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21 SEP 2026

GOVERNMENT OF ODISHA
ENERGY DEPARTMENT
****

RESOLUTION

No. 11436 **/ En, Bhubaneswar Dated the** 21 SEP 2026
ENG-TDER-RR-0008-2025

Odisha is witnessing unprecedented growth in electricity demand driven by rapid industrialization, urban expansion, development of large manufacturing clusters, increasing penetration of data centres and integration of renewable energy. In order to meet the growing power demand and ensure a secure, reliable and resilient transmission network, the Cabinet, after careful consideration of the proposal submitted by OPTCL, has approved a comprehensive long term transmission scheme aimed at strengthening of the Extra High Voltage (EHV) transmission system through development of new 765 kV, 400 kV and 220 kV transmission corridors, upgradation and augmentation of existing Grid Sub-Stations and transmission lines, and automation/ digitisation of transmission infrastructure.

The comprehensive scheme will be executed under the umbrella scheme Mukhya Mantri Shakti Bikash Yojana (MMSBY). The components under the scheme are indicated below.

2/19
DIR (Comj)
DIR (Op)
DIR (Fin)

A. **Construction of 765 kV GSSs & associated lines**
- Establishment of 765/400/220 kV GSS at Khuntuni (Betakholi) with associated transmission lines.
- Establishment of 765/400 kV GSS at Duburi with associated transmission lines.
- Establishment of 765/400 kV GSS at Kolabira with associated transmission lines.

B. **Construction of 400 kV GSSs & associated lines**
- 400/220/33 kV GSS at Titlagarh with upgradation of Nuapada GSS and associated lines.
- 400/220/132 kV GSS at Kansbahal and associated lines.

C. **Construction of 220 kV GSSs & associated lines**
- 220 kV GSSs at Koida, Indravati, Choudwar Industrial, Panikoili and Khandapada, along with associated transmission lines.
- Construction of new 220 kV transmission lines, including Sarasmal–Bargarh and Bhanjanagar–Balugada corridors.

D. **Upgradation/Augmentation of existing Sub-Stations and transmission lines**
- Upgradation/augmentation of identified existing GSSs and transmission corridors.
- Revamping of old GSS through replacement/modernisation of obsolete switchgear, protection and control systems along with installation of capacitor banks.
- Augmentation/replacement of transformer capacity at critical GSS to meet the increasing load.
- Conversion of identified existing ACSR transmission lines to HTLS conductors.
- Installation of modern relays, BCUs and communication systems.

E. **AI-based Inspection and Maintenance of Transmission Lines**

- Deployment of AI, drones, digital twins and predictive analytics for transmission-line inspection, condition monitoring, predictive maintenance and early identification of faults.

F. **State Assets Management System Phase-II (STAMS-II)**

- Expansion and integration of 116 additional Grid Sub-Stations under State Assets Management System Phase-II (STAMS-II) for strengthening automation, reliability, monitoring and centralized grid operation across OPTCL's network.

The detailed scope of work along with individual project cost is enclosed at **Annexure-I.**

These composite transmission infrastructure and modernisation interventions under MMSBY will substantially augment Odisha's transmission capacity, improve system stability, maintain N-1 redundancy, eliminate transmission bottlenecks, and ensure uninterrupted, high-quality, and reliable power supply to major industrial hubs, manufacturing clusters, urban load centres, and domestic consumers alike, thereby accelerating the socio-economic and industrial growth of the State. The detailed list of projects is enclosed at **Annexure-I.**

The total estimated cost of the composite project is Rs. 15,948.70 Crore, out of which 30% (Rs. 4,784.63 Crore) will be provided as equity support from the State Government and the rest 70% (Rs. 11,164.07 Crore) will be arranged by OPTCL. The scheme will be implemented over a period of four years, i.e., from FY 2026-27 to FY 2029-30. The component-wise financial requirement is indicated in the table below:

(Rs. in Crore)

Sl no	Component/Scope of Work	Estimated Cost	30% Equity by State Government	70% to be arranged by OPTCL
1.	Construction of 765 kV GSS & associated lines	8156.00	2446.80	5709.20
2.	Construction of 400 kV GSS & associated lines	2230.00	669.00	1561.00
3.	Construction of 220 kV GSS & associated lines	1442.95	432.89	1010.06
4.	Upgradation/Augmentation of existing sub-stations & Lines	3815.51	1144.65	2670.86
5.	AI based Inspection & Maintenance of Transmission Lines	96.05	28.82	67.23
6.	State Assets Management System Phase-II(STAMS-II)	208.19	62.46	145.73
	Total	**15948.70**	**4784.63**	**11,164.07**

OPTCL will be the implementing agency for the above projects and the assets created under the scheme will be owned by OPTCL. The projects shall be implemented through Engineering, Procurement and Construction (EPC) mode. The annual O&M expenditure will be reflected in the Annual Revenue Requirement (ARR) of OPTCL for consideration by OERC.

By Order of the Governor,

(Vishal Kumar Dev)
Additional Chief Secretary to Government.

Memo No. 11437 /En. Dated. 21 SEP 2026

Copy forwarded to the Director, Printing Stationery and Publication, Odisha, Cuttack with a request to publish this resolution in the next issue of Extra Ordinary Gazette and send 50 copies thereof to this Department.

21.09.2026
Special Secretary to Govt.

Memo No. 11438 /En. Dated. 21 SEP 2026

Copy forwarded to P.S to Hon'ble Chief Minister, Odisha /P.S to Hon'ble Deputy Chief Minister, A&FE and Energy, Odisha/ OSD to Chief Secretary, Odisha/ Pr. PS to DC-cum-ACS, Odisha / Sr. PS to Additional Chief Secretary to Govt., Energy Department for kind information of Hon'ble Chief Minister /Hon'ble Deputy Chief Minister, A&FE and Energy/ Chief Secretary / DC-cum-ACS/ Additional Chief Secretary to Govt., Energy Department.

21.09.2026
Special Secretary to Govt.

Memo No. 11439 /En. Dated. 21 SEP 2026

Copy forwarded to all Departments of Government of Odisha for information.

21.09.2026
Special Secretary to Govt.

Memo No. 11440 /En. Dated. 21 SEP 2026

Copy forwarded to all Officers/all sections, Energy Department for information.

21.09.2026
Special Secretary to Govt.

Memo No. 11441 /En. Dated. 21 SEP 2026

Copy forwarded to the Chairman and Managing Director, OHPC, Bhubaneswar / CMD, OPTCL, Bhubaneswar/ Secretary, OERC, Bhubaneswar/ MD, GRIDCO, Bhubaneswar/ MD, OPGC, Bhubaneswar / EIC (El.)-cum-PCEI, Odisha, Bhubaneswar / CEO, OREDA, Bhubaneswar / CEO, TPCODL, Bhubaneswar/ TPWODL, Burla, Sambalpur, TPNODL, Balasore/ TPSODL, Berhampur/ GEDCOL, Bhubaneswar / OCPL, Bhubaneswar for information.

21.09.2026.
Special Secretary to Govt.

Memo No. 11442 /En. Dated. 21 SEP 2026

Copy forwarded the Head, Portal Group, IT Centre, Lok Seva Bhawan, Bhubaneswar for information and necessary action. It is requested to take necessary steps for hosting this resolution in the website of Energy Department Urgently.

21.09.2026
Special Secretary to Govt.

Annexure-I

Project Details

1. **MMSBY-Construction of 765kV GSS & Lines**

1.1 765 kV GSS at Khuntuni (Betakholi):-

Sl. No.	Scope of the Project	Approx. Line length in Kms	Estimated Cost (In Cr.)
1	Establishment of 2x1500 MVA, 765/400/220 kV GIS substation at **Khuntuni (Betakholi)**.	-	1,633.00
2	765kV DC Line from proposed 765/400kV Grid S/S, Betakholi to PGCIL, Angul Grid Sub-Station.	76	592.00
3	400kV D/C line from proposed 765/400kV Grid S/S, Betakholi to 400/220 kV GSS Neulapoi.	32	174.00
4	400kV Quad Moose D/C line on M/C tower from proposed 765/400kV Grid S/S, Betakholi to 400/220 kV GSS Mendhasal	34	280.00
	Total		**2679.00**

1.2 765 kV GSS at Duburi:-

Sl. No.	Scope of the Project	Approx. Line length in Kms	Estimated Cost (In Cr.)
1	Establishment of 2x1500 MVA, 765/400 kV GIS Substation at **Duburi**.		1250.00
2	LILO of both circuits of Angul – Paradeep 765kV D/c line at Duburi 765/400kV substation	30	375.00
3	400kV D/C line from Duburi 765kV to Duburi-400kV	44	60.00
	Total		**1685.00**

1.3 765 kV GSS at Kolabira.

Sl. No.	Scope of the Project	Approx. Line length in Kms	Estimated Cost (In Cr.)
1	Establishment of 2x1500 MVA, 765/400 kV Substation at **Kolabira.**		802.00
2	765kV D/C line from Sundargarh-B to Kolabira	60	420.00

3	765kV D/C line from Duburi to Kolabira	290	2030.00
4	400kV D/C line from OPGC to Kolabira	60	270.00
	400kV D/C line from Hirakud floating solar to Kolabira	60	270.00
	Total		**3792.00**

The total cost of "MMSBY-Construction of 765kV GSS & Lines" is ₹8156.00 Crore.

2. **MMSBY-Construction of 400 kV GSS & Lines**

2.1 <u>400 kV GSS at Titlagarh with up gradation of Nuapada</u>.

Sl. No.	Scope of the Project	Approx. Line length in Kms	Estimated Cost (In Cr.)
1	400/220 /33kV Grid Sub-Station at **Titlagarh**	-	210.00
2	400kV D/C line from 765kV Kolabira GSS to 400kV Titlagarh GSS (245.00 Route Kms.)	245	1102.50
3	220KV D/C line from Titlagarh to 220kV GSS at Kesinga. (25.00 Route Kms.)	25	42.50
4	220/132kV GSS at Nuapada (upgradation)	-	105.00
5	220kV D/C line Titlagarh-Nuapada (114.00 Route Kms.)	114	210.00
	Total		**1670.00**

2.2 <u>400 kV GSS at Kansbahal:-</u>

Sl. No.	Scope of the Project	Approx. Line length in Kms	Estimated Cost (In Cr.)
1	Construction of 2x500 MVA + 2x200 MVA , 400/220/132 kV Grid S/S, **Kansbahal**	-	370.00
2	400 kV DC LILO of Sundargarh (PG) – Bisra (PG) line	20	110.00
3	220kV DC line from Kansbahal Grid S/S to 220/132/33kV Grid S/S Kuanrmunda	25	50.00
	132 kV DC line from Kansbahal Grid S/S to 132/33kV Grid S/S Kalunga	20	30.00
	Total		**560.00**

The total cost of "MMSBY-Construction of 400kV GSS & Lines" is ₹2230.00 Crore.

3. MMSBY-Construction of 220 kV GSS & Lines

3.1 220 kV GSS at Koida :-

Sl No	Projects	Line length in Kms.	Estimated cost (in Cr)
1	Construction of 220/132/33kV Grid S/S, **Koida** with 2X160MVA Auto trf and 2X80MVA Power Trf.	-	110.00
2	220kV DC line from Koida to Barbil GSS in Multi Circuit Tower	30	200.00
3	220kV SC line from Koida to Bonai via Taldihi	20	120.00
	Total		**430.00**

3.2 220 kV Indravati Pooling Station :-

Sl No	Projects	Line length in Kms.	Estimated cost (in Cr)
1	220/33kV Substation at Indravati with associated line for evacuation of 300MW floating solar.	-	163.49
2	220kV HTLS D/C line on M/C tower from pooling station to Indravati Power House (PH)	13	40.66
	Total		**204.15**

3.3 220kV GSS at Choudwar Industrial:-

Sl No	Projects	Line length in Kms.	Estimated cost (in Cr)
1	Establishment of 220/132/33kV Substation at Choudwar Industrial with associated lines (Upcoming Industrial load at OTM and system strengthening).	-	110.00
2	220kV D/C line Bidanasi -Choudwar Industrial	24	40.80
3	132kV LILO of Bidanasi-Choudwar line	8	8.00
4	132kV LILO of Bahugram-ICCL line	7	7.00
	Total		**165.80**

3.4 220kV GSS at Panikoili :-

Sl No	Projects	Line length in Kms.	Estimated cost (in Cr)
1	Construction of 220/132/33 kV AIS Substation at Panikoili		165.00
2	Construction of 220 KV Double Circuit LILO from 220 KV Duburi-Paradeep Line (Approx 20 Kms)	20	62.00
3	Construction of 132 KV Double Circuit LILO from 132 kV Jajpur Road-Kendrapada Line (Approx. 15 Kms)	15	17.00
	Total		**244.00**

3.5 220kV GSS at Khandapada:-

Sl No	Projects	Line length in Kms.	Estimated cost (in Cr)
1	220/132/33kV Substation at Khandapada		80.00
2	Associated 220kV & 132kV line (Bhanjanar)	25	25.00
	Total		**105.00**

3.6 220 kV Sarasmal–Bargarh New Line:-

Sl No	Projects	Line length in Kms.	Estimated cost (in Cr)
1	220kV D/C line from Sarasmal to Bargarh new with bay extension at both end	50	85.00

3.7 220 kV Bhanjanagar–Baliguda Line:-

Sl No	Projects	Line length in Kms.	Estimated cost (in Cr)
1	220kV D/C line from Bhanjanagar to Baliguda with bay extension at both end	110	209.00

The total cost of "MMSBY-Construction of 220kV GSS & Lines" is ₹ 1442.95 Crore.

4. MMSBY-Upgradation/Augmentation of Existing Sub-Stations/Lines

Sl No	Projects	Line length in Kms.	Estimated cost (in Cr)
1	Upgradation of existing 132kV Substation at **Chainpal**	-	65.00
	LILO of 220kV D/C line from Meramundali to TTPS	5	10.00
	Total		**75.00**
2	Up gradation of existing 132kV Substation at **Phulbani**		65.00
	220kV D/C line from Baliguda to Phulbani	80	156.00
	Total		**221.00**
3	Construction 2X100 MVA 220/33 KV Grid Substation at **Landeihill**by converting the under construction 220 KV Switching Station.	-	**54.26**
	Total		**54.26**
4	Upgrading the existing 132/33 kV **Rairangpur**GSS to 220/132/33 kV GSS	-	65.00
	220 kV DC line connectivity from Turumunga GSS.	35	133.00
	Total		**198.00**
5	Up gradation of 220/33 kV MRSS at **TATA Steel SEZ**, Gopalpur	-	**102.00**
6	Revamping of old GSSs through replacement of obsolete switchgear, protection, and control systems	-	**925.00**

	along with installation of Capacitor Banks at 50 GSSs (700MVAr total capacity).		
7	Conversion of existing ACSR transmission lines to HTLS conductors for higher power transfer capability (9nos.)	-	**855.23**
8	Augmentation and replacement of transformer capacity at key GSSs to meet growing demand.	-	**1150.86**
9	Installation of modern relays, BCUs, and communication systems for improved automation and reliability(47 GSSs)	-	**234.16**

Total Cost of "MMSBY-Upgradation/Augmentation of Existing Sub-Stations/Lines" is ₹ 3815.51Crore

5. **MMSBY -Al-Based Inspection and Maintenance of Transmission Lines**

Sl No	Projects	Estimated cost (in Cr)
1	Al-Based Inspection and Maintenance of Transmission Lines	96.05

6. **MMSBY- State Assets Management System Phase-II(STAMS-II)**

Sl No	Projects	Estimated cost (in Cr)
1	State Assets Management System Phase-II(STAMS-II)	208.19