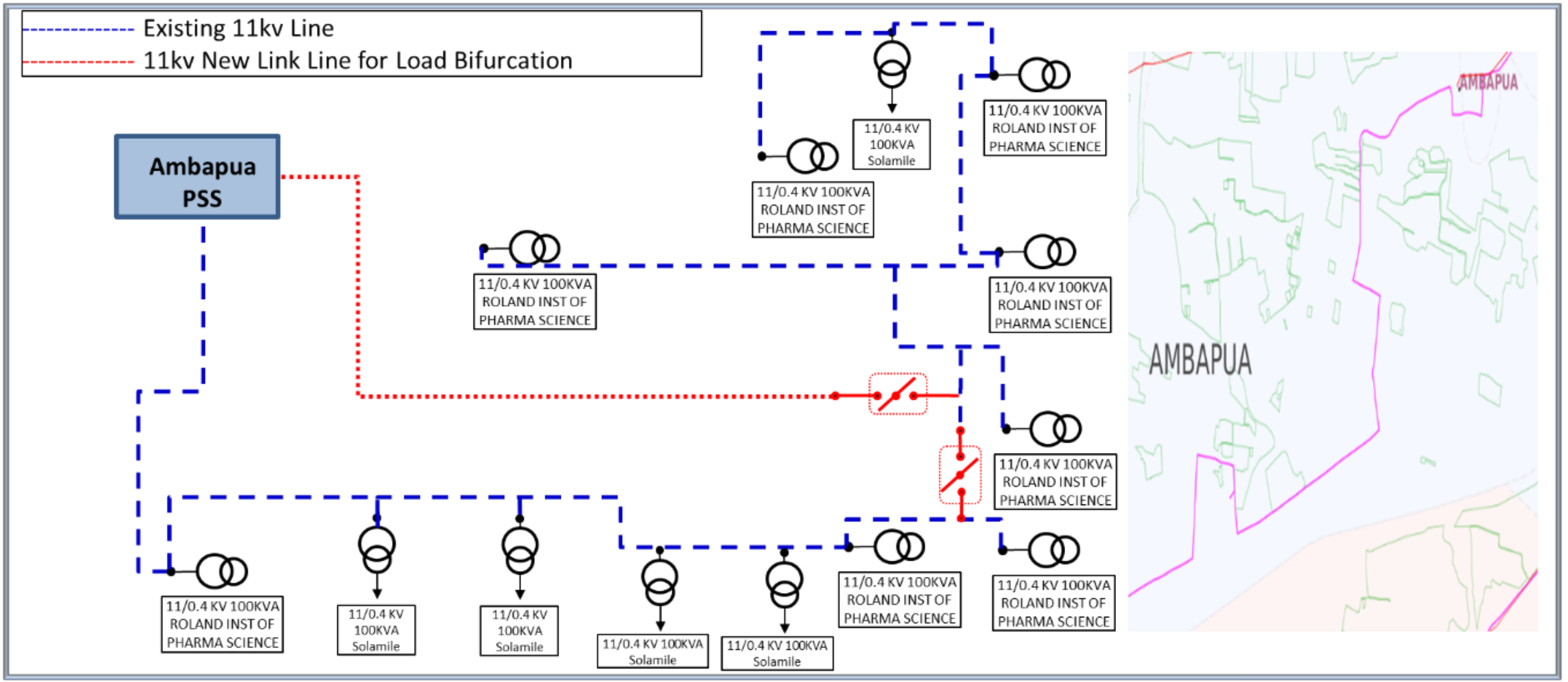




11kv New Link Line for N-1 Arrangement by Interconnection



11kv New Link Line for Feeders considered for Load Bifurcation



Thank You!