

**TRANSMISSION CORPORATION OF TELANGANA LIMITED**



**COST DATA FOR  
SUPPLY OF 400kV,220kV,132kV & 33kV  
EQUIPMENT/MATERIAL  
AND  
STANDARD SCHEDULE OF RATES  
FOR ERECTION WORKS OF  
400/220/132KV PROJECTS  
FOR THE YEAR 2025-26**

## TRANSMISSION CORPORATION OF TELANGANA LIMITED

TGTRANSCO – Cost Data for Supply of 400/220/132/33KV Equipment/ Material and Standard Schedule of Rates for Erection works of 400kV, 220kV and 132KV Projects for the Year 2025-26 – Communicated -Regarding.

---

**T.O.O.No. CHIEF ENGINEER (Construction-1) Ms.No.2607, Dt.22.12.2025.**

**Read the following: -**

TGTRANSCO proposed Common Cost Data and SSR for 400kV, 220kV, 132kV & below Transmission works.

The Cost Data for Supply of 400/220/132/33kV Equipment/Material for the FY 2025-26 for 400kV, 220kV and 132kV Projects is prepared by obtaining the Budgetary Offers/ Price Variation over the previous Cost Data & Cost Data of neighbouring Power Utilities.

In respect of 33kV rates, the cost Data of TGSPDCL for 2025-26 is considered, wherever is necessary.

The Standard Schedule of Rates for Erection works of 400kV, 220kV and 132kV Projects are updated with All India Average Consumer Price Index numbers for Industrial Workers, communicated by Labour Bureau, Government of India.

**The Hon'ble TGERC conveyed approved rates vide letter dated 02.12.2025 read with letter dated 12.12.2025.**

### **ORDER:**

The Cost data for supply of 400/220/132/33kV Equipment/Material and Standard Schedule of Rates for erection works of 400kV, 220kV and 132kV Projects and O&M works for the year 2025-26 as approved by TGERC and rounded off to nearest rupee if the unit rate is less than Rs.1000/- and to the nearest Ten Rupees if the unit rate is more than Rs.1000/- as per the T.O.O.(CE/IT) Ms.No.941 Dt.05/01/2021, are communicated herewith for adoption in preparation of estimates and shall be applicable until further revision.

The approved Cost Data for supply of Equipment/Material and Standard Schedule of Rates for erection works of 400kV, 220kV and 132KV Projects for the year 2025-26 shall come into force from the date approval of TGERC i.e. 02.12.2025.

Encl: As above

(BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF TELANGANA LIMITED)

**D. KRISHNA BHASKAR, I.A.S  
CHAIRMAN AND MANAGING DIRECTOR**

To,

FA & CCA(R&A) & CFO /TGTRANS CO/Vidyut Soudha/Hyderabad.

FA & CCA(A&E) /TGTRANS CO/Vidyut Soudha/Hyderabad.

Chief Engineer/ 400kV / TGTRANS CO/Vidyut Soudha/Hyderabad.

Chief Engineer/ Construction-I&II / TGTRANS CO/Vidyut Soudha/Hyderabad.

Chief Engineer/Lift Irrigation Schemes/TGTRANS CO/Vidyut Soudha/Hyderabad.

Chief Engineer/ PRLIS/ TGTRANS CO/Vidyut Soudha/Hyderabad.

Chief Engineer/ Telecom/ TGTRANS CO/Vidyut Soudha/Hyderabad.

Chief Engineer/ 400kV /TGTRANS CO/Warangal.

Chief Engineer/ Transmission / TGTRANS CO/Vidyut Soudha/Hyderabad.

Chief Engineer/Metro-Rural-Warangal-Karimnagar/Zones

Chief Engineer /Civil/ TGTRANS CO/Vidyut Soudha/Hyderabad.

Chief Engineer/Telecom/ TGTRANS CO/Vidyut Soudha/Hyderabad.

Superintending Engineer/400 kV /Const/Metro/TGTRANS CO/Hyderabad.

Superintending Engineer/400 kV /Const/Rural/TGTRANS CO/Hyderabad.

Superintending Engineer/400 kV /Const/TGTRANS CO/Warangal.

Superintending Engineer/400 kV /Const/TGTRANS CO/Karimnagar.

SAO /P & A/TGTRANS CO/ Vidyut Soudha /Hyderabad

PS to Chairman & Managing Director/ TGTRANS CO / Vidyut Soudha /Hyderabad.

PS to Director/Finance, Comml. & HRD/ TGTRANS CO /Vidyut Soudha/Hyd.

DE(T) to Director /Projects / TGTRANS CO / Vidyut Soudha /Hyderabad.

ADE(T) to Director/ Grid & Transmission Management/ TGTRANS CO / Vidyut Soudha /Hyderabad.

//FORWARDED BY ORDER//



DIVISIONAL ENGINEER/CONSTRUCTION-M2



Direc'tr's

## TELANGANA ELECTRICITY REGULATORY COMMISSION

# Vidyuth Nyantran Bhavan, G.T.S Colony, Kalyan Nagar, Hyderabad – 500 045, Telangana  
Ph:(Off): 040-23397625 Fax:040-23397489 Email: secy-tgerc@telangana.gov.in

✓ To:

The Chairman & Managing Director,  
TGTRANSCO, Vidyut Soudha  
Hyderabad-500082



Lr.No:TGERC/Secy/E/F.No:E-811526/D.No: 867 / Dt: 02.12.2025  
Sir,

**Sub:** TGTRANSCO: Approval of Cost Data & Standard Schedule of Rates (SSR) for FY 2025-26 in respect of GIS Modules, EHV Cables, HTLS and other miscellaneous items and revised Cost data & SSR for erection works of 400/220/132/33KV projects for the FY 2025-26 and beyond FY 2025-26 until further revision- Approval accorded- Reg

- Ref:**
1. TGERC Regulation 4 of 2013 (Licensees duty for Supply of Electricity on request)
  2. Lr.No.CE/400kV/SE-I/DE/ADE/AE/400kVSSR2023-24-Approval/1160/24, Dt:27.01.25
  3. Lr.No.CE/400kV/ DE4 /ADE/AE/GIS Cost Data 2024-25/25, Dt.09.05.2025
  4. Lr.No. E/F.No 811526 /D.No.438, Dt:04/06/2025
  5. Lr.No. E/F.No.811526/D.No.511, Dt:07/07/2025
  6. Lr.No.CE/400kV/SE-I/DE-4/ADE/AE/Cost-Data/83/2025, Dt:11.08.2025
  7. Lr.No. CPT140/SE-I/ Cost Data and SSR 2025-26/400/25, Dt.26.09.2025
  8. Lr.No. E/F.No E-811526/D.No.779, Dated:29.10.2025
  9. Lr.No. E/F.No E-811526/D.No.818, Dated:07.11.2025
  10. Lr.No. CPT140/SE-I/Cost Data and SSR 2025-26/47/25, Dated: 13.11.2025.

@@@

With reference to the above cited, I am directed by the Commission to furnish the approved Cost Data and Standard Schedule of Rates (SSR) for FY 2025-26 in respect of GIS Modules, EHV Cables, HTLS and other miscellaneous items and revised Cost data and SSR for erection works of 400/220/132/33KV projects for the FY 2025-26. These approved cost data and Standard Schedule of Rates (SSR) for FY 2025-26 shall be applicable beyond the FY 2025-26 until further revision is done by the Commission.

Encl: Annexure

Yours sincerely,

  
Commission Secretary

## **TRANSMISSION CORPORATION OF TELANGANA LIMITED**

TGTRANSCO – Payment of Insurance charges to Contractors for 400kV,220kV &132kV Turnkey works - Amendment to Project Insurance Clause (c) of para (3) of T.O.O(CMD) Ms.No.2, Date:12.11.2013 - Regarding.

---

T.O.O (CE/400kV) Ms. No.2574.

Dated: 19-11-2025

### **Read the following:**

1. T.O.O(CMD) Ms.No.2, Date:12.11.2013

\* \* \*

### **ORDER:**

1. In the reference 1<sup>st</sup> cited, orders were issued on changes in Purchase procedure and Revision of estimates for equipment/material for turnkey tenders including Project Insurance clause.
2. Accordingly for the preparation of estimates for 220kV and 132kV turnkey works, provision for Project Insurance at 0.5% of the Total Project Cost is being included. This insurance cost shall be paid as per actual upon submission of original insurance documents. Further to above, as per the 2022–23 cost data, a separate provision of 1% insurance on material rates (Ex-Works price) is also allowed.
3. Whereas for preparation of estimates for 400kV works, as per the 2017–18 cost data, provision of 1% insurance on material rates (Ex-Works price) is allowed.
4. Discussions were held in this regard, and the Technical Committee has reviewed the loading of insurance on the project cost, examined actual trends, and recommended adopting a uniform methodology for payment of insurance for 400kV, 220kV, and 132kV works.
5. As such, after careful consideration, Transmission Corporation of Telangana Limited hereby accords approval for the following amendment to Clause (c) of para (3) of the Project Insurance provision under T.O.O. (CMD) Ms. No. 2, dated 12.11.2013.

S. No	Existing Project Insurance Clause	Amendment to the Project Insurance
1	<p>(3)(c) Project insurance to be shown as a separate item <u>@ 0.5%</u> of project cost (total cost of materials + labour) under Schedule B. This can be paid as per actuals or quoted rate whichever is lower on submission of original insurance documents.</p> <p><b>Explanatory Note:</b>            Estt. cost of Equipment/material = X            Estt. cost of Labour = Y            Project Insurance = Z = (X + Y) x 0.5%            Estimated Contract Value (ECV) = X + Y + Z.</p>	<p>(3)(c)(1) Project insurance to be shown in Schedule B as a separate item <u>@ 1%</u> of total project cost (total cost of materials (Schedule A) + labour (Schedule B)). This can be paid as per actuals or quoted rate whichever is lower on submission of original insurance documents.</p> <p><b>Explanatory Note:</b>            Estt. cost of Equipment/material (Sch.A) = X            Estt. cost of Labour (Sch.B) = Y            Project Insurance = Z = (X + Y) x 1%            Estimated Contract Value (ECV) = X + Y + Z.</p> <p>(2) The existing practice of loading Insurance <u>@1%</u> on ex works price in supply portion in the estimates for 400kV, 220kV &amp; 132kV Sub-Stations, Lines and Bays for future Tenders is dispensed with.</p>

6. The amendment is operative with immediate effect and shall be applicable for all 400kV, 220kV & 132kV future Tenders. The other clauses of T.O.O(CMD) Ms.No.2, Date: 12.11.2013 will remain unchanged.
7. The order is issued with the concurrence of Director (Finance, Comml. & HRD)/TGTransco vide Regd. No.1448, Dated.03.11.2025
8. These orders are also available on TGTRANSCO website and can be accessed at the address <https://www.tgtransco.com/>.

(BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF TELANGANA LIMITED)

Sd/-  
**D.KRISHNA BHASKAR,IAS**  
**CHAIRMAN & MANAGING DIRECTOR**  
**TGTRANSCO**

**To**

The Chief Engineer/400kV/ TGTRANSCO /VS/Hyderabad

Contd..3

::3::

The Chief Engineer/Construction-I/ TGTRANSCO/VS/Hyderabad  
The Chief Engineer/Construction-II/ TGTRANSCO/VS/Hyderabad  
The Chief Engineer/LIS/ TGTRANSCO/VS/Hyderabad  
The Chief Engineer/PRLIS/ TGTRANSCO/VS/Hyderabad  
The FA&CCA(A&E) /TGTRANSCO/VS/Hyderabad

**Copy to:**

The SE(T) to the Chairman & Managing Director/ TGTRANSCO/VS/Hyderabad  
The PS to the Director / Finance, Comml. &HRD)/ TGTRANSCO/VS/Hyderabad  
The DE/T to the Director /Projects/ TGTRANSCO/ VS/ Hyderabad  
The DE/T to the Director /Grid & Transmission Management / TGTRANSCO/ VS/  
Hyderabad

//Forwarded By Order//

Superintending Engineer-II  
400kV

## PREAMBLE

### 1. The Rates for the item of works (Line & Substations) involved under special conditions for Erection works FY 2025-2026:

#### (I) TRANSMISSION LINE WORKS:

Sl. No.	Description of work	% Over the basic labour rates
1.	River Crossing with JC type towers	100% extra
2.	2 <sup>nd</sup> Circuit Stringing with 1 <sup>st</sup> Circuit in live condition.	75% extra
3.	<u>Works under shutdown:</u>  This is applicable under the following conditions only. i. Pre-programmed for interruption of line. ii. Pre-arranged replacement / rectification of line materials.	50% extra
4.	Dismantling works	75% of Normal Rate.
5.	Emergency Works such as break down works.  This will not be applicable for pre-arranged shutdown works.	100% extra
6.	Stringing of railway crossings	100% extra
7.	National and State High way crossings	25% extra
8.	Tree cutting & Jungle Clearance in Tr. Line works as the works are in scattered areas.	100% extra
9.	DC Works under shutdown	100% extra

II. SUBSTATIONS AND OTHER WORKS:

Sl. No.	Description of work	% Over the Basic labour rates
1.	<u>Works under shutdown:</u> This is applicable under the following conditions only. <ul style="list-style-type: none"> <li>i. Pre-programmed for interruption of equipment.</li> <li>ii. Pre-Programmed replacement of bus in Substation.</li> <li>iii. pre-arranged replacement / rectification of equipment.</li> </ul>	50% extra
2.	Dismantling works	75% of Normal Rate.
3.	<u>Emergency Works such as break down works.</u> <u>This will not be applicable for pre-arranged shutdown works.</u>	100% extra
4.	Idle trip (No load) rate of the low-bedded trailer for movement of Power Transformers.	50% of basic labour rate of loaded trip. Shortest distance from / to the place of availability of low bedded trailer shall be considered.
9.	DC Works under shutdown	100% extra

Note:- However if more than one special condition such as emergency, shutdown, 2<sup>nd</sup> circuit stringing with First circuit live and breakdown etc are applicable for a particular work item / situation, only one condition with maximum extra rate out of applicable special conditions can be allowed. Applying more than one special condition for any item is to be dispensed.

**2 For EHT Transmission line works, where the works are scattered in nature, some extra provisions are provided**

- a. 5% extra provision on the basic rates of TSTRANSCO towards scattered area mobilization efforts in general areas

**OR**

- b. 10% extra provision on the basic rates of TSTRANSCO towards scattered area mobilization efforts in difficult areas. The concerned SE/ Construction (or) SE/ OMC has to certify that entire line passes through difficult terrain / areas duly furnishing the justification.

**Note:-** If 10% extra toward mobilization efforts in difficult areas is applicable for a work, then the 5% extra towards mobilization effort in general areas is not applicable.

- c. Transmission line works, Uniform area allowance minimum of 25% on basic labour charges for the entire State as recommended by Board of Chief Engineers will be allowed against weighted average of area allowance mentioned in Schedule of rates except in Greater Municipal Corporation limits. If the entire line is within in the Greater Municipal Corporation limits, area allowance shall be considered as mentioned in Common SSR. This uniform area allowance is applicable only for the Transmission line erection works. However area allowance shall be considered as adopted from Common SSR, for the works other than transmission line works.

- 3(a) 10% extra to the rate of earth flat (material) is allowed towards wastage, cleats and overlap etc., while preparing the estimate. The measurement for this item will be made on Running Meters basis after laying of earth mat.

- 3(b) For stringing of conductor for small modification works, if the length of the line is less than 0.5 KM, 0.5KM is considered and if the length of the line is greater than 0.5 KM and less than 1 KM, 1KM is considered, in the preparation of estimate.

- 3(c) For survey of small length of lines, if the length of line is less than 1KM, then 1KM is considered for survey of small length of lines in the preparation of estimate.
- 3(d) The rates for tree cutting and jungle clearance may be followed as per Common SSR of Govt of Telangana.

#### **4. AREA ALLOWANCES:**

##### **A) CORPORATIONS & MUNICIPALITIES:**

- a) (i) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Telangana except Greater Hyderabad, (up to a belt of 12 Kms. from Municipal Corporation limits) and other corporations as notified by the Government from time to time.
- (ii) 40% extra over the rates on labour component of works for Greater Hyderabad, (up to a belt of 12 Kms. from Municipal Corporation limits).
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms. from Municipal limits).

##### **B) JAIL COMPOUNDS:**

15% extra is allowed over basic labour rates for the work in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no women Mazdoor are allowed inside.

##### **C) INDUSTRIAL AREA:**

20% over basic rates on labour component of works is allowed for works situated within 10km belt of Industrial area of Jeedimetla, in Medchal District, Lingampally, Tandur, Ibrahimpatnam and Kothuru in Ranga Reddy District, Patancheru, Ramachandrapur in Medak District, Bibinagar in Yadadri-Bhongiri District, Wadepally in Nalgonda District, Nagapally (Centenary Colony, Begumpet "X" roads), Takkalapally, Ramagundam and Godavarikhani in Peddapally District, Manchiryal, Mandamarri, Bellampalli

in Manchiryal District, Sarpaka, Kothagudem, Paloncha and Manguguru in Bhadravati-Kothagudem district, Singareni Collieries area limits in Khammam and Bhadravati-Kothagudem, Jayashankar-Bhooopalpally and Mulugu districts.

**D) AGENCY / TRIBAL AREAS:**

- a) 25% extra is allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located with in & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra is allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather routes inside Agency / Tribal. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.

**E) GHAT ROADS:**

For Ghat Roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned. Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 ½ times of actual length.

**Note:** If more than one area allowance (such as those) for (1) Municipalities (2) Agency / Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.

5. 11.765% on basic labour rates towards for contractor's overheads and profit including labour importation is applicable only for Turnkey projects (New substations, Lines, 33kV features & Bay extension works) of more than 1 Crore and not applicable to O&M works and other than turnkey works.

Contractor's over heads and profit including Labour importation 11.765% is allowed on basic labour rates.

The overhead charges include the following:

- Site accommodation, setting up plant, access road, water supply, electricity and general site arrangements.
  - Office furniture, equipment and communications.
  - Expenditure on:
  - Corporate office of contractor.
  - Site supervision.
  - Documentation and “as built’ drawings.
  - Mobilization / de-mobilization of resources.
  - Labour camps with minimum amenities and transportation to work sites.
  - Light vehicles for site supervision including administrative and managerial requirements.
  - Laboratory equipment and quality control including field and laboratory testing.
  - Minor T&P and survey instruments and setting outworks, including verification of line, dimensions, trial pits and bore holes, where require.
  - Watch and ward.
  - Traffic management during construction
  - Expenditure on safe guarding environment.
  - Sundries
  - Financing Expenditure.
  - Sales / Turn over tax.
  - Work Insurance / compensation.
  - AutoCAD Tower /Structure drawings of required sets.
  - AutoCAD shop drawings of Towers /Structures of required sets.
  - AutoCAD Substation layout.
  - Testing and commissioning of the equipment.
- 6.**
- (i)** The area allowances, COP’s and Mobilization charges are not applicable on Fabrication charges and Galvanization Charges.
  - (ii)** The area allowance shall be applicable for O&M and RMI works also on par with construction works.
  - (iii)** The mobilization charges shall be applicable for O&M & RMI works of lines also on par with construction works.

The area allowances are applicable for electrical works (labour), where the value of work is more than Rs.20.00 lakhs (electrical & civil). But this (TSTRANSCO SSR) is not applicable for only civil works.

**7. (a) TREE CUTTING AND CLEARING OF JUNGLE**

Please refer prevailing Common SSR of Board of Chief Engineers.

**7 (b) THE (LEAD) CONVEYANCE CHARGES FOR TRANSPORTATION OF EQUIPMENT / MATERIALS.**

Please refer prevailing Common SSR of Board of Chief Engineers.

8. In respect of 33kV rates, the Cost Data of TGSPDCL 2025-26 may be adopted, where ever is necessary.
9. All statutory levys such as GST is based on the prevailing notified rate and shall have to be added in the estimate.
10. The S.S.R will come into force with immediate effect until further orders.

**Cost Data of  
400/220/132kV Equipment/Material  
for 400/220/132kV Projects  
for the Year 2025-26.**

<b>Sl.No.</b>	<b>Annexures</b>	<b>Description</b>
1	Annexure-A	PRICES FOR SUPPLY OF SUBSTATION MATERIAL
2	Annexure-B	PRICES FOR SUPPLY OF TRANSMISSION LINE MATERIALS
3	Annexure-C	PRICES FOR TELECOM MATERIAL
4	Annexure-D	PRICES FOR ERECTION WORKS

**PRICES FOR SUPPLY OF  
400KV SUB STATION  
AND TRANSMISSION  
LINE MATERIALS**

ANNEXURE-A		
PRICES FOR SUPPLY OF SUBSTATION MATERIALS		
Sl.No.	Schedule Number	Description
1	I	PRICES FOR SUPPLY OF SWITCHYARD STRUCTURES
2	II	PRICES FOR SUPPLY OF EARTHING & EARTH MAT
3	III	PRICES FOR SUPPLY OF BUS BAR MATERIAL
4	IV	PRICES FOR SUPPLY OF POWER AND CONTROL CABLES
5	V	PRICES FOR SUPPLY OF INDOOR AND OUTDOOR ILLUMINATION
6	VI	PRICES FOR SUPPLY OF FIRE PROTECTION, DETECTION & ALARM SYSTEMS
7	VII	PRICES FOR SUPPLY OF AIR CONDITIONING AND VENTILLATION SYSTEM
8	VIII	PRICES FOR SUPPLY OF DIESEL GENERATOR SET
9	IX	PRICES FOR SUPPLY OF 33kV STATION POWER SUPPLY FACILITIES
10	X	PRICES FOR SUPPLY OF CONTROL HOUSE FURNITURE AND MONITORING SYSTEM
11	XI	a) PRICES FOR SUPPLY OF LIGHTNING ARRESTERS
12		b) PRICES FOR SUPPLY OF ISOLATORS
13		c) PRICES FOR SUPPLY OF CIRCUIT BREAKERS
14		d) PRICES FOR SUPPLY OF INSTRUMENT TRANSFORMERS
15		e) PRICES FOR SUPPLY OF AC&DC DISTRIBUTION BOARDS
16		f) PRICES FOR SUPPLY OF CONTROL & RELAY PANELS
17		g) PRICES FOR SUPPLY OF BATTERY & BATTERY CHARGERS
18	XII	PRICES FOR SUPPLY OF GIS MODULES
NOTE: FRIEGHT @ 2% ARE EXTRA.		

<b>SCHEDULE - I</b>				
<b>PRICES FOR SUPPLY OF SWITCHYARD STRUCTURES</b>				
<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
1	Fabrication, supply, galvanisation, testing before despatch, transportation to site, freight and insurance of :			
(i)	8000000712	Complete switchyard and transformer yard structural steel work, including stubs, cleats for lattice type structures for 400/220 KV substation/ switchyard i.e. towers, booms and equipment support structures for 400kV and 220 KV CTs, Lightning Masts fabricated from structural steel conforming to IS:226/2026.	XKG	As per monthly rates of Galvanised structure parts per MT for Substations and Bay Extension works issued from Monthly circulars of TGTRANSCO
(ii)	40000458	GI pipe support structure for 400 & 220 KV bus post insulators, CVT, LA, Isolator, WT, PTs including foundation bolts and nuts etc., fabricated confirming to grade Yst 210 or higher grade as per IS:806 as specified as per layout drawings.	TO	
(iii)		G.I. Bolts & Nuts, Washers and Step Bolts	TO	
(iv)	8000000980	400kV Stub templates (painted) (1 set of each type)	XKG	As per rates of steel from the Circular Memo of Engineer-in-Chief (PH) Government of Telangana, Hyd.
(v)	8000000980	220kV Stub templates (painted) (1 set of each type)	XKG	

<b>SCHEDULE - II</b>				
<b>PRICES FOR SUPPLY OF EARTHING &amp; EARTH MAT</b>				
<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
1		Design, Supply, transportation to site of complete earthing mat in the total area of 400kV and 220kV switch yards including future bays and 33kV switch yard, risers as per specification and approved drawings.		
(a)	40000065	M.S. Rod 40 mm dia. 1mt = 9.86 kgs	TO	As per Monthly Circulars TGTRANSCO Rates of MS and GI Flat per MT for Substations and Bay Extension works
(b)	40000051	G.S. flat 75 x 12 mm, 1mt= 7.1 Kgs.	TO	
(c)	40000044	G.S. flat 50 x 8 mm, 1mt=3.16 Kgs.	KG	
2	5000001150	Discharge Rod 10 feet long with suitable screw type clamp suitable for Moose Conductor & 15 mtrs long 10 sq.mm Copper lead with heavy duty crocodile clamp. (1 NO = 1 Set)	NO	11,610.00
3	3000005257	Electrical safety hand gloves suitable for the operation in 400/220kV switchyard of ISI Quality.	PAA	3,560.00
4	50000601	2 Mtr x 1 Mtr, 10mm thick Rubber mats of ISI Quality.	NO	3,650.00
5	5000000544	Stainless steel container for collecting Transformer Oil sample of capacity 2 litres with 2 nos valves and handle.	NO	1,550.00

SCHEDULE-III				
PRICES FOR SUPPLY OF BUS BAR MATERIAL				
S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
Design, Manufacture, testing at manufacturer's works, supply to site, site handling including storage of the following : Aluminium tube, Bus post insulators, Bay marshalling Boxes, insulator hardware, clamps,connectors, conductor spacers, all accessories, jumper sleeves, and all other material required to make the 400 KV,220 KV and 132kV bus bar system including cross connections,equipment interconnection system complete in all respects as per the specification and drawings as approved.				
1	4000001227	400 KV Bus Post Insulators	NO	57,210.00
2 (i) (a) & (b)	4000000055	4.5" IPS Aluminium tube of electrical grade (for 400kV & 220kV yard) including Welding sleeves	M	2,980.00
(ii)(a) & (b)	3000001736	4" IPS Aluminium tube of electrical grade including Welding sleeves	M	2,440.00
3 (i)	4000002246	Bay Marshalling Boxes for 400kV Bays with 3 mm Aluminum sheet	NO	64,560.00
3 (ii)	3000001822	Bay Marshalling kiosk for 400kV Bays with 3 mm Aluminum sheet <b>(New Item)</b>	NO	1,29,200.00
<b>4A</b>		<b>400 KV Hardware</b>		
a	4000001258	400kV Single Suspension hardware suitable for Twin Moose (Drop Type)	SET	7,510.00
b	3000001753	400kV Double Suspension hardware suitable for Quad Moose	SET	9,830.00
c	3000001755	400kV Quadraple Tension hardware suitable for Quad Moose	SET	20,960.00
d	3000001756	400kV Double Tension hardware suitable for Twin Moose	SET	14,660.00
<b>4B</b>		<b>132kV Hardware</b>		
a	3000000245	132 KV Double tension hardware suitable for Twin Moose (UoM 1 NO = 1 SET)	NO	8,150.00
b	4000000452	132 KV Single suspension hardware suitable for Twin Moose	SET	4,260.00
<b>4C</b>		<b>Earthwire Hardware (7/3.66 mm)</b>		
a	3000001974	Pad type Compressor clamp for GS Earth wire to 75 x 12 Flat	NO	105.00
b	3000001831	Cleat type clamp for G.S Earth wire	NO	103.00
c	3000000285	T clamp for GS Earth wire with flexible jumpers	NO	393.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
<b>4D</b>		<b>400 kV, 220 kV &amp; 132 kV Spacers</b>		
a	3000002015	400 KV Conductor Spacers for Quad Moose (Rigid)	NO	1,570.00
b	3000002016	400 KV Conductor Spacers for Twin Moose (Rigid)	NO	589.00
c	3000002013	220 kV Conductor spacers for Qaud Moose	NO	1,310.00
<b>5A</b>		<b>400 kV Clamps &amp; Connectors including jumper sleeves</b>		
a	3000001744	BPI Clamp for Twin moose through/expansion type	NO	1,580.00
b	4000001825	BPI Clamps for 4.5" IPS Rigid /sliding/expansion type	NO	3,100.00
c	3000001747	BPI Clamps for 4" IPS Rigid /sliding/expansion type	NO	3,020.00
d	3000001771	T Connectors SM to SM	NO	1,190.00
e	3000001772	T Connectors TM to SM	NO	2,000.00
f	4000002462	Inter connector TM to 4.5" IPS Al. Tube	NO	2,450.00
g	3000001776	Inter connector QM to 4.5" IPS Al. Tube	NO	4,890.00
h	3000001759	Inter connector TM to 4" IPS Al. Tube	NO	1,470.00
i	3000001739	Inter connector QM to 4" IPS Al. Tube	NO	5,400.00
j	3000001750	Corona spheroid	NO	907.00
<b>5B</b>		<b>220 kV Clamps &amp; connectors</b>		
a	3000001824	BPI Clamp for 4.5" IPS Rigid/sliding/expansion	NO	1,280.00
b	3000001697	BPI Clamp for 4" IPS Rigid/sliding/expansion	NO	3,020.00
d	4000003897	Corona spheroid	NO	725.00
e	3000001703	Inter connector TM to 4" IPS Al. Tube	NO	1,470.00
f	3000001102	Inter connector QM to 4.5" IPS Al. Tube	NO	2,970.00
<b>5C</b>		<b>132 kV Clamps &amp; connectors</b>		
a	3000002460	132 kV T Connector SM to Panther	NO	790.00

<b>SCHEDULE-IV</b>				
<b>PRICES FOR SUPPLY OF POWER AND CONTROL CABLES</b>				
<b>S.N o.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
1	4000003111	Single core, 630 Sq.mm, 1100 V XLPE, FRLS insulated PVC sheathed, Aluminium wire/strip armoured, stranded aluminium conductor cable.	KM	8,14,370.00
2	4000003109	Single core, 300 Sq.mm, 1100 V XLPE, FRLS insulated PVC sheathed, Aluminium wire/strip armoured, stranded aluminium conductor cable.	KM	4,65,390.00
3	4000000951	3 ½ core 300 Sq.mm, 1100 V, XLPE, FRLS insulated PVC sheathed, galvanised steel wire / strip armoured, stranded aluminium conductor cable.	KM	12,18,000.00
4		1100 V, PVC, FRLS insulated PVC sheathed, galvanised steel wire / strip armoured, stranded aluminium conductor cable.		
(a)	4000000954	3.5 Core, 70 Sq.mm.	KM	3,06,570.00
(b)	4000003893	3.5 Core, 35 Sq.mm.	KM	1,89,260.00
(c)	4000003894	4 Core, 16 Sq.mm.	KM	1,17,210.00
(d)	4000001200	4 Core, 6 Sq.mm.	KM	80,450.00
(e)	4000000526	2 Core, 6 Sq.mm.	KM	62,170.00
5		1100 V, PVC, FRLS insulated PVC sheathed, galvanised steel wire / strip armoured, stranded copper conductor cable		
(a)	4000000946	3 Core 2.5 Sq.mm.	KM	1,08,730.00
(b)	4000001398	5 Core 2.5 Sq.mm.	KM	1,71,240.00
(c)	4000003896	7 Core 2.5 Sq.mm.	KM	2,20,340.00
(d)	4000000073	10 Core 2.5 Sq.mm.	KM	2,86,870.00
(e)	4000000472	14 Core 2.5 Sq.mm.	KM	3,86,670.00
(f)	4000000502	19 Core 2.5 Sq.mm.	KM	5,08,410.00
(g)	4000000868	27 Core 2.5 Sq.mm.	KM	7,43,830.00
6	4000000051	50 Sq. mm Multistrand Flexible Copper Cable	KM	3,39,010.00
7	3000005291	Supply 56/0.30 (4.0 Sqmm) FR PVC insulated flexible Copper Cable (Single Core)	M	37.00
8		Prices for supply of Galvanized Cable Trays with 2mm thick perforated CRCA sheet.		
(1)	3000005075	200 mm Size	M	412.00
(2)	4000000879	450 mm Size	M	691.00
(3)	4000000880	600 mm Size	M	781.00

**SCHEDULE-V**

**PRICES FOR SUPPLY OF INDOOR AND OUTDOOR ILLUMINATION**

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
<b>Design of indoor and out door illumination as per specification for 400/220 KV Substation, Switchyard, Control House, Auxiliary Buildings, 33 KV Switch yard, street lighting, supply of following items as per the approved design and drawings.</b>				
(A)	<b>Indoor Lighting Fixtures.</b>			
1)		2 x 36W fluorescent lamp with fixture of mirror optics in recessed mounting type decorative fluorescent fitting consisting of white stove enameled sheet steel housing with accessories and reflector of aluminium sheet steel duly electro-chemically brightened & anodised fitted with alluminium lamellae similar to Philips Cat. No. TBS - 285 / 236 and Bajaj Cat. No. BJLM - 236 / Crompton Greaves Cat No. CRFA 24 HSB or latest cat No. ( Siemens type)		
i (a)	3000001729	Lamps 36W	NO	32.00
i (b)	3000001730	Fixtures	NO	1,010.00
ii	3000001808	LED OPTION	NO	1,620.00
iii	3000001794	Supply of 50 W LED lighting fixtures ( 2'x2') suitable to above model Bajaj / Crompton Greaves /Philips.	NO	2,760.00
2		2 x 36W fluorescent lamps in decorative lighting fixtures with wide spread mirror optics suitable for pendent mounting with twin tube complete with all accessories similar to Philips Cat. No. TCS - 31/236 / Bajaj Cat. No. BJS - 236 / Crompton Greaves Cat No. CSBW 1124 HSB makes or latest cat No. ( Siemens type)		
i (a)	3000001728	Lamps 36W	NO	32.00
i (b)	3000001723	Fixtures	NO	1,190.00
ii	3000002461	LED OPTION	NO	1,860.00
(3)		2 x 36W fluorescent lamps in Industrial reflector type fixtures complete with accessories and suitable for pendent mounting similar to Philips Cat. No. TKC - 24/236 /Bajaj Cat. No. BJIV - 236/ Crompton Greaves Cat No. 1VE 1224 HSB makes or latest cat No. ( Siemens type)		
(i) (a)	3000001727	Lamps 36W	NO	32.00
(b)	3000001725	Fixtures	NO	1,330.00
(ii)	3000002465	LED OPTION	NO	1,080.00
(4)		100W Incandescent GLS lamp in recessed black anodised bowl, reflector with provisions for lamp replacement from bottom similar to Philips Cat. No. DBD-10 / Bajaj /Crompton Greaves makes		

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
i (a)	3000001681	Lamps	NO	7.00
i (b)	3000001680	Fixtures	NO	18.00
ii	3000002469	LED OPTION	NO	756.00
(5) (i)	3000001691	1 x 11W CFL lamp Emergency light with Battery operated portable fixtures with built in chargeable batteries and battery charger suitable for a lighting period of six hours of make Bajaj/Philips/CGL/BPL.	NO	1,180.00
(ii)	3000002472	LED OPTION	NO	1,480.00
(6)		9W CFL lamp in Bulk head fixtures with cast aluminium alloy body suitable for column, wall and ceiling mounting finished stove enameled silver grey outside white inside to be supplied complete ( prisat front glass ,wire guard, tropicalised, gasket, and E.S Porcelain , lamp holder taped 3/4" E.T for conduit entry) similar to Philips Cat. No. FXC 101/ Bajaj Cat. No. BJBE - 19 / Crompton Greaves.		
i (a)	3000001801	Lamps	NO	88.00
i (b)	3000001802	Fixtures	NO	493.00
ii	3000002473	LED OPTION	NO	756.00
7 (i)	3000001857	Decorative type Lighting fixture with 4 Nos 18W CFL Lamp for Portico, Maingate etc make Bajaj/Philips or equivalent.	NO	2,060.00
(ii)	3000002480	LED OPTION	NO	2,090.00
(8)		1 x 36W florescent lamp fitting wall mounted or pendent mounted of Philips, Bajaj, CGLmake or equivalent		
i (a)	3000001054	Lamps	NO	34.00
i (b)	50000599	Fixtures	NO	340.00
ii	3000002481	LED OPTION	NO	276.00
9	5000000474	Wire less Buzzer anchor make or equivalent approved make with ISI mark.	NO	105.00
10		Following items for providing and fixing concealed inroof and walls with PVC Conduit piping of ISI standards with necessary GI wire of suitable guage to draw wires at later date including cost of junction boxes etc.cost and conveyance of all materials		
(i)	50000058	40 mm dia - 2mm thick	M	76.00
(ii)	50000013	32mm dia - 2mm thick	M	76.00
(iii)	50000011	25mm dia - 2mm thick	M	56.00
(iv)	50000008	12mm dia - 1.5mm thick	M	43.00
11	3000003087	Indoor Modular Main distribution board suitable for wall insert with 1No 63A TP MCB for I/C and 6 Nos 32A SPMCB , 8 Nos 10 A SPMCB & 10 Nos 16A SPMCB with neutral link for O/G complete make Havells /LEGRAND or MDS or equivalent.	NO	8,650.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
B		<b>Out Door and street Lighting Fixtures</b>		
1 (a)	3000001895	Flood Light fixtures for 2 Nos 400 W Sodium Vapour lamps similar to Bajaj Cat. No. BJENF- 22 / Crompton Greaves / Philips	NO	8,330.00
1 (a) i	3000005125	400 W Ballast	NO	1,500.00
1 (a)ii	3000002485	LED OPTION	NO	13,440.00
1 (b)	3000001780	400W Sodium Vapour lamps for the above.	NO	400.00
c	3000001630	Supply of 128W LED street lighting fixtures suitable for above 400W Sodium vapour lamp model (Bajaj/Crompton Greaves)	NO	3,000.00
2 (a)	3000002022	Street lighting fixtures suitable for 150W Sodium Vapour lamp similar to Philips Cat. No.SRP-51 and Bajaj Cat. No. BJMSC/150 / Crompton Greaves Cat. No. SSG 1515 H.	NO	3,630.00
2 (a) i	50000088	150 W Ballast	NO	660.00
2 (a)ii	3000002488	LED OPTION	NO	2,760.00
2 (b)	50000600	150W Sodium Vapour lamp for the above.	NO	551.00
2 (c)	3000001800	Supply of 90 W LED street lighting fixtures suitable to above model Bajaj / Crompton Greaves /Philips.	NO	7,640.00
3 (a)	3000002023	Street lighting fixtures suitable for 250W Sodium Vapour lamp similar to Bajaj Cat. No. BJEFT - 14CA/ Crompton Greaves/ Philips	NO	4,170.00
3 (a) i	3000001719	250 W Ballast	NO	990.00
3(a)ii	3000002497	LED OPTION	NO	3,000.00
3 (b)	50000622	250W Sodium Vapour lamp for the above	NO	643.00
3(c)	3000000241	LED OPTION	NO	7,010.00
4 (i)	3000002043	Weather proof fixture for 125W MV Lamp post top lantern with case aluminium canopy, mounting piece, opal acrylic cover tropicated gasket and all other accessories for mounting on pole top of type E1.	NO	6,430.00
(ii)	3000002500	LED OPTION	NO	5,160.00

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
4(a)	50000081	125W Mercury Vapour Lamps for the above fixture.	NO	568.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
5		Lighting Masts / Poles with junction boxes, earthing materials and all accessories as per drawing enclosed.		
(a)	3000001949	Type A1 with junction box	NO	11,900.00
(b)	3000001950	Type E1 with junction box	NO	9,730.00
6 (i)	3000004951	Outdoor AC Lighting Panels , I/C 63A TPN SFU with suitable copper busbar Outgoing 32A SP MCB - 15 Nos with timer arrangement.	NO	15,140.00
(ii)	3000001805	AC Emergency Panel - I/C 32A TPN SFU & O/G 16 A SP MCB - 4 Nos. (Indoor)	NO	25,230.00
7	3000000119	220V DC Emergency Lighting Panels (Indoor) I/C 32A DP SFU - 1 No. O/G10A BP MCB - 4 Nos.	NO	18,020.00
8	3000001945	Lighting Panels for Control house I/C 63A TPN SFU - 1 No O/G 16A-32A SPMCB - 24 Nos.	NO	13,340.00
9	3000001937	Outdoor Junction Box with 16A-SP-MCB-2 Nos,10A-SP-MCB-4 Nos & terminal blocks (bolt type) for 6 circuits and neutral link	NO	2,520.00
10	3000001783	415V, 63A - Interlocked Switch and Socket outdoor Power Recepticle	NO	3,320.00
11	3000001855	Decorative Type Six panel Switch boards with 5A switches - 5 Nos., 5&15A plug-2 No with 2 No 15 A Switch. (Anchor/Havels)	NO	1,080.00
12	3000001856	Decorative TypeTen panel Switch boards with 5A switches - 7 Nos., 5&15A plug-3 No with 3 No 15 A Switch. (Anchor/Havels)	NO	1,250.00
13	3000001860	Decorative Type Three panel Switch boards with 5A switches - 3 Nos., 5A plug-1 No (Anchor/Havels)	NO	529.00
14	3000001861	Decorative Type Three panel Switch boards with 15A switches - 2 Nos., 15A plug-2 No (Anchor/Havels)	NO	614.00
15		Telephone Junction Boxes		
(a)	3000000476	MDF box suitable for 50 pair Telephones with crones and surge protection complete	NO	1,800.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
(b)	3000000477	MDF box suitable for 10 pair Telephones with crones and surge protection complete	NO	865.00
(c)	3000001563	Single socket outlet comprising RJ-45 Socket	NO	181.00
(d)	3000001564	Dual socket outlet comprising RJ-45 Socket	NO	324.00
16	3000001684	1400 mm sweep ceiling fans with Electronic regulator CGL/Bajaj/Usha/Khaitan make/orient/Havells	NO	1,080.00
17	50000597	Wall mounted Fans with 400 mm sweep with Electronic regulator CGL/Bajaj/Usha/Khaitan make/orient/Havells	NO	2,250.00
18	3000001973	Oscillating air circulator (Pedastal Fan) Telescopically adjustable stand, with electronic regulator with 600 mm sweep CGL/Bajaj/Usha/Khaitan make/orient/Havells	NO	3,310.00
19	3000002505	Out door AC Distribution Board with 2 Nos Incomings, 3 Phase, 440 V, 300 Amps, with Cu Bar and 300 Amps Fuse units & Nuetral link complete and outgoing 2 Nos , 3P, 125 A, MCBs including all accessories.	NO	32,440.00
20	5000001483	Wheel Mounted ladders (10 mtrs Height)	NO	20,940.00
21	5000000839	Aluminium ladders (12ft Height)	NO	10,740.00
22	5000000855	Telescopic aluminium ladder (18feet)	NO	37,650.00
23	5000000840	Aluminium ladders (8ft Height)	NO	8,340.00
<b>24</b>		<b>Self Supporting Extension Ladder (Double Section)</b>		
i	5000000053	8x14 feet	NO	6,330.00
ii	5000000057	10x18 feet	NO	7,990.00
iii	5000000079	16x29 feet	NO	12,240.00
iv	5000000318	18 feet	NO	13,500.00
<b>25</b>		<b>Trolley wheeled ladder (double section)</b>		
i	5000000218	10ft X 18 ft	NO	16,640.00
ii	5000000221	12ft X 22 ft	NO	19,030.00
iii	5000000225	16ft X 29 ft	NO	26,930.00
iv	5000000237	18ft X 32 ft	NO	31,640.00

**SCHEDULE-VI**

**PRICES FOR SUPPLY OF FIRE PROTECTION, DETECTION & ALARM SYSTEM**

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
		Design of Fire fighting system and supply of the following items		
1	3000001866	(a) Horizontal centrifugal Electric Driven Hydrant/HVW Spray, pump of capacity 410M3/hr and total dynamic head of 88MWC with all accessories & fittings - 1 No. (b) Electric Induction Motor Squirrel cage type for the above with all accessories & fittings as per specifications - 1 No. (UoM 1 NO = 1 SET)	NO	7,80,840.00
2	3000001862	(a) Horizontal centrifugal Diesel Engine Driven Hydrant/HVW spray pump of capacity 410M3/hr and total dynamic head of 88MWC with all accessories and fittings. Both the HVW pumps, one motor driven and one diesel driven shall be of same model and their components interchangeable - 1 No. (b) Diesel Engine, multi cylinder type, four stroke cycle with mechanical airless injection cold starting type for the above with all accessories and fittings as per specification - 1 No. (c) Set of Batteries - 2 Nos. (d) Fuel tank having capacity to hold fuel oil for six hours of full load run - 1 No. (UoM 1 NO = 1 SET)	NO	9,62,680.00
3	3000001967	(a) Horizontal centrifugal Electric Driven jockey pump of capacity 10.8 m3/hr and Total dynamic head of 88MWC with all accessories and fittings. (b) Electric Motor for the above with all accessories and fittings as per specification.-	NO	2,36,850.00
4	3000001809	Air vessels with vent valves etc. as per specification and system requirement	NO	3,57,100.00
5	3000002025	Sump pumps of capacity 10M3 /hr MWC with motor starter and all accessories	NO	39,970.00
6	3000005260	Basket strainer 300 NB (UoM 1 NO = 1 SET)	NO	1,25,250.00
7	3000001843	Control panel equipped with all accessories for motor drives of Fire water pumps and 2 Nos. jockey pumps as per specifications suitable for 2 sources supply and 2 Nos. Battery chargers (UoM 1 NO = 1 SET)	NO	2,05,220.00
8	4000003909	Control Panel for Diesel Engine driven fire water pumps as per specification (UoM 1 NO = 1 SET)	NO	1,97,460.00
9 (a)	4000003908	Annunciation panel at fire water pump house as per specification. (UoM 1 NO = 1 SET)	NO	1,88,490.00
(b)	3000001818	Annunciation panel in Control Room as per specification (UoM 1 NO = 1 SET)	NO	1,42,740.00
(c)	4000000856	DC-DC CONVERTORS (220V-48V,10A) reputed make only (UoM 1 NO = 1 SET)	NO	25,600.00
(d)	4000000858	DC-DC CONVERTORS (220V-24V,10A) reputed make only (UoM 1 NO = 1 SET)	NO	35,600.00

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
10		Supply of the following Hydrant and HVWS system Accessories		
a	3000002011	Single headed Hydrants	NO	11,360.00
b	3000001942	Landing Valves	NO	4,910.00
c	3000001918	Hose cabinets.	NO	5,680.00
d	3000001919	Hoses of 15.0m length with coupling	NO	4,800.00
e	3000001920	Hoses of 7.5m length with coupling	NO	3,660.00
f	50000604	Branch pipe with Nozzles.	NO	3,200.00
g	50000014	Hume Pipe 300mm Dia (UoM - RM)	M	1,880.00
11		Supply of the following Mild steel black pipes and Mild steel galvanized pipes as per specification		
a	50000610	300 NB	M	4,130.00
b	50000608	250 NB	M	3,530.00
c	50000607	200NB	M	2,620.00
d	50000602	150NB	M	2,400.00
e	50000605	100NB	M	2,020.00
f	50000611	80NB	M	1,400.00
g	50000603	50NB	M	1,100.00
h	50000609	25NB	M	255.00
i	50000606	15NB	M	179.00
12	3000002007	Set of GI & MS Piping beyond deluge valves for transformer including detection piping and pipe supports including all accessories complete.	SET	2,57,730.00
13		Supply of the following valves :-		
a	3000005253	300 NB Gate	NO	37,750.00
b	3000005251	250 NB Gate	NO	36,730.00
c	3000001718	250 NB Check	NO	23,470.00
d	3000005250	200 NB Gate	NO	29,590.00
e	3000005256	150 NB Gate	NO	16,330.00
f	3000005248	100 NB Gate	NO	15,950.00
g	3000005255	80 NB Gate	NO	13,000.00
h	3000005238	80 NB Check	NO	10,700.00
i	3000005254	50 NB Gate	NO	7,450.00

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
j	3000001793	50 NB Check	NO	4,590.00
k	3000005252	25 NB Gate	NO	2,550.00
l	3000005249	15 NB Gate	NO	1,940.00
m	3000005262	Float operated valve 100NB	NO	23,470.00
14 (a)	3000001893	Float operated Level guage	NO	18,950.00
14 (b)	3000001944	Level switch	NO	19,830.00
15	3000001982	Pressure Gauge	NO	2,250.00
16	3000001983	Pressure Switch	NO	6,420.00
17	3000001863	Differential Pressure Gauge	NO	4,120.00
18	3000005243	Deluge valve with motor gounge, pr. switch, pr.guage, solenoid valve to drain - size 150 NB (UoM 1 NO = 1 SET)	NO	1,27,540.00
19	3000001951	Local control panel for Deluge valve	NO	12,940.00
20	3000005261	Strainer Y type, 150 NB	NO	33,820.00
21	3000001994	Quartzoid bulb detectors	NO	556.00
22	3000001923	HVW spray nozzles	NO	1,350.00
23		Supply of Detection and Alarm system including all hardware and all other accessories		
(a)	3000001970	Multi criteria detectors	NO	3,050.00
(b)	3000001911	Heat detector	NO	2,590.00
(c)	3000001998	Response indicator	NO	345.00
(d)	3000001962	Manual call point	NO	2,170.00
(e)	4000003910	(i) Fire detection & Alarm panel for control room with 2 Nos hooters, 2 Nos. sirens and 2 Nos. relay modules with RS-485 communication port & all accessories for integrating in SAS. (UoM 1 NO = 1 SET)	NO	1,51,220.00
	4000001050	(ii) Two Zone conventional Fire Alaram panel with Battery and Battery Chargers (with one Zone spare) in AC Kiosk	NO	38,500.00
(f)	3000004963	Water pressure transducer with input of 0-16 bars and with 2nos ports as output of range 4-20mA for integrating in SAS.	NO	83,450.00

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
(g)	3000004967	Temperature transducer for measuring ambient temperature with input of 0-75 degree centigrade and with 2nos ports as output of range 4-20mA for integrating in SAS.	NO	56,860.00
24		Supply of the following Portable Fire Extinguishers with all accessories as per specification		
(a)	50000092	Dry chemical powder type Fire extinguishers of 9 kgs. Capacity	NO	2,750.00
(b)	3000001891	Dry chemical powder type Fire extinguishers of 10 kgs. Capacity	NO	3,760.00
(c)	3000001889	Dry chemical powder type Fire extinguishers of 25 kgs. Capacity (trolley mounted)	NO	11,780.00
(d)	3000001890	Dry chemical powder type Fire extinguishers of 50 kgs. Capacity (trolley mounted)	NO	15,820.00
(e)	3000001888	Dry chemical powder type Fire extinguishers of 150 kgs. Capacity (trolley mounted)	NO	51,880.00
(f)	3000001837	CO2 type portable Fire extinguishers of 45 kgs. Capacity (trolley mounted)	NO	36,220.00
(g)	3000001836	CO2 type portable Fire extinguishers of 22.5 kgs. Capacity (trolley mounted)	NO	16,780.00
(h)	3000001838	CO2 type portable Fire extinguishers of 9 kgs. Capacity (trolley mounted)	NO	9,180.00
(i)	3000001839	CO2 type portable Fire extinguishers of 2 kgs. Capacity	NO	1,220.00
(j)	3000001963	9 liters capacity Mechanical foam type fire extinguishers	NO	2,340.00
(k)	3000002003	Sand / water Buckets 9 liters capacity with stand	NO	472.00
25		Mandatory spares		
(a)	3000001906	Gland packing of HVW Pumps	NO	8,380.00
(b)	3000002509	Self starter of HVW Pumps	NO	55,660.00
(c)	3000001900	Fuel oil filter elements of Diesel engine drive	NO	12,600.00
(d)	3000001952	Lubricating oil filter elements of Diesel engine drive	NO	13,290.00
(e)	3000001907	Gland packing of jockey pumps	NO	6,410.00

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
(f)	3000000467	Quartzoid bulb detector	NO	555.00
(g)	3000001989	Projectors (Nozzles)	NO	1,350.00
(h)		Multi criterial detectors	NO	13,290.00
(i)		Heat detectors	NO	2,810.00
(j)	3000000469	Pressure switch	NO	7,280.00
(k)	3000005244	Flaps for check valves 250NB	NO	14,010.00
(l)	3000005246	Flaps for check valves 80NB	NO	5,300.00
(m)	3000005245	Flaps for check valves 50NB	NO	6,840.00
(n)	3000001480	Set of bearings for HVW pumps	SET	11,730.00
(o)	3000001481	Set of bearings for Jockey pumps	SET	7,290.00
(p)	3000000470	Pressure Gauge	NO	2,910.00
26	3000000240	1 No. Battery pulse 24V 80AH for fire fighting system	NO	34,480.00
27	5000000267	Regulated DC Variable Power Supply Source - Dual Output 220V/10A-20A	NO	48,500.00

SCHEDULE-VII					
PRICES FOR SUPPLY OF AIR CONDITIONING AND VENTILLATION SYSTEM					
S.N o.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight	
A	<b>Air Conditioning.</b>				
1	3000002042	Supply of all wall mounted Split air conditioners 2.0 Ton capacity with cooling capacity of 24000 BTU/Hr & 6000 K.Cal/Hr with stabilisers, receptacles including all support structures and all other accessories with MCB of 25A, 5 star model	NO	56,690.00	
2	3000002372	Distribution board with 1No., 63A TP MCB for I/C and 15 Nos 16A SP MCB with terminal block arrangement complete make Havells or Schiender MDS or equivalent.	NO	11,220.00	
3	3000001856	Decorative Type Ten panel Switch boards in AC Kiosks with 5A switches - 5/ 7 Nos.& 5/15A plug-1 No with 1 No 15 A Switch.(Anchor/Havels)	NO	1,250.00	
4	3000001839	CO2 type portable Fire extinguishers of 2 kgs. Capacity for AC Kiosks Wall mounted	NO	1,220.00	
5	3000001970	Multi criteria Fire/Smoke/Heat detectors	NO	3,050.00	
6	3000001811	Under deck insulation for the roof exposed to sunlight with 50 mm thick TF quality expanded poly steyrene including GI washers and wire for fixing.	FT2	68.00	
7	3000004959	AC Distribution Boards Mains for usage in AC Kiosks for supply (indoor wall inserted) with 3P 32A MCB-1No,SP 20A MCBs-3No's,SP 16A MCBS - 1 Nos.,10AMCB—1No, 6A SP MCBS-2Nos., 2A SP MCBS –3 Nos.	NO	20,790.00	
8	4000000262	Fire Alarm Panel for the above detectors with 24V (12+12) Batteries for supply to be installed in AC Kiosk	NO	4,800.00	
B	<b>Ventillation</b>				
1		Supply of exhaust fans of propeller type/ axial type, each with a suitable drive motors, DOL starters, vain protection with screen, grouting bolts etc.,			
a)	3000001877	3ph, 24" Sweep 1440 RPM, 3000 cum/hr, exhaust fan or equivalent	NO	5,600.00	
b)	3000001876	3ph, 18" Sweep 1440 RPM, 2000 cum/hr, exhaust fan or equivalent	NO	5,200.00	
c)	3000001878	3ph, 12" Sweep 1440 RPM, 500 cum/hr, exhaust fan or equivalent	NO	4,110.00	

SCHEDULE-VIII				
PRICES FOR SUPPLY OF DIESEL GENERATOR SET				
S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
I	4000000862	<p>DG Set 250 KVA (with acoustic insulation), 1500 RPM, 0.8 PF, 415 V, 3 phase, 50 Hz with the following :-</p> <p>(1) Diesel Engine complete with all accessories as specified.</p> <p>(2) Alternator directly coupled to the engine through coupling complete with all accessories.</p> <p>(3) Automatic voltage Regulator.</p> <p>(4) Complete starting arrangement including two Nos. Batteries &amp; chargers and Power and Control Cables and cable glands and lugs etc.</p> <p>(5) Base Frame and Foundation bolts.</p> <p>(6) Day Tank of 990 litre capacity with all the accessories and fittings.</p> <p>(7) Oil pump for transferring to Day Tank as per specification.</p> <p>(8) Engine cooling and Lubricating system.</p> <p>(9) Engine Air filtering System.</p> <p>(10) Exhaust silencer package with flexible coupling and thermal Insulator.</p> <p>(11) Set of GI Pipes, Valves, Strainers, unloading hose pipes as required.</p> <p>(12) All lubricants, diesel oil, consumables, touch up paints etc, for the first filling, testing &amp; commissioning at site.</p> <p>(13) AMF panel for Control &amp; Metering, and alarm as per specification including all power and control cables, with cable glands &amp; lugs etc suitable to Substation Automation System.</p>	set	19,42,000.00
II		Mandatory spares of DG Set:		
(a)	3000000715	Current Transformers	NO	4,170.00
(b)	3000002232	Measuring Instruments, micro controller on AMF panel	SET	10,000.00
(c) (i)	3000000716	Protection Relays	NO	2,000.00
(c) (ii)	3000000718	Timer for Protection Relays	NO	500.00
(d)	3000000719	Indicating Lamps with Resistors	NO	375.00
(e)	3000002335	Oil Filter packs	SET	1,000.00
(f)	3000000720	Fuses	NO	125.00
(g)	3000002365	Diesel filter packs	SET	10,000.00
(h)	3000000712	V - belt for radiator fan	NO	5,000.00
(i)	3000002333	Diodes & Diode fuses	SET	2,000.00

SCHEDULE - IX				
PRICES FOR SUPPLY OF 33kV STATION POWER SUPPLY FACILITIES				
S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
<b>A</b>		<b>33kV Substation Material:</b>		
1	4000003862	33kV/433V, 630 KVA Station supply transformers with all accessories and fittings as per specification	NO	23,72,170.00
2	4000001160	33kV VCB with control panel and all accessories complete integrated to the Sub-Station automation System.	NO	4,52,180.00
3	4000000078	100 Sqmm AAA/ DOG conductor for Bus and jumpers	KM	85,000.00
4	4000000935	3 Phase 0.2s accuracy HT Trivector Meter suitable terminal box for CT and PT secondary connections.	NO	6,230.00
5	3000002512	HT Tri-vector meter box	NO	4,660.00
6	3000005247	33 KV HG Fuse sets with Insulators (UoM 1 NO = 1 SET)	NO	7,590.00
7	40000198	175 x 85 mm RS Joists, MS channels & Misc Structural Steel for 33KV Switchyard CT's, LA's, PT's, CB's, Isolators & HG Fuse sets.	TO	58,500.00
8	40000106	Hard ware, Clamps, connectors, galvanised bolts, nuts and washers and other miscellanius items required for complete erection and commissioning of 33 KV /433V facilities as per the specification. (UoM 1 NO = LS / 1 SET)	NO	1,16,100.00
9	4000000236	33 kV CTs 25-15/1-1A and terminal connectors and all accessories as per specification	NO	22,500.00
10	4000001025	33 kV Potential Transformer ratio 33kV/110V and terminal connectors.	NO	18,680.00
11	4000001152	<b>New Item:</b> 33kV Twin Feeder Control & Relay Panel (without Automation)	NO	4,95,250.00
12	4000000125	33kV control panel with BCU suitable for Twin feeder with integrated to the Substation Automation System (UoM 1 NO = 1 SET)	NO	11,20,000.00
<b>B</b>		<b>Mandatory Spares for 33 kV/ 433V Station power supply Transformer.</b>		
1	3000002566	Bushings with metal parts set for each rating ( HV-1 & LV-1 No.)	SET	18,240.00
2	3000002451	Silica Gel Breather including Silica Gel (UoM 1 NO = 1 SET)	NO	3,550.00
3	3000000242	Bucholz Relay	NO	10,000.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
		<b>Supply of 33kV Sub station power supply facilities from 315/500MVA PTR Tertiary winding</b>		
1	4000000241	72.5kV Circuit Breaker with control panel and all accessories complete integrated to the SAS (UoM 1 NO = 1 SET)	NO	4,89,690.00
2	4000000986	72.5kV, 800amps Isolators with terminal connectors including support insulators complete (UoM 1 NO = 1 SET)	NO	1,10,360.00
3	4000000248	72.5kV CTs, 25-10/1-1-1A with junction box and terminal connectors	NO	1,03,210.00
4	4000000257	72.5kV PT ratio (33kV/ $\sqrt{3}$ (110-110/ $\sqrt{3}$ ) with junction box and terminal connectors	NO	1,03,210.00
5	40000457	150x75mm MS channels & Misc structural steel for CTs,PTs and Isolator	TO	As per monthly circulars of CE/Construction
6	4000000302	33kV/415V, 630 KVA Station supply transformers with all accessories and fittings as per specifications (bushing BIS 250KV Peak) (52 kV Bushing) (OR) 52kV/433V, 630 KVA Station supply transformers with all accessories and fittings as per specifications	NO	34,10,110.00
7	3000003747	33kV 3x400 Heat shrinkable dead end termination kit (1 SET = 3 NO. OF SINGLE PHASE)	SET	2,340.00
8	3000001704	33kV, 3C x 400 Sq.mm XLPE UG Cable Straight through heat shrinkable jointing kits	NO	23,670.00
9	4000000006	33kV Polymer Pin Insulators with GI pins	NO	335.00
10	4000000230	42 kV Lightning Arresters	NO	14,500.00

**SCHEDULE - X**

**PRICES FOR SUPPLY OF CONTROL HOUSE FURNITURE AND MONITORING SYSTEM**

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
<b>A</b>		<b>FURNITURE</b>		
1	4000003477	Tables (Model EARL Size 200 W x 1900 D x 750H mm).	NO	33,550.00
2	4000001022	Credenzas for above ( Model : EARL Size 2100 W x 350D x 1520H) with revolving chair.	NO	27,750.00
3	4000003077	Self Containing 12 Nos Racks with safety locker	SET	16,560.00
4	4000002474	Junior Executive table ( 1365 x 680 x 7350) mm with decolam Model No.T-9	NO	8,980.00
5	4000003354	Steel Table (1199 x 590 x 735) mm with single drawer and Decolam Top Model. T-111	NO	5,400.00
6	4000003346	Steel revolving chair model No. CH - 1014 with heavy base seat and back in cane	NO	5,180.00
7	4000003348	Steel Tubular S Type chair (Continuous Arm) Model No. Chr-7 in 1" dia and 14 gauge pipe, cane seat and back in teak wood with quality cane	NO	2,440.00
8	4000003060	Steel Tubular 'S' Type chair (without arm) Model No. Chr-4 in 1" dia and 14 SWG pipe, cane seat and back in teak wood with quality cane	NO	2,120.00
9	4000003362	Steel store well plain (900 x 507 x 1950) mm Model : Slimline 4S Tex purple colour.	NO	7,440.00
10	2000000048	Plastic file trays ( 16" x 11" x 3" )	NO	266.00
11	4000003351	Steel Stools (15"x15"x18") with MS top sheet thickness 20 mm 1" square pipe 16 gauge	NO	1,740.00
12	4000003358	Steel waste paper baskets (12"x10"x10")	NO	393.00
13	4000002259	Steel rack (6'x3'x16") with 6 shelves making 5 compartments (22 Gauge)	NO	4,360.00
14	4000003087	Short bench (4'x14"x1/2') with laminated Top.	NO	3,960.00
15	4000001026	Furniture consisting of a table and revolving chair for PC and a table for printer	NO	7,110.00
<b>B</b>		<b>Display Board for Substation Layout</b>		
1 a)	7000000280	6' x 5' Plywood Novapan finish with suitable border and computerised symbols, labels etc of single line diagram as directed by Site Engineer complete suitable for Wall/Floor stand mounted.	NO	4,690.00
b)	5000001380	Aluminium Floor stand for the above	NO	8,650.00
2	5000000809	3' x 2' Wooden key board suitable for holding 30 Nos Key chains	NO	1,080.00
3 a)		Supply and fixing of computerised radium stickering name plates of size (200x40x4mm) on panels in complete shape.	NO	271.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
b)		Lettering on all panels in switchyard, control room, DG and FF building with Yellow color as back ground and letters in	NO	65.00
c)		Painting with red, yellow, Blue colors on auxiliary equipment pipe/lattice support structures for color	NO	50.00
4 a)	7000000043	Brother P-Touch Sticker lable printer with Software and all accessories (Model PT-2700) / Latest Model.	NO	14,590.00
b)		Sticker lables, printer cartridges suitable for (Brother P make) Touch sticker Lables, Printer		
1	2000000103	24 mm size	NO	396.00
2	2000000102	18 mm size	NO	325.00
3	2000000101	12 mm size	NO	252.00
5 a)	2000000142	Supply and fixing of teak wood name boards with enamel painting letters of size 12"x4" for rooms in control room.	NO	3,170.00
b	50000290	Supply and fixing of Bay Indicator boards of thickness 18" with MS sheet and MS angles of size 10"x26" including cost of letters.	NO	1,590.00
c	2000000146	'Supply and fixing of name board indicating 400/220kV SS, TSTRANSCO, of size 4x8 feet with MS 18gauge sheet MS 1.5"angles.1.5"pipes and concreting foundation including cost of painting letters (1no. In English & 1no. In Telugu)	NO	19,630.00
6	2000000681	Supply and fixing of notice board of size 2x2.5feet	NO	668.00
7	50000291	Pictograph of size 2x4 feet with letters	NO	5,430.00
8	5000000441	Binoculars Night vision (latest version)	NO	3,600.00
C		<b>Personal computer (with the following configuration)</b>		
1, (i) a)	7000000077	Intel core i-7-3920XM Process 512KB level-8M cache upto 3.80 GHz, 4GB RAM , 128bit graphic accelerator with 4MB SG RAM,160GB Ultra DMA-HDD,1.44MB FDD,52X Creative DVD-ROM,1x16550 fast serial ports & IEPP ECP parallel ports , 4X, universal serial bus (USB) ports, PS/2 compatible key board/ouse ports, 19" colour monotor,Internet ready multimedia key board,Optical scroll mouse and built in modem 128KBPS along with telephone instrument & other accessories and complete installation of the system, DVD writer with latest software.	NO	1,04,560.00
b)		10/100 MBPS Ethernet Card	NO	
c)		Windows-11 or later version of OS (64 bit) and latest MS OFFICE software - preloaded along with Media & Manuals, Power management software, ACPI and windows 11 / Latest.	NO	
d)		Latest updated versions of Anti virus software kit - Norton, macfee, hill view etc alongwith Media & Manuals	NO	
(ii)	2000000004	Pen drives of 32 GB/ Hard disc	NO	400.00
2	7000000146	HP Laser Jet Pro M1536dnf Multi function printer along with 2 spare catridges	NO	30,590.00
3	7000000181	HP laser jet printer 1020 series with spare cartridge	NO	10,750.00
4	7000000174	2.5 kVA inverter (input 220V DC, output 220V AC)	NO	34,820.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
5	7000000133	Laptop of latest version Intel core i-7-3920XM Processor @3.8GHz cache or more, 512KB level, 4GB RAM upgradeable to 1GB bit graphic accelerator with 4MB SGRAM,320GB Ultra DMA-HDD,1.44MB FDD,52X Creative DVD-ROM,1x16550 fast serial ports & IEPP ECP parallel ports , 4X, universal serial bus (USB) ports, PS/2 compatible key board/mouse ports, Internet ready built in modem 128KBPS along with other accessories with latest version of windows software,ms office,anti virus softwre and multimedia and manuals , etc..	NO	73,660.00
D 1	2000000085	Xerox machine Canon iR Advance C3520 with Duplex & DADF, Colour Digital Copier, Network Printer & Scanner (A3 Size, Office Colour) Digital Copier Network Printing Color and B/W Scanning Speed: 20 PPM Color and Black & White Motion Sensor Support 10.1" Intuitive Touch Screen 3 GB RAM, 250GB HDD, Dual processor Duplex and DADF Paper trays 2 x 550 sheets and bypass 100 sheets PDL: UFR II, Ethernet: 10/100/1000 Base T User wise Color restriction Wireless LAN (IEEE 802.11 b/g/n) Direct Print from USB (PDF/XPS) , Color Universal Send Access Management System Advanced Box and Mailbox Recommended Volume per month 16666 copy/Print 01	NO	1,05,720.00
E 1	5000001484	Water -Purifier (Make w-Purifier RO+/Latest model) (Aquaguard (Model: Superb)	NO	12,710.00

**SCHEDULE - XI.A**

**PRICES FOR SUPPLY OF LIGHTNING ARRESTERS**

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
1	4000000876	400kV Lightning Arresters ( 63 KA )	NO	1,55,450.00

**SCHEDULE - XI.B**

**PRICES FOR SUPPLY OF ISOLATORS**

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
I**		420 KV 3 pole out door type horizontal centre break Isolators 3 phases 50 c/s of 3150 Amps and fault level of 63 KA per second A.C. Motor operated with all accessories, auxiliaries operating mechanism boxes, Terminal Connectors other essentials as specified.		
a		with single earth switch		
	4000000386	(i) Metallics (UoM 1 NO = 1SET)	NO	9,70,500.00
b		With double earth switch		
	4000000389	(i) Metallics (UoM 1 NO = 1SET)	NO	12,56,000.00
II**		245kV 3 pole out door type Horizontal Double Break Isolators 3 phases 50 c/s of and fault level of 50kA per second A.C. Motor operated with all accessories, auxiliaries operating mechanism boxes, Terminal connectors other essentials complete as specified - Metallics		
a)	4000000826	245kV 1600A Isolator with Double earth switch - Metallics (UoM 1 NO = 1SET)	NO	5,73,090.00
III**		145kV 3 pole out door type Horizontal Double Break Isolators 3 phases 50 c/s of 1600 Amps and fault level of 40 KA per second A.C. Motor operated with all accessories, auxiliaries operating mechanism boxes, Terminal connectors other essentials complete as specified - Metallics		
a)	4000001038	145kV Isolator with Double earth switch (UoM 1 NO = 1SET)	NO	4,46,450.00
		** In view of deletion of Manadatory spares item, it is proposed to procure 1 set Isolator as spare in addition to the required Tender quantity.		

SCHEDULE - XI.C					
PRICES FOR SUPPLY OF BREAKERS					
S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight	
I	4000000394	420 kV 3 pole SF6 Gas filled out door circuit breakers <b>without closing resistors</b> of 3 phases 50 c/s of 3150 Amps and fault level of <b>63 KA</b> for one second either spring charged motor operated or pneumatically operated with all accessories, auxiliaries including terminal connectors and operating mechanism boxes and first fill of SF6 Gas with additional 10% gas and others as specified including Support structures complete as specified for the 420 kV Circuit Breakers. (ladder on both sides of CB) (UoM 1 NO = 1SET)	NO	41,75,050.00	
II	4000000390	420 kV 3 pole SF6 Gas filled out door circuit breakers <b>with closing resistors</b> of 3 phases 50 c/s of 3150 Amps and fault level of <b>63 KA</b> for one second either spring charged motor operated or pneumatically operated with all accessories, auxiliaries including terminal connectors and operating mechanism boxes and first fill of SF6 Gas with additional 10% gas and others as specified including Support structures complete as specified for the 420 kV Circuit Breakers. (ladder on both sides of CB) (UoM 1 NO = 1SET)	NO	44,36,590.00	
III A		<b>420kV CB Mandatory Spares.</b>			
1	3000000491	One pole of Circuit Breaker with grading Capacitor (if applicable)complete with pole column and interrupter with M.B but without support structure and operating mechanism	NO	8,85,460.00	
2	50000244	SF6 Gas @ 40% of Circuit Breaker (UoM - KG means 40% quantity of Total Circuit Breaker SF6 Gas - LS)	KG	24,940.00	
3	3000000378	Trip coils with resistor	NO	3,740.00	
4	3000002846	Closing coils with resistor	NO	1,560.00	
5	3000002035	Terminal pad & connectors including corona rings	NO	2,810.00	
6	3000003234	Molecular filter	NO	3,430.00	
7	3000004021	Density / Pressure monitoring system	NO	21,820.00	
8	3000001929	Relays, Power contactors, switch fuse units, limit switches, push buttons, timers & MCB etc.(one for each item for control cubicle)	SET	21,820.00	
9	50000175	Aux. Switch assembly, Cirlclips (UoM 1 NO = 1SET)	NO	3,430.00	
10	3000003024	Operation counter	NO	2,810.00	

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
11	3000000492	Magnetic Ventile (if applicable)	NO	43,650.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
III A (i)		Spring operating mechanism (if applicable)		
	3000000493	a) Complete spring operated mechanism. (1 SET) b) Ratchet spanners (big size) reputed make, cutting plier, nose plier, circlip pliers (straingt, bent) : L keys set, 5-32 mm ring, flat spanners (taparia make) : nut drivers, screw drivers set, table wise hammer digital multi meter, if any special tools required for CB (1 SET) c) 4-20 mA of SF6 gas Transducers with PS and accessories (2 SETs) (UoM 1 NO = 1 SET of (a) & (b) and 2 Sets of (c))	NO	177,720.00
<b>IV</b>		<b>Mandatory Maintenance Equipment for Circuit Breakers</b>		
1	5000000619	Gas leakage detector	NO	75,000.00
2	3000003171	Gas filling and evacuating equipment portable with necessary union couplings, house pipes etc.,	NO	3,88,350.00
3	5000000064	Operation analyser along with Portable Dynamic contact resistance meter for six breaks	SET	25,79,500.00
4	5000000077	SF6 Gas filtering, drying, storage and recycling plant	NO	21,50,000.00
5	5000000081	Contact Resistance Meter(200A)	NO	1,79,610.00
6	5000000301	SF6 Dew point meter	NO	4,36,890.00
<b>V</b>	3000001498	Control Switching Device for 400kV SF6 Circuit Breaker	NO	4,90,780.00

**SCHEDULE - XI.D**

**SUPPLY OF INSTRUMENT TRANSFORMERS**

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
1	4000000995	Design, Engineering, manufacture, assembly, shop testing, supply and delivery at site including packing forwarding handling transportation to project site, unloading, of <b>420kV, 3150A, Single Phase Current Transformers</b> in accordance with specification, including first fill of transformer oil and all accessories, auxiliaries including terminal connectors for CTs as specified in technical specification (Isc = 63 kA for 1 sec)	NO	7,43,180.00
2	4000001259	Design, Engineering, manufacture, assembly, shop testing, supply and delivery at site including packing forwarding handling transportation to project site, unloading, of <b>420kV Single Phase CVT</b> in accordance with specification, including first fill of transformer oil and all accessories, auxiliaries terminal connectors for CVTs as specified in technical specification.	NO	3,81,420.00
3	4000000260	Design, Engineering, manufacture, assembly, shop testing, supply and delivery at site including packing forwarding handling transportation to project site, unloading, of <b>420kV, 2000-1000-500/1A, 0.2s Class, 5VA Burden with 200% Countinuous rating Single Phase Current Transformers</b> in accordance with specification, including first fill of transformer oil and all accessories, auxiliaries terminal connectors for CTs as specified in technical specification.	NO	5,79,460.00
4	4000000276	Design, Engineering, manufacture, assembly, shop testing, supply and delivery at site including packing forwarding handling transportation to project site, unloading, of <b>420kV Single Phase PT , 0.2 class</b> in accordance with specification, including first fill of transformer oil and all accessories, auxiliaries including marshalling boxes and terminal connectors for PTs as specified in technical specification.	NO	12,76,310.00
5 (a)	4000000627	ABT Energy Meters	NO	80,570.00
5 (b)	3000000468	Meter Box suitable made of GI with Power coating for ABT Meter with TTB	NO	13,590.00

**SCHEDULE - XI.E**

**PRICES FOR SUPPLY OF AC&DC DISTRIBUTION BOARDS**

<b>S. No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
1A	3000000291	415 V AC MAIN BOARD	SET	18,91,760.00
1B	4000001326	COMPACT OUTDOOR ACMB	SET	2,55,000.00
2	3000000288	415 V AC DISTRIBUTION BOARD	SET	17,11,490.00
3	3000000290	415 V AC LIGHTING BOARD	SET	3,69,460.00
4	4000000795	220 V DC DISTRIBUTION BOARD (UoM 1 NO = 1SET)	NO	3,55,700.00
5		MANDATORY SPARES for AC & DC DB's		
a	3000000548	1 No. Air Circuit Breaker 1250A with motor operated mechanism	NO	1,44,000.00
b	3000000550	Control Switch - 1 No	NO	18,000.00
c	3000000551	Spring Charging Motor - 1 No	NO	36,000.00
d	3000000552	Closing coil- 1 No	NO	3,330.00
e	3000000554	Opening Coil - 1 No	NO	3,330.00
f	3000000558	Limit Switch- 1 No	NO	450.00
g	3000000628	Busbar support insulator as percentage of the total quantity - 1 No	NO	108.00

**SCHEDULE - XI.F**

**PRICES FOR SUPPLY OF CONTROL & RELAY PANELS**

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
		Design, engineering, manufacture, assembly, shop testing, supply and delivery at sites including packing forwarding handling and unloading at site of complete set of the following control and relay and protection panels and other equipment with all equipment accessories and others as per specification.		
1 (i)	4000002950	Common Control and Busbar Protection Panels for 400kV kV side As per Annexure of Vol-III of C & R panel Specification (24 bays Distributed) (UoM 1 NO = 1 SET)	NO	1,27,33,330.00
1 (ii)	4000002706	Common Control and Busbar Protection Panels for 220 kV side As per Annexure of Vol-III of C & R panel Specification (24 bays Distributed)	SET	1,27,33,330.00
2	4000001243	400kV Line CB Control and Relay Panels As per Annexure of Vol-III of C & R panel Specification	NO	9,50,000.00
3	4000002953	400kV Line Protection Panels As per Annexure of Vol-III C & R panel Specification	NO	22,50,000.00
4	4000001266	400kV Tie CB Control and Relay panels As per Annexure of Vol-III of C&R panel Specification	NO	12,85,820.00
5(i)	4000001256	400kV side of 400/220kV 315/500 MVA ICT CB Control and Relay Panels as per Annexure of Vol-III of C & R panel Specification	NO	18,30,920.00
6(i)	4000001011	400/220kV 315/500 MVA ICT Protection Panels Annexure of Vol-III of C&R panel Specification	NO	16,78,320.00
5(ii)	4000000438	400kV Reactor Main CB Control and Relay Panels as per Annexure of Vol-III of C & R panel Specification	NO	18,50,000.00
6(ii)	4000001247	400kV Reactor Protection Panels Annexure of Vol-III of C & R panel Specification	NO	20,50,000.00
7	4000001255	220kV side of 400/220kV 315/500 MVA ICT CB Control and Relay Panels as per Annexure of Vol-III of C & R panel Specification	SET	18,66,670.00
8		Sub-Station Automation System as per Annexure of Vol-III including Software for Sub-Station Automation System along with visual monitoring system of Specification		
8A	3000001523	Sub-Station Automation System as per Annexure of Vol-III including Software for Sub-Station Automation System (UoM 1 NO = 1 SET)	NO	1,35,14,400.00

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
8B		Visual monitoring system (VMS) as per Specification		
8B(1)	<b>1.MAIN SETUP AT CONTROL ROOM FOR RECORDING &amp; LIVE VIEW MONITORING:</b>			
(i)	3000000471	Supply and Delivery of 4MP IP Based Network Bullet Camera – 40 Mtrs. Makes: CPPlus/ Bosch/Pelco/ Honeywell	NO	6,800.00
(ii)	3000000474	Supply and Delivery of 4MP IP Based Network Dome Camera – 30 Mtrs. Makes: CPPlus/ Bosch/Pelco/ Honeywell	NO	6,310.00
(iii)	3000002444	Supply and delivery of 32 Channel 4K Network Video Recorder. Makes: Cpplus/ Bosch/Honeywell/Pelco	NO	52,430.00
(iv)	3000000560	Supply and Delivery of 6 Tb Surveillance HDD Makes: Seagate/WD	NO	15,050.00
(v)	4000003996	Supply and Delivery of 24-Port Fiber SFP Switch. Makes: D-Link /Allied Telesis/Cisco	NO	69,900.00
(vi)	4000003997	Supply and Delivery of 8 x 10/100/ 1000 BASE-T PoE Ports, 2 x Gigabit SFP Ports. Makes: D-Link/Allied Telesis/ Cisco	NO	15,530.00
(vii)	3000000478	Supply and Delivery of SFP Fiber Module Makes: D-Link /Allied Telesis/Netgear	NO	5,830.00
(viii)	3000000714	Supply and Delivery of Fiber Optic Components LIU-Fixed 24 Port LIU. Make: D-Link/Any Equivalent	NO	6,800.00
(ix)	4000000882	Supply and Delivery of 17 U Floor Standing Enclosure Rack. Makes: D-Link/Walrack /Legrand	NO	20,390.00
(x)	3000000479	Supply and Delivery Of Fiber Patch Cords Single Mode Duplex LC- LC 2mtrs. Make: D-Link/Any Equivalent	NO	1,090.00
(xi)	3000000480	Supply and Delivery of HDMI Cable 15 Mtrs. Make: Standard	NO	3,880.00
(xii)	3000000482	Supply and Delivery of 3KVA UPS Makes: Vertiv/Any Equivalent	NO	40,780.00
(xiii)	4000000886	Supply and Delivery of 55" Inches Display. Makes: LG/Samsung/ Sony	NO	61,170.00
(xiv)	4000000884	Supply and Delivery of 2V-65Ah SMF Batteries. Makes: Quanta/ Exide	NO	5,830.00
(xv)	3000005301	Supply and Delivery of Cat6 Outdoor Cable. Make: Molex/D-link/ Legrand	M	58.00
8B (2)		<b>2.CAMERAS REQUIRED AT EACH BAY'S:</b>		
(i)	300000481	Supply and delivery of 2MP IP Based Network PTZ Camera - 150 Mtrs Makes: CPPlus/ Bosch/Pelco/ Honeywell	NO	57,280.00

S.No.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
(ii)	3000001940	Supply and Delivery of 8 x 10/100/ 1000 PoE Ports, 2 x Gigabit SFP Ports. Makes: D-Link/Allied Telesis/Cisco	NO	15,530.00
(iii)	3000000478	Supply and Delivery of SFP Fiber Module Makes: D-Link /Allied Telesis/Netgear	NO	5,830.00
(iv)	3000000483	Supply and Delivery of Power Coated VMS Metal Box for Network and Power Storage. Make: Standard	NO	2,910.00
(v)	7000000270	Supply and Delivery of 600VA UPS. Make: Vertiv/Any Equivalent	NO	3,400.00
(vi)	3000000479	Supply and Delivery Of Fiber Patch Cords Single Mode Duplex LC- LC 2mtrs. Make: D-Link/Any Equivalent	NO	1,090.00
8B(3)		3.CABLE & HDPE REQUIRED FOR EACH BAY (400KV,220KV,132KV):		
(i)	4000003895	Supply and Delivery of Outdoor Single Mode 6-Core OFC Cable. Makes: D-link/Molex/ Legrand	M	46.00
(ii)	3000005301	Supply and Delivery of Cat6 Outdoor Cable. Make: Molex/D-link/Legrand	M	58.00
(iii)	3000005328	Supply and Delivery of HDPE Pipe 32MM Makes: Reputed	M	56.00
(iv)	3000005343	Supply and Delivery of Armored Power Cable 2 Core 1.5 Sq.mm. Make: Finolex/ Polycab	KM	44,000.00
8B(4)		4. INSTALLATION PART:		
(i)	4000004029	Supply and Delivery of Electrical Accessories (Fiber T-Box, Screws, Crimping Jacks, MCB's, PVC pipe accessories for internal cabling, and supported accessories etc.,)	LOT	9,710.00
(ii)		Installation, Testing, Erection, Configuration, Commissioning, Transportation, Cable & HDPE Pipe Laying Charges.	LS	58,250.00
9		Relay Test kit and Testing Instruments( <b>as listed in Schedule-A1 (Spares)</b>		
	3000001031	(i) Microprocessor Based Relay Test Kit with necessary accessories, software, adv. Features compatible to IEC61850 and associated industrial Laptop (latest features) including dock station -1 set	NO	28,83,500.00
	3000001572	(ii) Test plugs	NO	11,650.00
	3000000661	(iii) Digital Multi Meters (Fluke Make)	NO	16,500.00
	5000001439	(iv) Digital Low Range Tong Tester (With milli amps Max upto 2 amps)	NO	66,020.00

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
	5000001438	(v) Digital High Range Tong Tester (max upto 2000 Amps)	NO	45,630.00
	5000000268	(vi) Phase sequence indicator	NO	11,650.00
	4000001512	(vii) Relay Tool Kit -1 No. (with Special Tool Kit of M/s. Taparia make)	SET	35,000.00
10		Mandatory Spares for Control and Relay Panels as listed in Schedule-A1 (Spares)		
(i)	3000000587	400KV Feeder Main- I Line Differential with Backup Distance Scheme with aux relays, trip relays (UoM 1 NO = 1 SET)	NO	4,95,000.00
(ii)	3000000588	400KV Feeder Main-II Line Differential with Backup Distance Scheme Distance Scheme with aux relays, trip relays (UoM 1 NO = 1 SET)	NO	7,65,000.00
(iii)	3000000590	500MVA ICT Main 1(87)Protection Scheme with aux relays,trip relays (UoM 1 NO = 1 SET)	NO	5,85,000.00
(iv)	3000000591	500MVA ICT Main 2(64)Protection Scheme with aux relays,trip relays (UoM 1 NO = 1 SET)	NO	5,85,000.00
(v)	3000000592	500MVA ICT HV Back Up Dir O/C and E/F with aux relays,trip relays (UoM 1 NO = 1 SET)	NO	1,35,000.00
(vi)	3000000594	500MVA ICT IV Back Up Dir O/C and E/F with aux relays,trip relays (UoM 1 NO = 1 SET)	NO	1,35,000.00
(vii)	3000000596	220KV Feeder Main- I Line Distance Scheme with aux relays, trip relays (UoM 1 NO = 1 SET)	NO	3,15,000.00
(viii)	3000000598	220KV Feeder Main-II Line Distance Scheme with aux relays, trip relays (UoM 1 NO = 1 SET)	NO	6,30,000.00
(ix)	4000000575	LBB Numerical relay	NO	2,25,000.00
(x)	3000000567	Busbar central unit with DC change over switch/relay	NO	8,55,000.00
(xi)	4000002437	125MVAR Bus Reactor Impedance protection relay	NO	4,95,000.00
(xii)	3000001978	Aux. relays & trip relays (one per type/model) (UoM 1 NO = 1 SET)	NO	13,500.00
11		Scientific Instruments as listed below		
(i)	5000000317	Transformer oil Breakdown voltage test kit	NO	9,02,100.00
(ii)	5000000020	10 kV Heavy duty Mains-cum-Battery operated Insulation tester ( Induction compensated in 400kv Switchyard)	NO	3,70,000.00
(iii)	5000000007	12kV Fully Automatic capacitance & Tandelta Test equipment with Laptop and other assesories (Megger/Dibble/Omicron)	NO	24,28,790.00

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
(iv)	5000000012	3 Phase Transformer Turns ratio test kit (Megger/Omicron)	NO	6,25,800.00
(v)	5000000279	Digital Micro Ohm meter/Battery Impedance kit	NO	5,82,000.00
(vi)	5000000693	Screw Guage	NO	8,410.00
(vii)	5000000002	Vernier Callipers	NO	9,500.00
(viii)	4000000554	Primary Current Injection test kit	NO	21,82,500.00
(ix)	5000000233	Knee point voltage test kit	NO	5,05,890.00
(x)	5000000037	Earth Tester	NO	95,780.00
(xi)	5000000018	Third Harmonic Resistive Current Measurement test kit	NO	8,16,260.00
(xii)	5000000047	CT,PT Analyser	NO	24,92,900.00
(xiii)	5000000355	Transformer Winding Resistance Kit	NO	7,48,240.00
(xiv)	5000000315	Battery Discharge cycle test kit	NO	7,00,000.00
(xv)	5000000298	Hand held walky talky with charger and all accessories	NO	12,370.00
(xvi)	5000000193	SFRA test kit with all accessories including industrial LAPTOP	NO	13,52,460.00
12	4000000239	LIU's 6 ports including pigtail type connectors	NO	3,800.00
13	4000000483	LIU's 12 ports including pigtail type connectors	NO	10,800.00
14	4000000486	LIU's 24 ports including pigtail type connectors	NO	13,500.00
15	4000000047	Ethernet Switch (20 ports: RJ45-04Nos, ST ports-16Nos)	NO	2,72,500.00

**SCHEDULE - XI.G**

**PRICES FOR SUPPLY OF BATTERY & BATTERY CHARGERS**

<b>S.No.</b>	<b>Material Code</b>	<b>Description of material</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
<b>1</b>	4000001343	220V, 400AH, capacity sealed maintenance free valve regulated lead acid 1 No. Battery bank (110 cells) supplied in factory charged condition along with all other required accessories (i.e) connectors etc.	SET	7,31,150.00
<b>2</b>	4000000846	1No. 40/100 A Float Charger and Float -Cum-Boost charger suitable for SMF VRLA Battery banks along with all required accessories etc. with centre zero DC earth leakage ammeter (UoM 1 NO = 1 SET)	NO	6,18,640.00
<b>3 (I)</b>		<b>Mandatory spares for Battery cells:</b>		
<b>a</b>	3000000570	Battery cells complete with separators, support insulators and Connectors	NO	1,000.00
<b>b</b>	3000000572	Thermometer for measuring room temperature(wall mounted type) - 1 NO and Variable output DC battery charger (0-15 V) - 1 NO	NO	6,000.00
<b>c</b>	3000000574	Cell testing voltmeter (3-0-3 V)-complete with leads	NO	2,500.00
<b>d</b>	3000000575	Digital cell testing voltmeter - 1No.;	NO	8,000.00
<b>e</b>	5000000176	Tool Box (UoM 1 NO = 1 SET)	NO	3,000.00
<b>3 (II)</b>		<b>Mandatory spares for Battery Chargers</b>		
<b>a</b>	3000000576	Rectifier fuses	NO	500.00
<b>b</b>	3000000602	Filter condenser fuses	NO	333.00
<b>c</b>	3000000578	Control fuses	NO	150.00
<b>d</b>	3000000579	SCRs	NO	2,500.00
<b>e</b>	3000000580	Diodes	NO	800.00
<b>f</b>	3000000907	Indicating lamps	NO	100.00
<b>g</b>	3000000582	Charger blocking diode	NO	1,250.00
<b>h</b>	3000002118	MCBs- one per module	SET	2,000.00
<b>i</b>	3000002119	Contactor of each rating & type -one per module	SET	6,000.00
<b>j</b>	3000000583	Selector switch	NO	667.00
<b>k</b>	3000000584	Potentiometer	NO	3,000.00
<b>l</b>	3000000586	Micro switches	NO	4,000.00
<b>m</b>	3000002123	Set of control cards (Firing card, AVR card power supply cards, Amplifier card, Earth fault defective card).	SET	16,000.00
<b>n</b>	3000000603	Shunts for DC Ammeter	NO	3,500.00
<b>o</b>	3000000604	LCD monitor with RS 485	NO	8,000.00

SCHEDULE - XII				
PRICES FOR SUPPLY OF GIS MODULES				
S.No	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
A)		400kV ONE AND HALF CIRCUIT BREAKER SCHEME INCLUDING LCC		
1	4000003712	420kV, 3150A, 63kA SF6 GIS Transformer/ Reactor Feeder bay Module and all accessories as per Technical Specification	SET	4,08,30,460.00
2	4000000027	420kV, 3150A, 63kA SF6 GIS Line Feeder bay Module with Support structures and all accessories as per Technical Specification	SET	3,78,89,390.00
3	4000000793	420kV, 3150A, 63kA SF6 GIS Tie bay Module with Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, CSD, support structures and all accessories as per Technical Specification	SET	3,61,23,550.00
4	4000000789	420kV, 4000A, 63kA, 3 Single Phase (Isolated), SF6 GIS Bus bars for two diameters (Diameter = ICT+ TIE+ Line bay) each enclosed in three individual bus enclosures running along the length of the switchgear to interconnect each of circuit breaker bay module complete with gas density monitors ( Including online gas monitoring system), UHF sensors for online OPDMS system, including Bus VT along with associated disconnector and grounding switch, local control cubicle with BCU, complete Busbar as per Technical Specification	SET	1,80,00,000.00
5		420kV, 4000A, 63kA 3 Single Phase (isolated) GIS metal enclosed Bus bars extension module for Full diameter (ICT+ TIE+ Line bay) each enclosed in three individual bus enclosures running along the length of the switchgear to interconnect each of circuit breaker bay module complete with gas density monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, excluding (Bus VT, associated disconnector and grounding switch) as per Technical Specification	SET	
A)		Bus Bar extension Module		23,62,920.00
B)		Adapter / Interface Module (For Extension of GIS of other GIS make)		96,37,080.00
6	4000002972	420kV, 4000A, 63kA, Single phase, SF6 Gas Insulated Bus Duct (GIB), Gas density monitor (Including online gas monitoring system) UHF sensors for online OPDMS system, including associated Support structures and Accessories as per Technical Specification	M	96,790.000
7	4000000873	420kV, 3150A, 63kA, Single phase, SF6/ Air Bushing for connecting GIS to AIS as per Technical Specification	NO	7,50,000.00

S.No .	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
B)		220kV, 50 kA GIS Including LCC ( Double bus arrangement)		
1	4000002459	220kV, 2000A, 50kA SF6 GIS Transformer bay Module with associated Support structures and all accessories as per Technical Specification	SET	2,57,43,100.00
2	4000002461	220kV, 2000A, 50kA SF6 GIS Line feeder bay Module with associated Support structures and all accessories as per Technical Specification	SET	2,57,43,100.00
3	4000000781	220kV, 3000A, 50kA, SF6 GIS Bus Coupler Bay Module with associated Support structures and all accessories as per Technical Specification (UoM 1 NO = 1 SET)	NO	2,15,70,770.00
4	4000000750	220kV, 3000A, 50kA for 1 sec. 3 phase (Single phase isolated / 3 phase encapsulated), SF6 gas insulated , metal enclosed Bus bar for Five number 220kV bays running along the length of the switchgear to interconnect each of circuit breaker bay module complete with gas density monitors (Including online gas monitoring system) UHF sensors for online OPDMS system, including Bus VT along with associated disconnector and grounding switch complete as per Technical Specification	SET	1,50,00,000.00
5		220kV, 3000A, 50kA for 1 sec. 3 phase (Single phase isolated / 3 phase encapsulated), SF6 gas insulated , metal enclosed Bus bar extension module for One number 220kV bay running along the length of the switchgear to interconnect each of circuit breaker bay module complete with gas density monitors (Including online gas monitoring system) UHF sensors for online OPDMS system, complete as per Technical Specification	SET	
A)		Bus Bar extension Module		4,71,120.00
B)		Adapter / Interface Module (For Extension of GIS of other GIS make)		75,28,880.00
6	4000002245	220kV, 3000A, 50kA, Single phase, SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including associated Support structures & Accessories as per Technical Specification	M	75,000.000
7	4000000920	220kV, 2000A, 50kA, Single phase, SF6/ Air Bushing for connecting GIS to AIS as per Technical Specification	NO	4,03,850.00

<b>ANNEXURE - B</b>		
<b>PRICES FOR SUPPLY OF TRANSMISSION LINE MATERIALS</b>		
<b>Sl.No.</b>	<b>Annexures</b>	<b>Description</b>
1	ANNEXURE-B (i)	SUPER STRUCTURES, CONDUCTOR AND HARDWARE, TOWER ACCESSORIES AND OTHER TOWER MATERIAL
2	ANNEXURE-B (ii)	LINE AND SUBSTATION TESTING EQUIPMENTS (LATEST MODELS)

NOTE: FREIGHT @ 2% ARE EXTRA.

ANNEXURE - B : PRICES FOR SUPPLY OF 400kV LINE MATERIAL					
S.N o.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight	
<b>I.</b>		<b>Super Structures, Conductor and Hardware, Tower Accessories and Other Tower Material</b>			
<b>1</b>	8000000710	Stubs & Cleats for all Towers	XKG	As per monthly rates of 400kV Transmission Lines issued from Monthly circulairs of TGTRANS CO	
<b>2(i)</b>	8000000710	Super Structure for all Towers	XKG		
<b>2(ii)</b>		Bolts & Nuts	TO		
<b>3</b>		<b>Hard Ware Fittings, Hardware &amp; Accessories Complete for Quadruple ACSR Moose Conductor</b>			
a)	3000001754	Double Suspension Insulator Hardware Complete	SET	13,250.00	
b)	3000001779	Quadruple/Double Tension Hardware Complete	SET	45,740.00	
c)	3000001766	Single Pilot Insulator Hardware Complete	SET	13,780.00	
d)	4000002621	Midspan compression Joints	NO	1,130.00	
e)	3000002190	Quad Rigid spacers for ACSR Moose Conductor for Jumpers	NO	1,360.00	
f)	3000001992	Bundle spacer dampers Quad Moose ACSR Conductor (UoM 1 SET = 1 NO)	SET	1,840.00	
g)	3000002337	Twin Moose Rigid Spacer (250 mm spacing) for ACSR Moose	NO	757.00	
h)	4000003015	Repair Sleeves for ACSR Conductor	NO	429.00	
<b>4</b>	4000002303	7/3.66mm Galvanised Earthwire	KM	37,150.00	
<b>5</b>		<b>Hard Ware Fittings &amp; Accessories for 7/3.66mm GS Earthwire</b>			
a)	4000003397	Suspension Hardware Complete (UoM 1 SET = 1 NO)	SET	595.00	
b)	4000003532	Tension Hardware Complete	SET	593.00	
c)	4000000023	Vibration Dampers	NO	474.00	
d)	4000002271	Flexible Copper Bonds with suitable bolts & nuts	NO	569.00	
e)	4000002624	Midspan compression Joints	NO	122.00	
f)	4000003019	Repair Sleeves	NO	197.00	
<b>6</b>	4000000489	160KN Anti fog Disc Insulators (470mm creapage)	NO	1,200.00	
<b>7</b>		<b>Hard Ware Fittings, Hardware &amp; Accessories Complete for Twin ACSR Moose Conductor</b>			
a)	3000001767	Single Suspension Insulator Hardware Complete	SET	8,040.00	
b)	4000001257	Single suspension Pilot Insulator Hardware Complete	SET	14,450.00	
c)	4000001233	Double Tension Hardware Complete	SET	14,060.00	
d)	4000002621	Midspan compression Joints for ACSR Moose	NO	1,080.00	
e)	4000003015	Repair Sleeves for ACSR Moose Conductor	NO	411.00	
f)	4000001267	Vibration Dampers	NO	1,270.00	

S.N o.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
g)	4000001221	Bundle spacers for Twin Moose ACSR Conductor	NO	799.00
h)	4000001222	Twin rigid spacers (450 mm spacing) for ACSR Moose conductor for jumpers	NO	757.00
8	40000107	Bird Guard	NO	250.00
9	4000002713	Number Plates with Bolts, Nuts & Washers	NO	208.00
10	40000212	Danger Plates with Bolts, Nuts & Washers	NO	231.00
11	4000002910	Phase Plates with Bolts, Nuts & Washers (Set of Three R,Y & B)	SET	244.00
12	40000211	Circuit Plates with Bolts, Nuts & Washers (Set of Two)	SET	262.00
13		Anti Climbing Devices for		
a)	4000001543	Tangent Towers incl. contingencies	SET	4,030.00
b)	40000190	Small Angle Towers incl. contingencies (UoM 1 NO = 1SET)	NO	6,850.00
c)	40000191	Medium Angle Towers incl. contingencies (UoM 1 NO = 1SET)	NO	8,560.00
d)	40000192	Large Angle and Dead End Towers incl. contingencies (UoM 1 NO = 1SET)	NO	8,560.00
e)	40000096	DD Special Anchor Towers for River crossing incl. contingencies (UoM 1 NO = 1SET)	NO	6,820.00
14		Earthing of Towers		
a)	4000002919	Pipe type (UoM 1 NO = 1SET)	NO	1,670.00
b)	3000003144	Counter Poise	SET	4,000.00
15	4000002376	GPS(Garemin map 785 model)	NO	21,140.00
		<b>NEW ITEMS:</b>		
16	8000000050	400kV / 220kV / 132kV Design & supply of MC/DC GI Monopole structure including all accessories of the Poles, Anchor bolts and cage assembly	XKG	1,654.00
17	4000000514	HTLS Invar Conductor	KM	11,28,480.00
18		<b>Hard Ware Fittings, Hardware &amp; Accessories Complete for Twin HTLS Invar Conductor</b>		
a)	3000000906	Single Suspension Insulator Hardware Complete	SET	11,960.00
b)	3000001026	Double Tension Hardware Complete	SET	19,590.00
c)	3000001042	Single Pilot Insulator Hardware Complete	SET	17,420.00
d)	3000001848	Midspan compression Joints	NO	1,740.00
e)	3000000510	Twin Rigid spacers for HTLS Conductor for Jumpers	NO	626.00
f)	3000000334	Twin Spacer damper for HTLS Conductor	NO	1,600.00
g)	4000003024	Repair Sleeves for HTLS Conductor (UoM 1SET = 1 NO)	SET	716.00
19	4000000869	Supply of 400kV XLPE Under Ground Single Core 2500 Sqmm Copper Cable	KM	3,98,04,350.00

S.N o.	Material Code	Description of material	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
<b>20</b>		<b>CABLE JOINTS</b>		
		<b>Design, Supply of Pre-moulded cable joints along with accessories suitable for 400kV, 2500 Sq.mm copper cable.</b>		
a)	3000001114	400kV, 2500 Sq.mm Pre-moulded joints without cross bonding arrangements (i.e., straight through joints) with copper casing and coffin box	NO	21,94,120.00
b)	3000001130	400kV, 2500 Sq.mm Pre-moulded joints with cross bonding arrangements (Insulated joints) with copper casing and coffin box	NO	21,94,120.00
<b>21</b>		<b>CABLE END TERMINATIONS</b>		
a)	3000000563	Design, Supply of 400 kV, 2500 Sq.mm structure/pole mounted type cable end terminations with silicon material complete in all respect.	NO	19,46,490.00
b)	3000000564	Design, Supply of 400 kV, 2500 Sq.mm GIS cable end terminations (sealing ends)	NO	25,02,850.00
<b>22</b>	4000000070	Supply of 500/500 sq.mm coaxial copper cable conductor XLPE insulated 6.6kV grade with suitable lugs and glands for joint bays	KM	1,08,00,000.00
<b>23</b>	4000001403	Supply of Single bonding cable of 500 Sq.mm copper conductor XLPE insulated 6.6kV grade	KM	65,00,000.00
<b>II.</b>		<b>LINE AND SUBSTATION TESTING EQUIPMENTS (LATEST MODELS)</b>		
1	5000000013	Offline overhead EHVAC transmission line Analyzer (UoM 1SET = 1 NO)	SET	27,16,000.00
2	5000000055	Tower footing earth impedance measurement instrument	NO	3,54,550.00
3	5000000059	Portable online DC earth fault locator	NO	1,61,700.00
4	5000000197	Ultra sound partial discharge detector	NO	6,79,000.00
5	5000000198	Flexible leakage / line current tester	NO	3,44,350.00
6	5000000201	5kV Insulation tester with accessories	NO	1,19,890.00
7	5000000202	15 kV insulation tester with accessories	NO	3,68,600.00
8	5000000205	Portable daytime corona detection camera	NO	40,74,000.00
9	5000000065	(M140) - Multi mini digital clamp tester for AC current / leakage	NO	24,250.00
10	5000000069	M 600 AC/DC current leakage digital clamp tester	NO	35,890.00
11	5000000073	(M 250) - Multi mini digital clamp tester AC/DC current	NO	24,250.00

**PRICES FOR SUPPLY OF  
220KV / 132KV / 33 KV  
SUB STATION AND  
TRANSMISSION LINE  
MATERIALS**

<b>ANNEXURE-A1</b>	
<b>Prices for Supply of Sub-station materials</b>	
<b>Sl.No.</b>	<b>Description</b>
1	Isolator (Metallic Portion)
2	Under Ground cable, Joints, terminations etc
3	GIS Modules
4	Lightning Arrestors
5	Battery and Battery Charges
6	Insulators
7	Control Cables (1100V insulated PVC sheathed stranded Cu. Control Cable), LT Power Cables
8	Circuit Breakers
9	Instrument Transformers <ul style="list-style-type: none"> <li>(i) Current Transformers</li> <li>(ii) Potential Transformers</li> <li>(iii) CVTs</li> </ul>
10	HTLS Conductor and Accessories <ul style="list-style-type: none"> <li>(i) Line Hardware for HTLS Non-Metallic core Conductor Equivalent to ACSR Wolf Conductor.</li> <li>(ii) Line Hardware for HTLS Non-Metallic core Conductor Equivalent to ACSR Panther Conductor.</li> <li>(iii) Line Hardware for HTLS Non-Metallic core Conductor Equivalent to ACSR Zebra Conductor.</li> <li>(iv) Line Hardware for HTLS Non-Metallic core Conductor Equivalent to ACSR Moose Conductor.</li> <li>(v) Sub-station Hardware suitable for HTLS metallic core conductor equivalent to Moose</li> </ul>
11	Sub-station Material <ul style="list-style-type: none"> <li>(i) SS Material</li> <li>(ii) Clamps &amp; Connectors</li> </ul>
12	Transmission Line Items <ul style="list-style-type: none"> <li>(i) Conductors</li> <li>(ii) Bolts &amp; Nuts</li> <li>(iii) Hardware for Panther Conductor</li> <li>(iv) Hardware for Moose Conductor</li> <li>(v) Hardware for Zebra Conductor</li> <li>(vi) Hardware for 7/3.15mm HTGS Earth Wire</li> <li>(vii) Tower accessories</li> </ul>
NOTE: FREIGHT@2% ARE EXTRA	

<b>Material /Equipment rates for 220 KV &amp; 132 KV Substation &amp; Lines (Cost Data 2025-2026)</b>				
Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>I Isolators (Metallic Portion)</b>				
1	4000000168	220 KV 2500A Isolators with single E/S (Isc=50KA for 1 sec) AC motor operated with all accessories, operating Mechanism box, auxiliaries, interpole wiring, Terminal connectors other essentials	NO	396790
2	4000000567	220 KV 2500A Isolators without E/S (Isc=50KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box,interpole wiring, Terminal connectors other essentials	NO	380050
3	4000000315	220 KV 1600A Isolators with single E/S (Isc=50KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring,Terminal connectors other essentials	NO	394130
4	4000001067	220 KV 1600A Isolators without E/S (Isc=50KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring, Terminal connectors other essentials	NO	281210
5	4000000327	220 KV 800A Isolators with single E/S (Isc=50KA for 1 sec) AC motor operated with allaccessories, auxiliaries with operating Mechanism box, interpole wiring,Terminal connectors other essentials	NO	207700
6	4000000779	220 KV 800A Isolators without E/S (Isc=50KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring, Terminal connectors other essentials	NO	155510
7	4000000334	132 KV 1600A Isolators with single Earth Switch (Isc=40KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring,Terminal connectors other essentials	NO	384460
8	4000000487	132 KV 1600A Isolators without Earth Switch (Isc=40KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring,Terminal connectors other essentials	NO	257740
9	4000000326	132 KV 1200A Isolators with single Earth Switch (Isc=40KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring,Terminal connectors other essentials	NO	353350
10	4000000823	132 KV 1200A Isolators without Earth Switch (Isc=40KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box,interpole wiring,Terminal connectors other essentials	NO	188520
11	4000000442	132 KV 800A Isolators with single E/S (Isc=40KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring, Terminal connectors other essentials	NO	175730
12	4000000244	132 KV 800A Isolators without E/S (Isc=40KA for 1 sec) AC motor operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring,Terminal connectors other essentials	NO	132060

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
13	4000000981	33 KV Isolators-2000 A (Isc=31.5KA for 1 sec) Manual operated with all accessories, auxiliaries marshaling boxes, interpole wiring, Terminal connectors other essentials	NO	108710
14	4000000980	33 KV Isolators-1200 A (Isc=31.5KA for 1 sec) Manual operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring, Terminal connectors other essentials	NO	68450
15	4000000984	33 KV Isolators-800 A(Isc=31.5KA for 1 sec) Manual operated with all accessories, auxiliaries with operating Mechanism box, interpole wiring, Terminal connectors other essentials.	NO	52630

**Material /Equipment rates for 220 KV & 132 KV Substation & Lines**  
**(Cost Data 2025-2026)**

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Frieght
<b>I</b>		<b>132kV 630Sqmm</b>		
1	4000000439	Supply of 132 KV Under ground Single Core 630 sq mm XLPE Copper Cable	KM	9,702,690.00
2	3000003645	Design,Supply of 132 kV, 630 Sq.mm Pre-molded Joints with cross bonding arrangements (Insulated Joints ) with copper casing and coffin box	No.	650,000.00
3	3000003646	Design,Supply of 132 kV, 630 Sq.mm Pre-molded Joints without cross bonding arrangements with copper casing and coffin box	No.	640,000.00
4	3000005095	Design,Supply of 132 kV 630 Sq.mm Indoor type cable end terminations complete in all respects. (SF6 type cable terminations)	No.	482,970.00
5	3000005097	Design,Supply of 132 kV 630 Sq.mm Outdoor type cable end terminations Porcelain (sealing ends)complete in all respects.	No.	482,810.00
6	3000005035	Design,Supply of 132 kV 630 Sq.mm Pole mounted type cable end terminations (sealing ends) complete in all respects. (Pole mounted)	No.	503,640.00
<b>II</b>		<b>132kV 1000Sqmm</b>		-
7	4000000435	Supply of 132 KV Under ground Single Core 1000 sq mm XLPE Copper Cable	KM	15,553,400.00
8	3000000124	Design ,Supply of 132 kV, 1000 Sq.mm Pre-molded Joints with cross bonding arrangements (Insulated Joints ) with copper casing and coffin box	No.	670,000.00
9	3000000538	Design ,Supply of 132 kV,1000 Sq.mm Pre-molded Joints without cross bonding arrangements with copper casing and coffin box	No.	655,000.00
10	3000000540	Design ,Supply of 132 kV 1000 Sq.mm Indoor type cable end terminations complete in all respects. (SF6 type cable terminations)	No.	496,110.00
11	3000000542	Design ,Supply of 132 kV 1000 Sq.mm Outdoor type cable end terminations Porcelain (sealing ends)complete in all respects.	No.	499,390.00
12	3000000125	Design ,Supply of 132 kV 1000 Sq.mm Pole mounted type cable end terminations (sealing ends) complete in all respects. (Pole mounted)	No.	580,810.00
<b>III</b>		<b>132kV 1200Sqmm</b>		-

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
13	4000000436	Supply of 132 KV Under ground Single Core 1200 sq mm XLPE Copper Cable	KM	16,165,050.00
14	3000000500	Design ,Supply of 132 kV, 1200 Sq.mm Pre-molded Joints with cross bonding arrangements (Insulated Joints ) with copper casing and coffin box	No.	680,000.00
15	3000002619	Design ,Supply of 132 kV,1200 Sq.mm Pre-molded Joints without cross bonding arrangements with copper casing and coffin box	No.	670,000.00
16	3000005096	Design ,Supply of 132 kV 1200 Sq.mm Indoor type cable end terminations complete in all respects. (SF6 type cable terminations)	No.	501,650.00
17	3000000543	Design ,Supply of 132 kV 1200 Sq.mm Outdoor type cable end terminations Porcelain (sealing ends)complete in all respects.	No.	501,890.00
18	3000002640	Design ,Supply of 132 kV 1200 Sq.mm Pole mounted type cable end terminations (sealing ends) complete in all respects. (Pole mounted)	No.	583,720.00
<b>IV</b>		<b>220KV 1000Sqmm</b>		-
19	4000000774	Supply of 220 KV XLPE Underground Single Core 1000 sq mm Copper Cable	KM	16,641,130.00
20	3000000600	Design ,Supply of 220 kV, 1000 Sq.mm Pre-molded Joints with Copper casing with cross bonding arrangements (Insulated Joints)	No.	950,400.00
21	3000000599	Design ,Supply of 220 kV, 1000 Sq.mm Pre-molded Joints with Copper casing without cross bonding arrangements	No.	889,350.00
22	3000002295	Design ,Supply of 220 kV 1000 Sq.mm Outdoor type cable end terminations Porcelain (sealing ends)complete in all respects.	No.	1,117,340.00
23	3000005052	Design ,Supply of 220 kV 1000 Sq.mm Pole mounted type cable end terminations (sealing ends) complete in all respects. (Pole mounted)	No.	1,007,100.00
24	3000005048	Design ,Supply of 220 kV 1000 Sq.mm Indoor type cable end terminations complete in all respects. (SF6 type cable terminations)	No.	824,360.00

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>V</b>		<b>220KV 1200Sqmm</b>		-
25	4000000087	Supply of 220 KV XLPE Underground Single Core 1200 sq mm Copper Cable	KM	19,104,760.00
26	3000002319	Design ,Supply of 220 kV, 1200 Sq.mm Pre-molded Joints with Copper casing with cross bonding arrangements (Insulated Joints)	No.	950,400.00
27	3000002311	Design ,Supply of 220 kV, 1200 Sq.mm Pre-molded Joints with Copper casing without cross bonding arrangements	No.	889,350.00
28	3000000608	Design ,Supply of 220 kV 1200 Sq.mm Outdoor type cable end terminations Porcelain (sealing ends)complete in all respects.	No.	1,117,340.00
29	3000002307	Design ,Supply of 220 kV 1200 Sq.mm Pole mounted type cable end terminations (sealing ends) complete in all respects. (Pole mounted)	No.	961,270.00
30	3000000544	Design ,Supply of 220 kV 1200 Sq.mm Indoor type cable end terminations complete in all respects. (SF6 type cable terminations)	No.	727,740.00
<b>VI</b>		<b>220KV 2500Sqmm</b>		
31	4000000874	Supply of 220 KV XLPE Underground Single Core 2500 sq mm Copper Cable	KM	33,553,400.00
32	3000000462	Design ,Supply of 220 kV, 2500 Sq.mm Pre-molded Joints with Copper casing with cross bonding arrangements (Insulated Joints)	No.	1,010,880.00
33	3000000546	Design ,Supply of 220 kV, 2500 Sq.mm Pre-molded Joints with Copper casing without cross bonding arrangements	No.	985,190.00
34	3000000607	Design ,Supply of 220 kV 2500 Sq.mm Outdoor type cable end terminations Porcelain (sealing ends)complete in all respects.	No.	1,142,280.00
35	3000000455	Design ,Supply of 220 kV 2500 Sq.mm Pole mounted type cable end terminations (sealing ends) complete in all respects. (Pole mounted)	No.	1,194,710.00
36	3000000606	Design ,Supply of 220 kV 2500 Sq.mm Indoor type cable end terminations complete in all respects. (SF6 type cable terminations)	No.	962,280.00
37	4000003065	33KV 400Sqmm 1 core copper XLPE cable	KM	3,658,480.00
38	4000001045	33KV 400Sqmm 3core Al XLPE cable	KM	2,758,840.00
39	4000000528	33KV 630Sqmm 1core Cu XLPE cable	KM	5,689,550.00

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
40	4000000898	Supply of 400Sq.mm Co-axial Copper conductor PVC insulated 6.6 kV grade with suitable lugs and glands for sheath bonding from cross bonding joint to link box.	KM	7,776,700.00
41	4000000899	Supply of 400 Sq.mm PVC insulated cable conductor PVC insulated 6.6 kV grade with suitable lugs and glands for sheath bonding from normal joints to link box.	KM	4,381,860.00
42	4000001424	Supply of 300Sq.mm Co-axial Copper conductor PVC insulated 6.6 kV grade with suitable lugs and glands for sheath bonding from cross bonding joint to link box.	KM	6,141,780.00
43	4000001395	Supply of 300 Sq.mm PVC insulated cable conductor PVC insulated 6.6 kV grade with suitable lugs and glands for sheath bonding from normal joints to link box.	KM	3,241,240.00
44	4000001422	Supply of 240 Sq.mm Co-axial Copper conductor PVC insulated 6.6 kV grade with suitable lugs and glands for <b>sheath bonding</b> from cross bonding joint to link box.	KM	5,429,280.00
45	4000001397	Supply of 240 Sq.mm PVC insulated cable conductor PVC insulated 6.6 kV grade with suitable lugs and glands for sheath bonding from normal joints to link box.	KM	2,891,090.00
46	30000002415	3 phase link boxes with SVL to cross bond the sheath	NO	123,750.00
47	30000002414	3 phase link boxes without SVL to cross bond the sheath	NO	61,180.00
48	3000003864	Single phase link boxes without SVL	NO	27,080.00
49	3000003865	Single phase link boxes with SVL	NO	35,490.00
50	3000000648	33KV 3CX400SQMM GIS SF6 TERMINATION FOR XLPE ALUMINUM UG CABLE (1SET= 3 NO. OF SINGLE PHASE)	No.	82,830.00
51	3000000232	33KV 400SQMM OUTDOOR 1C CU XLPE UG CABLE TERMINATION	NO	2,820.00
52	3000001726	33KV 400SQRM OUTDOOR TERMINATION FOR 3 CORE ALUMINIUM CABLE	NO	5,640.00
53	3000002773	33KV SINGLE CORE 400SQMM GIS SF6 XLPE COPPER CABLE TERMINATION	NO	26,630.00

**Material /Equipment rates for 220 KV & 132 KV Substation & Lines  
(Cost Data 2025-2026)**

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Frieght
<b>I</b>	<b>GIS Modules</b>			
1	4000000801	132kV GIS Feeder Bay module, 1250A, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification. (GIS including LCC)	NO	11628970
2	4000000805	132 KV GIS Transformer Bay Module, 800A, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification. (GIS including LCC)	NO	10460880
3	4000000809	132 KV GIS Bus VT Module, 132KV/110V. 3 Phase, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification. (GIS including LCC)	NO	3905000
4	4000000813	132 KV GIS Bus Sectionaliser Module with complete set (Breaker and CTs), 2500/3150A, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification. (GIS including LCC)	NO	9655850
5	4000004072	132kV, 2500A, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), gas density monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification.	Mtr	138320
6	4000000910	132kV, 1600A, 40kA for 1 sec Single phase SF6 /Air bushings for connecting GIS to AIS as per Technical Specification.	NO	346150
7	4000000821	33 KV GIS Feeder Bay Module as per Technical Specification	NO	5104370
8	4000000837	33 KV GIS Transformer Bays Module as per Technical Specification	NO	4940640
9	4000000857	33 KV GIS Bus VT Module, 33KV/110V as per Technical Specification	NO	2693250
10	4000000865	33 KV GIS Bus Sectionaliser Module with complete set (Breaker and CTs) as per Technical Specification	NO	4351760
11	4000000990	GIS module for Station transformer as per Technical Specification	NO	4044850

## LIGHTENING ARRESTORS

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Frieght
<b>I</b>	<b>Lightening Arrestors</b>			
1	4000000742	220 KV Lightening Arrestors 50KA (Porcelain)--Class3 including Terminal connectors, Surge monitor and accessories etc.	NO	55000
2	4000000417	132 KV Lightening Arrestors 40KA (Porcelain)--Class3 including Terminal connectors, Surge monitor and accessories etc	NO	35850
3	4000000419	33 KVLightening Arrestors 31.5KA (Porcelain)-Class3 including Terminal connectors, Surge monitor and accessories etc	NO	4050
4	4000000355	220 KV Lightening Arrestors 50KA (Polymer)-Class3 including Terminal connectors, Surge monitor and accessories etc	NO	69860
5	4000000357	132 KV Lightening Arrestors 40KA (Polymer)-Class3 including Terminal connectors, Surge monitor and accessories etc	NO	42300
6	4000000377	33 KV Lightening Arrestors 31.5KA (Polymer)--Class3 including Terminal connectors, Surge monitor and accessories etc	NO	8500

<b>BATTERY &amp; BATTERY CHARGERS</b>				
Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>I</b>	<b>Battery and Battery Chargers</b>			
1	4000001334	220V, 200AH Battery set (Tubular/Flooded Type) with Container	Set	519,470.00
2	3000000261	220V, 80AH Battery set (Tubular/Flooded Type) with Container	NO	255200.00
3	4000001332	220V, 100AH Battery Set (VRLA)	Set	204930.00
4	4000000786	220V, 200AH Battery set(VRLA)	NO	353440.00
6	4000000553	220V, 200AH Battery Charger suitable for both VRLA & Non-VRLA 200AH battery sets with DCDB	NO	291250.00
7	4000000796	220V, 100AH Battery Charger suitable for both VRLA & Non-VRLA 100AH battery sets with DCDB	NO	200180.00
8	3000000248	DCDB with 10Nos 20A feeders and 10NOs 10A feeders	NO	75750.00
9	3000000249	DCDB with 20Nos 20A feeders and 20NOs 10A feeders	NO	126000.00

<b>INSULATORS</b>				
Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>I</b>	<b>Insulators</b>			
1	4000000659	220 KV 70KN SRC Insulators	NO	4350
2	4000000647	220 KV 120KN SRC Insulators	NO	4560
3	4000000034	220 KV 160KN SRC Insulators	NO	4850
4	4000000240	132 KV 70KN SRC Insulators	NO	2870
5	4000000238	132 KV 120KN SRC Insulators	NO	3110
6	4000001467	70 kN Disc Porcelain Insulators (Normal)	NO	404
7	4000000164	120 kN Disc Porcelain Insulators (Normal)	NO	696
8	4000001466	70 kN Disc Porcelain Insulators (Anti-Fog)	NO	755
9	4000000163	120 kN Disc Porcelain Insulators (Anti-Fog)	NO	805
10	4000000761	220 KV Solid core insulators/Bus post Insulators	NO	19350
11	3000003608	132 KV Solid core insulators/Bus post Insulators	NO	10080
12	4000001142	33 KV Solid core insulators/Bus post Insulators	NO	2420
13	4000000288	132 KV 70KN Porcelain long rod insulators (Suspension) (Normal)	NO	3300
14	4000000331	132 KV 120KN Porcelain long rod insulators (Tension) (Normal)	NO	7430
15	4000000388	132 KV 70KN Porcelain long rod insulators (Suspension) (Anti fog)	NO	11700
16	4000000399	132 KV 120KN Porcelain long rod insulators (Tension) (Anti fog)	NO	13320
17	4000000130	220 KV 70KN Porcelain long rod insulators (Suspension) (Normal)	NO	5500
18	4000000131	220 KV 120KN Porcelain long rod insulators (Tension) (Normal)	NO	8400
19	4000000405	220 KV 70KN Porcelain long rod insulators (Suspension) (Anti fog)	NO	18900
20	4000000410	220 KV 120KN Porcelain long rod insulators (Tension) (Antifog)	NO	20700

### CONTROL CABLES & LT POWER CABLES

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>I</b>	<b>Control Cables(1100 V insulated PVC sheathed stranded Cu control cable)</b>			
1	4000000523	2CX2.5 Sq.mm Cu Control Cable(Un armoured)	KM	66820
2	4000001198	4CX2.5 Sq.mm Cu Control Cable (Un armoured)	KM	110290
3	4000001421	6CX2.5 Sq.mm Cu Control Cable (Un armoured)	KM	137080
4	4000000074	10CX2.5 Sq.mm Cu Control Cable (Un armoured)	KM	253620
5	4000000170	12CX2.5 Sq.mm Cu Control Cable (Un armoured)	KM	264950
6	4000000496	19CX2.5 Sq.mm Cu Control Cable(Un armoured)	KM	435730
7	4000000541	2CX1.5 Sq.mm Cu Control Cable (Unarmoured)	KM	43330
8	4000000532	4CX1.5 Sq.mm Cu Control Cable (Unarmoured)	KM	73500
9	4000000535	6CX1.5 Sq.mm Cu Control Cable (Unarmoured)	KM	103300
10	4000000536	10CX1.5 Sq.mm Cu Control Cable (Unarmoured)	KM	167000
11	4000000537	12CX1.5 Sq.mm Cu Control Cable (Unarmoured)	KM	198600
	1100 V insulated PVC FRLS sheathed stranded Cu control cable			
12	4000000544	2CX2.5 Sq.mm FRLS Control Cable (Unarmoured)	KM	63970
13	4000000545	4CX2.5 Sq.mm FRLS Control Cable (Unarmoured)	KM	103410
14	4000000546	6CX2.5 Sq.mm FRLS Control Cable (Unarmoured)	KM	161300
15	4000000547	10CX2.5 Sq.mm FRLS Control Cable (Unarmoured)	KM	232120
16	4000000778	12CX2.5 Sq.mm FRLS Control Cable (Unarmoured)	KM	271900
<b>II</b>	<b>LT Power Cables (1100V XLPE insulated PVC sheathed, Galvanised steel wire/strip Armoured/ stranded Al conductor cable)</b>			
17	4000000955	3.5CX95 Sqmm Al. power cable	KM	388510
18	4000000896	3.5CX120 Sqmm Al. power cable	KM	418180

<b>Material /Equipment rates for 220 KV &amp; 132 KV Substation &amp; Lines (Cost Data 2025-2026)</b>				
Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>I</b>	<b>Circuit Breakers</b>			
1	4000001031	220 KV SF6 Circuit Breaker 3-pole (Im=3150A, Isc=50KA) spring charged motor operated with all accessories, auxiliaries including terminal connectors, Marshalling boxes and first fill of SF6 gas including support structures complete.(25 mm/Kv)	NO	1402430
2	4000000568	220 KV SF6 Circuit Breaker 3-pole (Im=3150A, Isc=50KA) spring charged motor operated with all accessories, auxiliaries including terminal connectors, Marshalling boxes and first fill of SF6 gas including support structures complete.(31 mm/Kv)	NO	1766730
3	4000000468	132 KV SF6 Circuit Breaker 3-pole (Im=3150A, Isc=40KA) spring charged motor operated with all accessories, auxiliaries including terminal connectors, Marshalling boxes and first fill of SF6 gas including support structures complete.(25/ mm/Kv & 31 mm/Kv)	NO	621430
4	4000000979	33 KV Vacuum outdoor circuit breaker (Im=2000A, Isc=31.5KA) spring charged motor operated with all accessories, auxiliaries including terminal connectors, Marshalling boxes and first fill of vacuum including support structures complete.	NO	250530

**Material /Equipment rates for 220 KV & 132 KV Substation & Lines**  
**(Cost Data 2025-2026)**

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>INSTRUMENT TRANSFORMERS</b>				
<b>Current Transformers (CTs)</b>				
1	4000000235	220 KV CT (2400-1600-800/1-1-1-1-1 A) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.( 31 mm/Kv)	NO	414030
2	4000000385	220 KV CT (1600-800-500/1-1-1-1-1 A) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25 mm/Kv)	NO	359930
3	4000000440	220 KV CT (1600-800-500/1-1-1-1-1 A) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	368480
4	4000000569	220 KV CT of ratio 50/1A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	303680
5	4000001070	220 KV CT of ratio 100/1A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	303680
6	4000001071	220 KV CT of ratio 150/1 A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	303680
7	4000000184	220 KV CT of ratio 200/1 A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	303680
8	4000000250	220 KV CT of ratio 300/1A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	303680
9	4000000255	220 KV CT of ratio 400/1A(Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	303680
10	4000000580	220 KV CT of ratio 50/1A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	303680
11	4000000581	220 KV CT of ratio 100/1A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	303680
12	4000000582	220 KV CT of ratio 150/1 A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	303680

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
13	4000000585	220 KV CT of ratio 200/1 A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.( 31 mm/Kv)	NO	303680
14	4000000586	220 KV CT of ratio 300/1A (Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.( 31 mm/Kv)	NO	303680
15	4000000590	220 KV CT of ratio 400/1A(Metering) (Isc=50KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	303680
16	4000000379	132 KV CT (1200-600-400/ 1-1-1-1 A) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25 mm/Kv)	NO	179750
17	4000000444	132 KV CT (1200-600-400/ 1-1-1-1 A) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT..(31 mm/Kv)	NO	179750
18	4000000266	132 KV CT of ratio 50/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	136680
19	4000000909	132 KV CT of ratio 75/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	136680
20	4000000267	132 KV CT of ratio 100/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	136680
21	4000000270	132 KV CT of ratio 125/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	136680
22	4000000271	132 KV CT of ratio 150/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	136680
23	4000000593	132 KV CT of ratio 200/1 A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	136680
24	4000000592	132 KV CT of ratio 300/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(25mm/kv)	NO	136680
25	4000000594	132 KV CT of ratio 50/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	136680

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
26	4000000600	132 KV CT of ratio 75/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	136680
27	4000000596	132 KV CT of ratio 100/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	136680
28	4000000597	132 KV CT of ratio 125/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	136680
29	4000000598	132 KV CT of ratio 150/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	136680
30	4000000606	132 KV CT of ratio 200/1 A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	136680
31	4000000601	132 KV CT of ratio 300/1A (Metering) (Isc=40KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	136680
32	4000000384	33 KV CT (2000-1000-600-400/1-1-1) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT. (25 mm/Kv)	NO	69430
33	4000000445	33 KV CT (2000-1000-600-400/1-1-1) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for CT.(31 mm/Kv)	NO	76400
34	4000000382	33 KV CT (600-400/1-1 A) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT.(25 mm/Kv)	NO	37350
35	4000000449	33 KV CT (600-400/1-1 A) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT..(31 mm/Kv)	NO	39150
36	4000000286	33 KV CT of ratio 50/1A (Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (25mm/kv )	NO	31950
37	4000000291	33 KV CT of ratio 100/1A,(Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (25mm/kv )	NO	31950
38	4000000294	33 KV CT of ratio 125/1A,(Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (25mm/kv )	NO	31950
39	4000000306	33 KV CT of ratio 150/1A,(Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (25mm/kv )	NO	31950

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
40	4000000307	33 KV CT of ratio 200/1A,(Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (25mm/kv )	NO	31950
41	4000000642	33 KV CT of ratio 50/1A (Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (31 mm/kv )	NO	31950
42	4000000648	33 KV CT of ratio 100/1A,(Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (31 mm/kv )	NO	31950
43	4000000652	33 KV CT of ratio 125/1A,(Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (31 mm/kv )	NO	31950
44	4000000653	33 KV CT of ratio 150/1A,(Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (31 mm/kv )	NO	31950
45	4000000656	33 KV CT of ratio 200/1A,(Metering) (Isc=31.5KA for 1 sec) including first fill of Transformer oil and all accessories,auxillaries and terminal connectors for CT. (31 mm/kv )	NO	31950

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>II</b>	<b>Potential Transformers (PTs)</b>			
46	4000000616	220 KV PT 3 winding including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for PT(25 mm/Kv)	NO	291300
47	4000000450	220 KV PT 3 winding including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for PT(31mm/kv)	NO	291300
48	4000000416	132 KV PT 3 winding including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for PT(25 mm/Kv)	NO	126970
49	4000000451	132 KV PT 3 winding including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for PT(31mm/kv)	NO	135130
50	4000001025	33 KV PT 2 winding including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for PT(25mm/Kv)	NO	35480
51	4000000454	33 KV PT 2 winding including first fill of Transformer oil and all accessories, auxillaries and terminal connectors for PT(31 mm/Kv)	NO	44500
52	4000003460	220KV Metering PT (25 mm/Kv)	NO	292500
53	4000000455	220KV Metering PT (31 mm/Kv)	NO	297900
54	4000000409	132KV Metering PT (25 mm/Kv)	NO	127190
55	4000000462	132KV Metering PT(31 mm/Kv)	NO	138380
56	4000000082	33KV Metering PT (25 mm/Kv)	NO	34200
57	4000000463	33KV Metering PT (31 mm/Kv)	NO	36000
<b>III</b>	<b>CVTs</b>			
58	4000000602	220 KV CVT (3 winding) including first fill of Transformer oil and all accessories auxillaries and terminal connectors for CVT.(Porcelein Housing) (25 mm/Kv)	NO	179950
59	4000000464	220 KV CVT (3 winding) including first fill of Transformer oil and all accessories auxillaries and terminal connectors for CVT.(Porcelein Housing) (31 mm/Kv)	NO	179950
60	4000000387	132 KV CVT (2 winding) including first fill of Transformer oil and all accessories auxillaries and terminal connectors for CVT.(Porcelein Housing)(25 mm/Kv)	NO	169000
61	4000000465	132 KV CVT (2 winding) including first fill of Transformer oil and all accessories auxillaries and terminal connectors for CVT.(Porcelein Housing)(31 mm/Kv)	NO	169000
62	4000000749	220KV PT /CVT Marshalling box	NO	7820
63	3000000703	132 KV PT /CVT Marshalling box	NO	7820
64	3000000711	33 KV PT /CVT Marshalling box	NO	7820
65	4000000589	220 KV CT Marshalling boxes	NO	5870
66	4000001965	132 KV CT Marshalling boxes	NO	5870
67	3000004906	33 KV CT Marshalling boxes	NO	5870
68	4000002246	220KV Bay Marshalling Box	NO	30430
69	3000001821	132 KV Bay Marshalling Box	NO	30430

### HTLS Conductor and Accessories

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
1	4000001404	HTLS Non Metallic core conductor Equivalent to ACSR Wolf conductor	KM	765,000.00
2	40000000872	HTLS Non Metallic core conductor Equivalent to ACSR Panther conductor	KM	934,399.00
3	40000000871	HTLS Non Metallic core conductor Equivalent to ACSR Zebra conductor	KM	1261100
4	4000001407	HTLS Non Metallic core conductor Equivalent to ACSR Moose Conductor	KM	1348600
<b>I</b>		<b>LINE HARDWARE for HTLS Non-Metallic core conductor Equivalent to ACSR Wolf conductor</b>		
5	4000002773	Single Suspension String suitable for single HTLS Conductor	SET	11250
6	4000002811	Single Suspension Pilot String for Single HTLS Conductor	SET	6260
7	4000002938	Single Tension String for Single HTLS Conductor	SET	61000
8	4000002982	Double Suspension String suitable for single HTLS Conductor	SET	11380
9	4000003021	Double Tension String suitable for single HTLS Conductor	SET	67810
10	3000000618	Mid Span Compression joint for HTLS Conductor	NO.	64230
11	3000000619	Repair Sleeve for HTLS Conductor	NO.	758
12	3000000632	Compression type T-Connector for HTLS Conductor	NO.	44600
13	3000000622	Jumper Terminal for HTLS Conductor	NO.	8920
14	3000000623	Vibration Damper for HTLS Conductor	NO.	2740
<b>II</b>		<b>LINE HARDWARE for HTLS Non-Metallic core conductor Equivalent to ACSR Panther conductor</b>		
15	4000001902	Single Suspension String suitable for single HTLS Conductor	SET	7970
16	4000002812	Single Suspension Pilot String for Single HTLS Conductor	SET	6550
17	4000001904	Single Tension String for Single HTLS Conductor	SET	50010
18	4000001905	Double Suspension String suitable for single HTLS Conductor	SET	13050
19	4000002006	Double Tension String suitable for single HTLS Conductor	SET	58630
20	3000000349	Mid Span Compression joint for HTLS Conductor	NO.	60260
21	3000000351	Repair Sleeve for HTLS Conductor	NO.	936
22	3000000631	Compression type T-Connector for HTLS Conductor	NO.	3080
23	3000000620	Jumper Terminal for HTLS Conductor	NO.	2360
24	3000000352	Vibration Damper for HTLS Conductor	NO.	2860

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
<b>III</b>		<b>LINE HARDWARE for HTLS Non Metallic core conductor Equivalent to Zebra</b>		
25	4000001747	Single Suspension String suitable for single HTLS Conductor	SET	13100
26	4000003083	Single Suspension Pilot String for Single HTLS Conductor	SET	8200
27	4000001816	Single Tension String for Single HTLS Conductor	SET	56880
28	4000001831	Double Suspension String suitable for single HTLS Conductor	SET	15480
29	4000001901	Double Tension String suitable for single HTLS Conductor	SET	63070
30	4000003172	Single Suspension String suitable for twin HTLS Conductor	SET	19450
31	4000003176	Single Suspension Pilot String suitable for twin HTLS Conductor	SET	13190
32	4000003178	Double Suspension String suitable for twin HTLS Conductor	SET	21110
33	4000003180	Double Tension String suitable for twin HTLS Conductor	SET	121400
34	3000000343	Mid Span Compression for HTLS Conductor	NO.	73170
35	3000000344	Repair Sleeve for HTLS Conductor	NO.	1680
36	3000000635	Compression type T-Connector for HTLS Conductor	NO.	5040
37	3000000639	Jumper Terminal for HTLS Conductor	NO.	2110
38	3000000345	Vibration Damper for HTLS Conductor	NO.	2570
39	3000000671	Rigid Spacer for Twin HTLS Conductor	NO.	4580
<b>IV</b>		<b>LINE HARDWARE for HTLS Non Metallic core conductor Equivalent to Moose</b>		
40	4000003062	Single Suspension String suitable for single HTLS Conductor	SET	35680
41	4000003145	Single Suspension Pilot String for Single HTLS Conductor	SET	28260
42	4000003147	Single Tension String for Single HTLS Conductor	SET	115440
43	4000003164	Double Suspension String suitable for single HTLS Conductor	SET	65420
44	4000003167	Double Tension String suitable for single HTLS Conductor	SET	126000
45	4000003168	Single Suspension String suitable for twin HTLS Conductor	SET	36380
46	4000003173	Single Suspension Pilot String suitable for twin HTLS Conductor	SET	65140
47	4000003177	Double Suspension String suitable for twin HTLS Conductor	SET	72460

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
48	4000003179	Double Tension String suitable for twin HTLS Conductor	SET	126000
49	3000000624	Mid Span Compression for HTLS Conductor	NO.	77400
50	3000000626	Repair Sleeve for HTLS Conductor	NO.	1350
51	3000000634	Compression type T-Connector for HTLS Conductor	NO.	10260
52	3000000636	Jumper Terminal for HTLS Conductor	NO.	10260
53	3000000627	Vibration Damper for HTLS Conductor	NO.	4680
54	3000000670	Rigid Spacer for Twin HTLS Conductor	NO.	2700
<b>IV</b>		<b>SUBSTATION HARDWARE suitable for HTLS metallic core conductor equivalent to Moose</b>		
55	3000000672	Terminal Connector for ISO pad to Single HTLS Conductor	NO.	23790
56	3000000674	Terminal Connector for CT stud to Single HTLS Conductor	NO.	23790
57	3000000675	Terminal connector for CB pad to Single HTLS conductor	NO.	23790
58	3000000676	BPI Clamp for Single HTLS Conductor	NO.	38660
59	3000000678	Terminal Connector for CT Stud to Twin HTLS Conductor	NO.	23790
60	3000000679	Terminal Connector for ISO pad to Twin HTLS Conductor	NO.	23790
61	3000000680	Terminal connector for CB pad to twin HTLS conductor	NO.	23790
62	3000000682	BPI Clamp for Twin HTLS Conductor	NO.	38660
63	3000000683	Compression type TEE connector for Twin HTLS Conductor to Single HTLS Conductor	NO.	41630

## SUBSTATION MATERIAL

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight
1	4000000940	Diesel Generator Set-15KVA	NO	308070
2	4000000864	Diesel Generator Set-25KVA	NO	409500
3	4000003850	100KVA 33/0.4KV Station Transformer	NO	230620
4	4000003860	250KVA 33/0.4KV Station Transformer	NO	336600
5	4000003911	LTAC Panel (upto 16A 1-Ph-16 No.s, 3-ph cum Neutral 63 A-8 No.s, 2 No.s 3-ph 300A MCBs, 1 No.incomer 500A MCB)	NO	174510
6	4000000617	220KV PTDB panel for Double bus system along with change over switch	NO	129260
7	4000000418	132KV PTDB Panel for Double/Single bus system along with change over switch	NO	164500
8	3000000573	LT Distribution box with MCCB	NO	15300
9	4000002809	132/33KV PT Distribution box	NO	39210
10	50000288	CO2 portable fire extinguishers of 15 Lbs capacity without trolley and hose pipe	NO	6190
11	3000000708	CO2 with water type portable fire extinguishers with horn and hose pipe (50 ltrs)	NO	2110
12	5000000274	Rubber mats (size 6'x3'x10mm)	NO	1030
13	4000000004	Supply of lighting pillar box in the Switch yard	NO	11030
14	40000442	U Bolts 16mm	NO	175
15	40000441	U Bolts 20mm	NO	220
16	3000002635	Supply and fixing of portable emergency rechargeable twin tube fittings of 20W capacity make Bajaj/ Panasonic	NO	1200
17	500000003	Supply and fixing of filled sand bucket set complete (4 Nos.. buckets)	NO	847
18	50000129	SUPPLY AND FIXING OF GLOW SIGN BOARD of size 12x4 / 10x4 inches including transport to site and labour charges for fixing etc., complete finished item of work	NO	9600
19	50000001	Supply of MDF(Medium density fibre) boards with 12 mm thick 3' X 4' size with teakwood beading and painting with two coats of white paint and drawing of SS single line diagram with various colours.	NO	5000
20	2000000051	Supply and fixing of Wall clock .	NO	500
21	50000256	Supplying of earth rods for earthing purpose during shutdowns	NO	283

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Frieght
22	5000000505	Supplying of Vacumm cleaner of Standard make (Eureka forbes) for cleaning panels	NO	15000
23	4000000640	CT operated electronic energy Meter for station Transformer	NO	15750
<b>Clamps and connectors</b>				
24	3000002210	Aluminium alloy 3 bolted PG clamps for Dog Conductor	NO	629
25	3000000274	Aluminium alloy 3 bolted PG clamps for Bear Conductor	NO	602
26	3000000276	Aluminium alloy 3 bolted PG clamps for Zebra toMoose Conductor	NO	541
27	3000000277	Aluminium alloy 3 bolted PG clamps for Moose Conductor	NO	541
28	3000000278	Aluminium alloy 3 bolted PG clamps for Panther Conductor	NO	591
29	3000000279	Aluminium alloy 3 bolted PG clamps for Zebra Conductor	NO	541
30	3000000280	Aluminium alloy 3 bolted PG clamps for Bear to Panther Conductor	NO	661
31	3000000281	Aluminium alloy 3 bolted PG clamps for AAAC Conductor	NO	661
32	4000000414	Hangers for P type towers	NO	686
33	3000000282	Hangers for 'A' type tower	NO	750
34	4000000559	D-Shackles (20 mm)	NO	261
35	4000002005	D-Shackles (16 mm)	NO	198
36	3000000283	spacer clamps for twin moose with T-off zebra with 150mm spacing	NO	665
37	3000002597	T clamps for twin zebra T off single Zebra with 400mm spacing	NO	806
38	3000001974	Pad type compressor clamp for GS Earth wire to 75/12 flat	NO	102
39	3000000284	Cleat type clamp for G.S. Earth wire	NO	99
40	3000000285	T clamp for GS Earth wire	NO	348
41	3000000255	spacer clamps suitable for moose or zebra ACSR conductor with 400mm spacing for 220 KV & 132 KV	NO	578
42	3000000256	Suspension clamps suitable for twin Moose/Zebra conductor for 220 KV and 132 KV	NO	3940
43	4000001380	5 bolted type single tension h/w for single moose or zebra conductor for 220 KV & 132 KV	NO	2200
44	3000002604	3 bolted type single tension h/w for single moose conductor for 33 KV	NO	1720

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Frieght
45	3000002608	3 bolted type single tension h/w for single zebra conductor for 33 KV	NO	1720
46	3000000473	3 bolted earth wire tension clamp	SET	932
47	3000000286	post type insulator support clamps for single conductor for 33 KV	NO	688
48	3000000129	T Clamps for single Moose all three ways	NO	825
49	3000000130	T Clamps for single zebra all three ways	NO	825
50	3000000577	post type insulator support clamps for twin Moose conductor for 220 KV & 132 KV	NO	968
51	4000000760	post type insulator support clamps for twin Zebra conductor for 220 KV & 132 KV	NO	968
52	3000000000	post type insulator support clamps for single conductor for 220 KV & 132 KV	NO	590
53	3000000292	post type insulator support clamps for twin Moose conductor for 33 KV	NO	963
54	3000000293	post type insulator support clamps for twin zebra conductor for 33 KV	NO	963
55	3000004914	Pad Clamps (Zebra/Moose)	NO	583
56	3000002135	Spacer T Clamps for Twin zebra/moose	NO	575
57	3000000706	Twin Rigid Spacers for ACSR Twin moose Conductor	NO	707
58	3000000614	Bundle Spacers for ACSR Twin moose Conductor	NO	844
59	3000000612	Cross Spacer clamps for Quad moose	NO	1310
60	30000000704	Al. Alloy pad clamps for Moose	NO	391
61	3000000610	Spacer clamps for twin moose T double off twin moose jumper with 400mm spacing for Twin moose bus	NO	854

TRANSMISSION LINE ITEMS					
Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Freight	
<b>I</b>	<b>Conductors</b>				
1	4000001545	ACSR Panther Conductor		KM	198280
2	4000001547	ACSR Moose Conductor		KM	447400
3	4000003751	ACSR Zebra conductor		KM	391110
4	4000001458	7/3.15 mm HTGS Earth wire		KM	37150
<b>II</b>	<b>Bolts&amp;Nuts</b>				
5	40000463	Bolts & Nuts		TO	95660
<b>III</b>	<b>Hardware for Panther Conductor</b>				
6	4000000280	Double suspension H/W (AGS type) for Panther conductor		SET	4910
7	4000003057	Single Suspension H/W for Panther (Pilot)		SET	1350
8	4000003162	Single Suspension H/W (FAH) Panther ACSR		SET	2250
9	4000003155	Single Suspension H/W (AGS -AAH) for Panther ACSR		SET	2290
10	4000002127	Double Tension H/W for Panther ACSR		SET	4080
11	4000003174	Single Tension H/W for Panther ACSR		SET	1990
12	4000000430	Mid Span Compression joints for Panther		NO	479
13	4000003757	Vibration dampers for Panther ACSR		NO	532
14	4000002880	Armour Rods for Panther ACSR conductor		SET	639
15	4000001696	Arcing Horns for 132 KV /Panther ACSR conductor		NO	337
16	4000003013	Repair sleeves for Panther conductor		NO	212
<b>IV</b>	<b>Hardware for Moose Conductor</b>				
17	4000002126	Double Tension H/W suitable for Moose		SET	6330
18	4000003193	Single Tension H/W suitable for Moose		SET	3300
19	4000002116	Double suspension h/w (AGS type) for moose conductor		SET	5710
20	4000001350	Single Suspension H/W (FAH) for Moose		SET	3890
21	4000003171	Single Suspension H/W (AAH type) for Moose		SET	3950
22	4000003143	Single Suspension H/W suitable for Moose (Pilot)		SET	1530
23	4000002621	Mid Span Compression joints for Moose		NO	1130
24	3000000254	Armour Rods for Moose ACSR conductor		NO	1920
25	3000000263	Arcing Horns for Single suspension Moose		NO	361
26	3000000265	Arcing Horns for Single V-Suspension Moose		NO	321
27	4000003015	Repair sleeves for Moose conductor		NO	429
28	4000003756	Vibration dampers for Moose conductor		NO	999
29	4000000432	220 KV Single suspension hardware for Twin Moose		NO	4160
30	4000001360	220 KV Double Suspension Hardware for Quadruple Moose		SET	8490
31	4000001361	220 KV Double tension hardware for Twin moose		SET	11630
32	4000001363	220 KV Double tension hardware for quadruple moose		SET	13580
33	3000002283	5 bolted twin zebra tension or moose h/w 400mm spacing for 132/220 KV bus		NO	3940

Sl. No.	SAP Material Code	Material Description	UOM	Ex-Works Price(Rs.) without GST and Frieght
35	3000000270	spacer clamps with 150mm spacing for twin moose	NO	285
36	3000000271	spacer clamps for twin moose with 400mm spacing	NO	600
37	3000002593	3 bolted tension hardware for twin moose with 150mm spacing to 33 KV bus	NO	3260
38	3000005202	T clamps for twin moose to single moose with 150mm spacing	NO	672
39	3000000245	132KV Double Tension H/W suitable for Twin Moose	NO	4230
40	4000000452	132KV Single Suspension H/W suitable for Twin Moose	SET	4260
41	3000000707	132KV,33KV Single Pilot hardware for Twin Moose	NO	4950
43	4000003166	220KVSingle Suspension Hardware for ACSR Twin Moose conductor (Pilot)	SET	14330
<b>V</b>	<b>Hardware for Zebra Conductor</b>			
44	4000002118	Double suspension h/w (AGS type) for Zebra conductor	SET	5820
45	4000003159	Single Suspension H/W (AGS with FAH type) Zebra	SET	2750
46	4000003158	Single Suspension H/W (AAH type) for Zebra	SET	3100
47	4000003144	Single Suspension H/W for Zebra (Pilot type)	SET	1560
48	4000003175	Single Tension H/W for Zebra ACSR	SET	2560
49	4000002129	Double Tension H/W suitable for Zebra ACSR	SET	5200
50	4000002625	Mid Span Compression joints for Zebra ACSR	NO	891
51	4000000024	Vibration dampers for Zebra ACSR	NO	859
52	3000001483	Armour Rods for Zebra ACSR conductor	SET	1280
53	4000003025	Repair sleeves for Zebra conductor	SET	327
<b>VI</b>	<b>Hardware for 7/3.15 mm HTGS Earth wire</b>			
54	4000003537	Tension hardware with earth bond (7/3.15 mm)	NO	811
55	4000003381	Suspension hardware with earth bond (7/3.15 mm)	SET	886
56	4000002623	Midspan compression Joints for earthwire (9.45mm)	NO	122
57	40000443	GI Flexible Earth bonds	NO	383
<b>VII</b>	<b>Tower accessories</b>			
58	3000000227	Number Plates	NO	208
58	3000001525	Phase Plates	SET	244
59	40000102	Danger Boards for SS	NO	231
59	40000212	Danger Boards for Line	NO	231
60	40000206	Anti Climbing devices	NO	3130
61	4000002300	Bird Guards	NO	228
62	3000004978	Circuit Boards	NO	246

# **PRICES FOR SUPPLY OF TELECOM MATERIALS**

ANNEXURE-C		
Prices for Supply of Telecom materials		
Sl.No.	Schedule No.	Description
1	1	Prices for supply of telecom (Line & Substation)
NOTE: FREIGHT@ 2% ARE EXTRA		

**ANNEXURE-C**

**PRICES FOR SUPPLY OF TELECOM MATERIAL**

<b>Sl.No</b>	<b>Material Code</b>	<b>Description</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
		<b>OPGW, UG OFC &amp; associated equipment</b>		
1	4000002784	OPGW 24F of DWSM type cable	KM	125000.00
2	4000000048	OPGW 48 F of DWSM type cable	KM	163540.00
3	4000001190	OPGW 96 F of DWSM type cable	KM	256310.00
4	4000003383	Suspension assembly (Grounding clamps are part of Suspension assembly) for 24F/48F/96F OPGW Cable	SET	1580.00
5	4000002788	Tension assembly (Dead end clamps and Grounding clamps are part of Tension assembly) for 24F/48F/96F OPGW Cable (UoM 1 NO = 1SET)	NO	1800.00
6	4000003754	Vibration Dampers for 24F/48F/96F OPGW Cable	NO	472.00
7	4000002138	Down Lead Clamps for 24F/48F/96F OPGW Cable	NO	156.00
8	4000003940	24F Splice Boxes (OPGW- OFAC) - 2 Way	NO	5920.00
9	4000003941	24F Splice Boxes (OPGW- OPGW) - 2 Way	NO	5920.00
10	3000001636	24 F Splice Boxes (OPGW- OPGW - OPGW) - 3 WAY	NO	6200.00
11	3000002648	24 F Splice Boxes (OPGW- OPGW - OPGW- OPGW ) - 4 WAY	NO	6400.00
12	3000002002	48F Splice Boxes( OPGW-OFAC) – 2 Way	NO	6250.00
13	3000002006	48F Splice Boxes (OPGW-OPGW) – 2 Way	NO	6250.00
14	3000002240	48F Splice Boxes ( OPGW-UG OFC) – 2 Way	NO	6250.00
15	3000001990	48F Splice Boxes (OPGW- OPGW –OPGW- OPGW ) – 4 Way	NO	7200.00
16	3000001632	48F Splice Boxes (OPGW- OPGW - OPGW) - 3 WAY	NO	6500.00
17	3000001640	48F Splice Boxes (OPGW- OPGW - UG OFC ) - 3 WAY	NO	6500.00
18	3000000428	96F Splice Boxes( OPGW-OFAC) – 2 Way	NO	6800.00
19	3000000430	96F Splice Boxes (OPGW-OPGW) – 2 Way	NO	6800.00

Sl.No	Material Code	Description	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
20	3000000432	96F Splice Boxes ( OPGW-UG OFC) – 2 Way	NO	6800.00
21	3000000434	96F Splice Boxes (OPGW- OPGW –OPGW-OPGW ) – 4 Way	NO	7900.00
22	3000000435	96F Splice Boxes (OPGW- OPGW - OPGW) - 3 WAY	NO	7100.00
23	3000000436	96F Splice Boxes (OPGW- OPGW - UG OFC ) - 3 WAY	NO	7100.00
24	3000000447	Fibre Distribution panels for termination of Fibres with connectors of <b>48F</b> capacity <b>along with FODP rack of dimension 1800X600X600 mm(H xW x D)</b> with FCPC Coupling and pigtails of any standard make	NO	57300.00
25	3000000448	Fibre Distribution panels for termination of Fibres with connectors of <b>96F</b> capacity <b>along with FODP rack of dimension 1800X600X600 mm(H xW x D)</b> with FCPC Coupling and pigtails of any standard make	NO	69100.00
26	3000000083	Fibre Distribution panels for termination of Fibres with connectors of <b>48F</b> capacity (FODP 48F: Indoor type, rack mountable with FCPC Coupling and pigtails) of any standard make	NO	25000.00
27	3000002753	Fibre Distribution panels for termination of Fibres with connectors of <b>96F</b> capacity (FODP 96F: Indoor type, rack mountable with FCPC Coupling and pigtails) of any standard make	NO	45690.00
28	3000000721	Fibre Distribution panels for termination of Fibres with connectors of <b>24F</b> capacity (FODP 24F: Indoor type, rack mountable with FCPC Coupling and pigtails) of any standard make	NO	17500.00
29	4000002252	Fibre Distribution panels for termination of Fibres with connectors of <b>12F</b> capacity (FODP 12F: Indoor type, rack mountable with FCPC Coupling and pigtails) of any standard make	NO	12250.00
30	4000002251	Fibre approach cable (OFAC) <b>24 Fibres</b> of DWSM type <b>with 40/33 mm HDPE pipe along with Rope</b> , suitable for laying in Ducts/Trenches ( 40/33 mm PLB HDPE Pipe make: M/s Duraline / M/s JAIN or any standard make preferred)	KM	107800.00

Sl.No	Material Code	Description	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
31	4000000038	Fibre approach cable (OFAC) <b>48 Fibres</b> of DWSM type <b>with 40/33 mm HDPE pipe along with Rope</b> , suitable for laying in Ducts/Trenches ( OFAC Make: M/s HFCL, M/s ZTT, M/s TTL or any standard make preferred) ( 40/33 mm HDPE Pipe make: M/s Duraline / M/s JAIN or any standard make preferred)	KM	147290.00
32	4000001191	Fibre approach cable (OFAC) <b>96 Fibres</b> of DWSM type <b>with 40/33 mm HDPE pipe along with Rope</b> , suitable for laying in Ducts/Trenches ( OFAC Make: M/s HFCL, M/s ZTT, M/s TTL or any standard make preferred) ( 40/33 mm HDPE Pipe make: M/s Duraline / M/s JAIN or any standard make preferred)	KM	220000.00
33	4000001199	Fibre approach cable (OFAC) <b>24 Fibres</b> of DWSM type	KM	100000.00
34	4000001195	Fibre approach cable (OFAC) <b>48 Fibres</b> of DWSM type	KM	120000.00
35	4000000063	Under ground OF Cable unarmoured 48F DWSM type	KM	106700.00
36	4000001185	Under ground OF Cable unarmoured 96F DWSM type	KM	178350.00
37	3000001497	Splice Boxes 48F U/G (Joint closures)	NO	8940.00
38	3000000408	Splice Boxes 96F U/G (Joint closures)	NO	13200.00
39	3000000861	PLB HDPE DUCT of 40/33 mm dia of standard Make ( 40/33 mm HDPE Pipe make: M/s Duraline / M/s JAIN or any standard Make preferred)	KM	89900.00
40	3000001300	RCC Chambers (850/800 /50 ) mm W/L/T with base and top plates	NO	6770.00
41	4000002257	Fibre optic cable of ADSS type with DWSM, 24 fibre capacity.	KM	137720.00
42	3000001535	Suspension clamp sets (grounding clamps are part of suspension assembly) for 24F ADSS Cable	SET	1400.00
43	3000001566	Tension clamp sets (dead end clamps and grounding clamps are part of tension assembly) for 24F ADSS Cable	SET	1120.00
44	3000001495	Splice boxes (ADSS-OFAC) for 24F ADSS Cable	NO	5100.00

<b>Sl.No</b>	<b>Material Code</b>	<b>Description</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
45	3000001496	Splice boxes (ADSS-ADSS) for 24F ADSS Cable	NO	5100.00
46	3000000246	Vibration Dampers Assembly for 24F ADSS Cable	NO	450.00
47	3000002678	Supply of 110mm dia(10 mm thickness) HDPE Pipe	M	412.00
48	3000004295	GI Pipe 100mm (Nominal bore ) medium class ( incl.access)	M	787.00
49	50000015	RCC hume Pipe (NP3), 100mm dia ( inside)	M	292.00
50	3000000133	19U Rack of size (1800X600X600)	NO	40000.00
		<b>OFC SS &amp; associated Equipment</b>		
51	3000002755	SDH Base Equipment (STM-4 MADM) for 3 MSP Protected directions( Common cards, Cross connect /control cards, Optical base card, Power Supply cards, power cabling, other hardware & accessories including sub-racks, patch cords, DDF etc. fully equipped.	NO	349890.00
52	3000000325	SDH Base Equipment (STM-4 MADM) for 5 MSP protected directions( Common cards, Cross connect /control cards, Optical base card, Power Supply cards, power cabling, other hardware & accessories including sub-racks, patch cords, DDF etc. fully equipped.	NO	495000.00
53	3000001934	S4.1 SFPs for OLTEs	NO	1200.00
54	3000001938	S4.2 SFPs for OLTEs	NO	7000.00
55	3000001914	L4.1 SFPs for OLTEs	NO	1800.00
56	3000001922	L4.2 SFPs for OLTEs	NO	8620.00
57	3000001926	L4.2e SEPs for OLTEs(Up to 100kM)	NO	15520.00
58	3000001930	V4.2 SEPs for OLTEs(Up to 120kM)	NO	23270.00
59	3000002756	Optical Interface card(Support minimum 150kMs) along with Suitable SFP	NO	174000.00
60	3000002757	E1 Interface card(Min 16 Interfaces per card)	NO	33600.00
61	2000000002	Ethernet Interfaces 10/100Mbps with Layer-2 Switching(Min.8 Interfaces per card)	NO	73200.00

Sl.No	Material Code	Description	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
62	3000001494	Equipment Cabinets for SDH Equipment Drop/Insert MUX Equipments and DACS Equipment	NO	59400.00
63	3000001666	VOIP SIP Enabled Instruments along with 48V to 5V DC-DC Converter	NO	6000.00
64	3000001166	Mandatory spares for SDH Equipment(STM-4 MADM up to 3/5 MSP Protected Directions)which includes Common cards, Cross Connect/Control Cards, Optical Base Card, Power Supply Cards, Power Cabling, other hardware & accessories (each)	NO	288000.00
65	4000000885	Supply of Digital Protection panel of size 1800mm X 600mm X 600mm housing Digital Tele Protection Signalling equipment having 8 commands ( 8 inputs + 8 outputs) as per technical specification attached.	NO	285000.00
66	3000001433	Mandatory spare set for Digital tele protection signalling equipment( One module for each type) 8 commands	SET	175000.00
67	7000000068	Laptop PC for configuration of remote OLTE,MUX, Digital Teleprotection equipment with necessary software	NO	67320.00
68	5000000310	Optical Time Domain Reflector ( OTDR) along with standard accessories of latest model with <b>46/45 dB dynamic range</b> alongwith Fiber Inspection Scope wireless type (Supporting with OTDR & Other divices) for all interface FC/SC/LC including Tips & Bulkhead	NO	525000.00
69	5000000255	Optical Time Domain Reflector ( OTDR) along with standard accessoriesof latest model with <b>39/38dB dynamic range</b> alongwith Fiber Inspection Scope wireless type (Supporting with OTDR & Other divices) for all interface FC/SC/LC including Tips & Bulkhead	NO	300000.00
70	5000000046	Fusion Splicing Machine (FSM) along with standard accessories of latest model	NO	190000.00
71	3000001165	Optical Power Meter	NO	38250.00
72	4000000427	Optical Light Source	NO	70000.00

Sl.No	Material Code	Description	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
73	3000001126	OFC tool kit consisting of Fibre stripping tools for cutting and stripping of sheathing, jacket armouring of OFAC/ADSS/OPGW cables including two binoculars ( <b>M/s FiS Solutions make is preffered</b> )	SET	95000.00
74	3000000220	4 1/2 Digit true RMS digital Multimeter	NO	32720.00
75	5000001447	Medium Size Tool kit 1)Screw Driver with detachable bits (Taparia) 2) Spnner set 3) Cutting Piller 4) Nose plier 5) Wire Stripper 6) 25Watt Soldering Iron 8)50 Watt Soldering Iron 8) Crimping Tool 4/6/8 pin 9)3 1/2 Digit Multimeter with briefcase	SET	15410.00
76	3000001690	C37.94 card with 4 Nos SFP ports/2Nos Cards X 2Nos SFP ports along with Single mode SFPs suitable for OLTEs.	NO	185000.00
77	3000002683	Patch Cards (LC to FC/PC) type 10 Mtrs length	NO	1000.00
78	3000000449	Patch Cards (LC to FC/PC) type 20 Mtrs length	NO	1700.00
79	4000004007	Gigabit 1000Mbps Fiber to Ethernet Media Converters	NO	6660.00
80	3000000054	Cat 6 UTP Cable ( 305Mtrs) (UoM 1 NO = Box of 305Mtrs)	NO	6470.00
81	3000000445	10/100/1000Mbps Optical Media Converter 20kM Range	NO	4180.00
82	3000000446	10/100/1000Mbps Optical Media Converter 40kM Range	NO	6660.00
		<b>EPAX and Associated Equipment</b>		
83	4000002181	EPAX (16/16) with 2E1 card Wired for 128 Ports along with 4ft height Stand	NO	200440.00
84	3000001432	Mandatory spare set for EPAX (16/16) with E1 Card (One module for each type)	NO	73330.00
85	7000000102	EPB Telephones ( Make: Panasonic, Beetel,BPL, or any standard make Preferred)	NO	850.00
86	4000001416	6 pair PVC copper telephone Cable	KM	37640.00
87	4000003114	Single pair PVC copper telephone Cable	M	7.00
88	3000005321	20 pair Armoured jelly filled copper telephone Cable	KM	155000.00
89	4000000067	10 pair Armoured jelly filled copper telephone Cable	KM	81080.00

Sl.No	Material Code	Description	UOM	Ex-works price for the year 2025-26 (in Rs.) without GST & Freight
		<b>48V Battery Chargers, Batteries and associated equipment</b>		
90	4000001312	48 V / 100 A Float cum Boost charger (1+0)with DCDB&ACDB ( <b>Three Phase</b> )	NO	350000.00
91	4000001354	48V/400 AH SMF VRLA Battery set (1+0)	SET	165000.00
92	4000001359	48 V / 50 A Float cum Boost charger (1+1)with DCDB&ACDB ( <b>Three Phase</b> )	SET	250000.00
93	4000001178	48 V / 50 A Float cum Boost charger (1+0)with DCDB&ACDB ( <b>Three Phase</b> )	NO	210000.00
94	4000001315	48V/250AH SMF VRLA Battery set(1+0) (UoM 1 NO = 1SET)	NO	120000.00
95	4000001351	48V/35A Float cum Boost Charger (1+1) with DCDB&ACDB in separate panel ( <b>ThreePhase</b> )	SET	240000.00
96	4000001171	48V/35A Float cum Boost Charger (1+0) with DCDB&ACDB in separate panel ( <b>Three Phase</b> )	NO	200000.00
97	4000001333	48V/200AH SMF VRLA Battery set(1+0) (UoM 1 NO = 1SET)	NO	105000.00
98	4000000860	25 Sqmm Battery cable	KM	320000.00
99	4000000098	10 Sq mm Multistand Copper AC Supply Cables for 48V/100A Battery Charger	KM	125000.00
100	4000001374	6 Sq mm Multistand Copper AC Supply Cables for 48V/50A /35A Battery Charger	KM	75000.00
101	4000000523	2.5 Sq mm, 2 core unarmoured multistand copper cable	KM	As per Electrical SSR rate
102	4000001198	2.5 Sq mm, 4 core unarmoured multistand copper cable	KM	
		<b>PLCC &amp; associated Equipment</b>		
103	3000001280	Single channel PLCC terminals ( 20 W)	NO	280000.00
104	3000001482	Mandatory spare set for Single channel PLCC terminals	SET	240000.00
105	3000001414	Analog Tele Protection Couplers with 4 Commands	NO	109600.00
106	3000002382	Mandatory spare set for Analog Tele protection coupler	SET	96800.00
107	3000001227	Phase to Phase coupling units(LMDU)	NO	98000.00

<b>Sl.No</b>	<b>Material Code</b>	<b>Description</b>	<b>UOM</b>	<b>Ex-works price for the year 2025-26 (in Rs.) without GST &amp; Freight</b>
108	3000001219	Phase to Ground coupling units(LMU)	NO	72000.00
109	4000000161	2000A/1.0 mH Wavetraps along with pedestal mounting and insulator stack.	NO	1288140.00
110	4000001166	3150A/1.0 mH Wavetraps along with pedestal mounting and insulator stack. (Isc: 63KA/sec) and (Isc: 50KA/sec)	NO	1970000.00
111	4000000169	1250A/0.5 mH Wavetraps along with Pedastal mounting and insulator stack.	NO	518140.00
112	3000002248	FSK Modem	NO	90200.00
113	4000000167	125 Ohms Coaxial Cable	KM	109010.00
114	4000000639	Signal Level Meter & Oscilltor (Electronika make ET-91 Model)	NO	1124480.00
		<b>AC unit</b>		
115	7000000277	1.5 TR 5 Star capable of delivering 18000 BTU/hr and above with operating on refrigerant R-32 / R-410 Makes : Daikin / Toshiba / Carrier / Blue Star / Hitachi	NO	As per Common SoR Govt of Telangana
116	5000001386	Supply of 4 KVA Stabilizer Makes : V-Guard / Real Guard / Uni Stab /ITL	NO	

**PRICES FOR ERECTION  
WORKS OF  
400KV/220KV/132KV/ 33KV  
SUB STATION AND  
TRANSMISSION LINES**

ANNEXURE D		
STANDARD SCHEDULE OF RATES FOR ERECTION OF 400KV,220KV 132KV AND 33KV WORKS FOR THE YEAR 2025-26		
SI.No.	ANNEXURE	Description
1	ANNEXURE – (I)	ERECTION OF 400KV TRANSMISSION LINES
2	ANNEXURE – (II)	ERECTION OF 220KV & 132KV TRANSMISSION LINES
3	ANNEXURE – (III)	ERECTION OF 400KV SUBSTATIONS
4	ANNEXURE – (IV)	ERECTION OF 220KV, 132KV 33KV SUBSTATIONS
5	ANNEXURE – (V)	ERECTION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.
6	ANNEXURE – (VI)	TRANSPORTATION, HANDLING CHARGES INVOLVED DURING ERECTION OF 400KV TRANSMISSION LINES
7	ANNEXURE – (VII)	HANDLING CHARGES OF EQUIPMENT & LINE MATERIAL
8	ANNEXURE – (VIII)	TRANSPORT OF PROTECTION AND CONTROL OF EQUIPMENT AND LINE MATERIALS
9	ANNEXURE – (IX)	O&M WORKS OF EHT LINES & SUBSTATIONS
10	ANNEXURE – (X)	ERECTION OF TELECOM EQUIPMENT/MATERIAL
11	ANNEXURE – (XI)	LAYING OF 132KV UG CABLE (SINGLE CIRCUIT)
12	ANNEXURE – (XII)	LAYING OF 132KV UG CABLE (DOUBLE CIRCUIT)
13	ANNEXURE – (XIII)	LAYING OF 220KV UG CABLE (SINGLE CIRCUIT)
14	ANNEXURE – (XIV)	LAYING OF 220KV UG CABLE (DOUBLE CIRCUIT)
15	ANNEXURE – (XV)	LAYING OF 220KV 2500 SQ.MM UG CABLE (SINGLE CIRCUIT)
16	ANNEXURE – (XVI)	LAYING OF 220KV 2500 SQ.MM UG CABLE (DOUBLE CIRCUIT)
17	ANNEXURE – (XVII)	ERECTION OF 400 & 220kV GIS MODULES
18	ANNEXURE – (XVIII)	ERECTION OF 132 & 33kV GIS MODULES

ANNEXURE – (I)						
STANDARD SCHEDULE RATES FOR ERECTION OF 400KV TRANSMISSION LINES						
SAP Code	Sl.No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)	
1	2	3	4	5		
C4L1-1-A	C4L1	1(a)	Preliminary Survey with GPS survey, theodolite & total station, marking route on topo sheets represents actual field conditions	km	5,340.00	
C4L2-1(B)	C4L 2	1(b)	Detailed Survey with GPS, total stations, Digital theodolite etc., along the approved alignments preparation of profiles, tower spotting, tower schedules and soil resistivity (including KML files with PLS-CADD)	km	28,550.00	
C4L3-2-A	C4L 3	2(a)	Excavation of trail pit (1mt x 1 mt x 4mt)	No.	4,330.00	
C4L3-2(B)		2(b)	Excavation of Trial Pit by Auguring & Boring of holes of 300mm Dia x 4 RM	No.	3,620.00	
C4L4-3	C4L 4	3	Check Survey, peg marking the tower positions on ground, conforming to the approved Profile and tower schedules using GPS, Total stations, Digital theodolites etc.	km	10,690.00	
C4L5-4	C4L 5	4	Setting with stub for all types of towers with stub setting template which includes erection of stubs, fixing of jacks for supporting template, alignment and leveling excluding cost of excavation and concrete (excluding transportation charges)	Set	23,170.00	
C4L6-5-A	C4L 6	5(a)	Super structure erection of all type of towers including extensions except RC towers including fitting of step bolts, danger plates, number plates, phase plates, circuit plates, bird guards, anti-climbing devices etc., and tack welding of all bolts & nuts (upto bottom cross arm level) (excluding transportation charges).	MT	12,440.00	
C4L7-5-B	C4L 7	5(b)	Erection of all types of Anchor Towers and their extensions (complete), including fitting of step bolts, danger plates, number and phase plates, circuit plates, bird guards, and anti climbing devices etc and tack welding of all bolts & nuts (upto bottom cross arm level)	MT	11,000.00	
C4L8-5-C	C4L 8	5(c)	Super structures erection of 400kV Multi circuit towers including Auxiliary cross arms (complete), including fitting of step bolts, danger plates numbers and phase plates, circuit plates, birds guards, and anti climbing devices etc and tack welding of all bolts & nuts (upto bottom cross arm level) etc.	MT	22,140.00	

ANNEXURE – (I)						
STANDARD SCHEDULE RATES FOR ERECTION OF 400KV TRANSMISSION LINES						
SAP Code	Sl.No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)	
1	2	3	4	5		
C4L9-5-D	<b>C4L 9</b>	<b>5(d)</b>	Super structure erection of River crossing towers and their extensions (complete), including all the associated works such as, earthing of all the four legs as per the approved drawing(including the cost of material),fitting of step bolts, danger plates, number and phase plates, circuit plates, bird guards, and anti climbing devices etc and tack welding of all bolts & nuts (upto bottom cross arm level)	MT	31,060.00	
	<b>C4L 10</b>	<b>6</b>	Mounting of Insulators and stringing of double circuit with twin bundled ACSR Moose Power Conductor including laying, jointing, tensioning, sagging clamping and fixing spacers (excluding transportation charges).			
C4L10-6-A		<b>6(a)</b>	Double Circuit Stringing	KM	4,94,810.00	
C4L10-6-B		<b>6(b)</b>	Single circuit Stringing	KM	3,29,870.00	
	<b>C4L 11</b>	<b>7</b>	Mounting of Insulators and stringing of double circuit with Quadruple ACSR Moose Power Conductor including laying, jointing, tensioning, sagging clamping and fixing spacers (excluding transportation charges).			
C4L11-7-A		<b>7(a)</b>	Double Circuit Stringing	KM	7,42,210.00	
C4L11-7-B		<b>7(b)</b>	Single circuit Stringing	KM	4,94,810.00	
	<b>C4L 12</b>	<b>8</b>	Mounting of Insulators and stringing of double circuit with twin bundled ACSR Moose Power Conductor including laying, jointing, tensioning, sagging clamping and fixing spacers (excluding transportation charges) for River crossing tower.			
C4L12-8-A		<b>8(a)</b>	Double Circuit Stringing	KM	12,36,060.00	
	<b>C4L 13</b>	<b>9</b>	Mounting of Insulators and stringing of double circuit line with Quadruple ACSR Moose Power Conductor (Quadruple bundled) including laying, jointing, tensioning, sagging clamping and fixing spacers (excluding transportation charges) for River crossing tower.			
C4L13-9-A		<b>9(a)</b>	Double Circuit Stringing	KM	18,54,080.00	
C4L22-12	<b>C4L 14</b>	<b>10</b>	Mounting of Insulators and stringing of Multi Circuit with twin bundled ACSR Moose Power Conductor including laying, jointing, tensioning, sagging clamping and fixing spacers (excluding transportation charges).	KM	9,89,610.00	
C4L23-13	<b>C4L 15</b>	<b>11</b>	Mounting of Insulators and stringing of Multi circuit with Quadruple ACSR Moose Power Conductor including laying, jointing, tensioning, sagging clamping and fixing spacers (excluding transportation charges).	KM	14,84,410.00	

ANNEXURE – (I)						
STANDARD SCHEDULE RATES FOR ERECTION OF 400KV TRANSMISSION LINES						
SAP Code	Sl.No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)	
1	2	3	4	5		
C4L24-14	<b>C4L 16</b>	<b>12</b>	Erection of Twin Monopole	1 MT	49,330.00	
C4L25-15	<b>C4L 17</b>	<b>13</b>	Erection supervision of twin INVAR 14TW AL/8TW AL+4.28mm/7 Invar Conductor(Double Circuit Stringing)	KM	23,130.00	
C4L14-10-A	<b>C4L 18</b>	<b>14(a)</b>	Stringing of two (2) nos. 7/3.66 mm galvanized steel earthwire, including laying jointing, tensioning etc., with necessary accessories upto the pinnacle (excluding transportation charges).	KM	23,250.00	
C4L15-10-B	<b>C4L 19</b>	<b>14(b)</b>	Stringing of one (1) no. 7/3.66 mm galvanized steel earthwire, including laying jointing, tensioning etc., with necessary accessories (excluding transportation charges).	KM	15,500.00	
C4L16-10-C	<b>C4L 20</b>	<b>14(c)</b>	Stringing of two (2) nos. 7/3.66 mm galvanized steel earthwire, including laying jointing, tensioning etc., with necessary accessories upto the pinnacle (excluding transportation charges) for River crossing towers.	KM	58,090.00	
C4L17-10-D	<b>C4L 21</b>	<b>14(d)</b>	Stringing of two (2) nos. OPG Wire, including laying jointing, tensioning etc., with necessary accessories. (excluding transportation charges).	KM	1,08,920.00	
C4L18-10-E	<b>C4L 22</b>	<b>14(e)</b>	Stringing of one (1) no. OPG Wire, including laying jointing, tensioning etc., with necessary accessories. (excluding transportation charges).	KM	72,610.00	
		<b>15</b>	Earthing of transmission towers:			
C4L19-11-A	<b>C4L 23</b>	<b>15(a)</b>	Providing of Pipe type earthing including of cost of BH coke & salt but excluding cost of earthing set	Each	6,370.00	
C4L20-11-B	<b>C4L 24</b>	<b>15(b)</b>	Counter poise earthing sets excluding cost of all materials (4sides of tower)	Each location	5,340.00	
C4L21-11-C	<b>C4L 25</b>	<b>15(c)</b>	Counter poise earthing sets using Bentoinite and salt (4 sides of tower)	Each location	8,010.00	
LNE0000116	<b>C4L 26</b>	<b>16</b>	Dismantling of Structure, all Types of Towers including Extensions except RC Towers including dismantling of Step Bolts, Danger Plates, Number Plates, Phase Plates, Circuit Plates, Bird Guards, Anti Climbing Devices etc. (excluding transportation charges) (Dismantling of existing 400KV QMDC towers part by part wise method using grinding of Bolts & Nuts ) including COP@11.765%,Mobilization efforts @5% and Uniform area allowance for line@25%)	MT	18,570.00	

**ANNEXURE - II :::: Erection of 220kV & 132kV Transmission Lines**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>		<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>
			<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	
CL1-1-N	CL1	1	Check survey to carry out the checks as per approved profiles with Digital Theodolite/total station/GPS etc. and location marking by fixing three pegs in alignment for suspension tower and by fixing five pegs in bisection for angle tower including bush cutting along the centre line of alignment and repeg marking if necessary etc. complete in all respect. Check survey including revision of profiles if required, due to ROW issues.		KM	5810
CL2-2	CL2	2	Conducting reconnoitering and preliminary survey along bee line with three alternative routes and furnishing report for selecting the best proposal for approval, including cost & conveyance of all materials, hire charges of equipment, tools and plant, preparation of drawings and reports, labour charges, complete for finished item of work as per the directions of Engineer-in-charge at site. <u>(With Theodolite / With GPS equipment ( As per Clause 4.9 of survey) /With total station equipment)</u> .		RKM	5280
	(*)	3	Detailed survey along the approved route alignment approved after conducting the preliminary survey by using modern survey equipments like GPS/ DGPS/ Total stations/ Digital theodolites including profiling, tower spotting and optimization of locations by using computer aided techniques like ALTM as well, as other activities as detailed in the scope of work using PLS-CADD software and submission of draft report for approval. a) Drawing the route profile including geographical features like Nalas, Rivers, Gardens, P&T lines, Railway crossings etc. b) Leveling of the profile with reference to Survey of India benchmarks (MSL) c) Tower Schedule d) Line Schedule e) Burge details by using ModernSurvey techniques and providing GPS, Co-ordinates at each anchor points for identification of anchor locations including permanent marks like poles, telephone lines, buildings etc. <b>(including .KML files with PLS-CADD)</b>			
CL3 -I-N	CL3	i)	Tower schedules as per tower spotting requirements plotted on reproducible tracing of profile original with one extra copy shall be given . <u>Towers Schedules should be submitted with GPS Co-ordinates.</u> <u>Identification of wind zones, collection of Hydraulic data of rivers / drains from competent authority.</u>		RKM	13430
CL4-II-N	CL4	ii)	Taking earth resistivity at an interval of 1 Km by electrical resistivity method (4 point method) or by ERM method.	Loc.		978
		iii)	Preparing of PTCC questionnaire, topo sheets extracts with marking of the proposed line. Soil resistivity report, tower sketch, station single line diagram etc. (30 copies/sets)			
CL5-3III-A	CL5	iii) a	up to 25KM	Job		5220
CL6-3III-B	CL6	iii) b	Above 25KM	Job		9560
CL7-3V	CL7	v)	Enumeration and numbering of trees, & marking on tree with white letters on yellow paint measuring girth and height of the trees and plotting in the profile. The trees enumerated shall be shown in profile on either side of centre line clearly, <u>up to required corridor for 132kV Line -27 Metres &amp; 220kV Line -35 Meters</u> indicating name of tree, girth & height. Separate tree schedule should be submitted along with the profile for arriving tree compensation amount.	Each		26

**ANNEXURE - II :::: Erection of 220kV & 132kV Transmission Lines**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>
	(1)	(2)	(3)	(4)	(5)
CL8-3-VI	CL8	vi)	Preparation of ground profiles (along with Single line Diagrams) for Railway crossing, River crossing and EHV power line crossing separately wherever required in PLS-CADD	Each crossing	3930
			The above rates shall include cost and conveyance of all materials hire charges of equipment tools & plant, preparation of profile drawing, painting of trees, labour charges, preparation of report etc., complete for finished item of work as per instructions of Engineer-in-charge.		
CL9-4	CL9	4	Excavation of trial pits of standard dimensions of 1 mtr X 1 mtr. width upto 3 mtrs. depth at 1 KM interval or wherever there is abnormal change in topography and taking observation of soil strata for classification of foundation and position of existing ground water table/depth of water in the existing open wells if any and back filling the trial pits after vetting by Departmental officials.	Each	2180
		5	<u>Setting of stubs with stub-setting template</u> : Erection of stubs, stub template, fixing of jacks for supporting template, allignment and levelling for exact location of stubs of stubsetting template, dismantling of template after completion of initial curing of C.C., movement of template from one location to other location. (A minimum lead of 1 KM is adopted).		
CL10-A	CL10	(a)	132 KV P, R & S-Type Towers	Loc.	9610
CL11-B	CL11	(b)	220 KV A, B, C & D-Type Towers	Loc.	14000
CL12-C	CL12	(c)	132 KV Multi circuit Towers	Loc.	12010
CL13-D	CL13	(d)	220 KV Multi circuit Towers	Loc.	17500
CL14-E	CL14	(e)	132kV Narrow based Multi Circuit Towers.	Single pit	11040
CL15-F	CL15	(f)	220kV Narrow based Multi Circuit Towers.	Single pit	16110
CL16-G	CL16	(g)	Pole/structure for termination of 220/132kV cables	Loc.	10810
CL17-H	CL17	(h)	220 /132 kV Narrow based tower	Loc.	15750
CL18-6-A	CL18	6(a)	Erection of tower structures, including all types of extensions except JC type towers (stub template erection and dismantling are not to be included) (including 3 mtr., 6 mtr., 9 mtr., & 12 mtr. extensions)	MT	6870
CL19-6-B	CL19	6(b)	Erection of all types of narrow based Towers / Multi circuit tower structures / narrow based multi circuit towers structures, including all types of extensions except JC type towers (stub template erection and dismantling are not to be included) (including 3 mtr., 6 mtr., 9 mtr., & 12 mtr. extensions)	MT	9620
CL20-6-C	CL20	6(c)	Erection of all types of 'JC' Type tower structures, including all types of extensions (stub template erection and dismantling are not to be included) (including '0' based, Extended and Truncated)	MT	12370
CL22-6-D	CL22	6(d)	Erection of pole/structure for 220/132 kV cable termination	MT	8250
		7-A	<u>STRINGING OF POWER CONDUCTOR:</u> Hoisting of tension insulators and Suspension insulators, paving out the conductor, rough sagging,Jointing, tensioning, clipping and fixing of preformed Armour rods and vibration dampers. measuring ground clearances wherever necessary. <u>Which excludes the works involved in the crossing of LT, 11kV &amp; 33kV power lines viz dismantling and restringing of conductor</u>		

**ANNEXURE - II :::: Erection of 220kV & 132kV Transmission Lines**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>		<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>
			<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>
CL23-N1	New		3 Nos. Wolf Conductors		RKM	32540
CL23-N2	New		6 Nos. Wolf Conductors		RKM	48810
CL23-I	CL23	(i)	3 Nos. Zebra conductors		RKM	54240
CL24-II	CL24	(ii)	6 Nos. Zebra conductors		RKM	81360
CL25-III	CL25	(iii)	1 No Panther conductor/ 2 Nos. Panther conductors		RKM	28920
CL26-IV	CL26	(iv)	3 Nos. Panther conductors		RKM	43390
CL27-V	CL27	(v)	6 Nos. Panther conductors		RKM	68700
CL28-VI	CL28	(vi)	1 No Moose conductor/ 2 Nos. Moose conductors		RKM	45800
CL29-VII	CL29	(vii)	3 Nos. Moose conductors		RKM	68700
CL30-VIII-A	CL30	(viii) (a)	6 Nos. Moose conductors		RKM	108480
CL31-VIII-B	CL31	(viii) (b)	6 Nos. Twin Moose conductors		RKM	162710
CL32-IX	CL32	(ix)	3 Nos. Bear conductors		RKM	54240
CL33-X	CL33	(x)	6 Nos. Bear conductors		RKM	81360
CL34-XI	CL34	(xi)	3 Nos. Dog conductors		RKM	32540
CL35-XII	CL35	(xii)	6 Nos. Dog conductors		RKM	51530
		7-B	STRINGING OF HTLS POWER (Non-mettalic) CONDUCTOR using tension -puller machine: Hoisting of tension insulators and Suspension insulators, paving out the conductor, rough sagging,Jointing, tensioning, clipping and fixing of preformed Armour rods and vibration dampers. measuring ground clearances wherever necessary.Which excludes the works involved in the crossing of LT, 11kV & 33kV power lines viz. dismantling and restringing of conductor.			
CL36-I-N1	New		3 Nos. Wolf Conductors		RKM	73040
CL36-I-N2	New		6 Nos. Wolf Conductors		RKM	115650
CL36-I-N	CL36	(i)	3 Nos. Moose Conductors		RKM	154200
CL37-II-N	CL37	(ii)	6 Nos. Moose Conductors		RKM	243470
CL38-III-N	CL38	(iii)	3 Nos. Zebra Conductors		RKM	121750
CL39-IV-N	CL39	(iv)	6 Nos. Zebra Conductors		RKM	182610
CL40-V-N	CL40	(v)	3 Nos. Panther Conductors		RKM	97380
CL41-VI-N	CL41	(vi)	6 Nos. Panther Conductors		RKM	154200
		7-C	STRINGING OF HTLS POWER CONDUCTOR (Metallic)using tension - puller machine: Hoisting of tension insulators and Suspension insulators, paving out the conductor, rough sagging,Jointing, tensioning, clipping and fixing of preformed Armour rods and vibration dampers. measuring ground clearances wherever necessary.Which excludes the works involved in the crossing of LT, 11kV & 33kV power lines viz dismantling and restringing of conductor.			
CL36-A-I	CL36-A	(i)	3 Nos. Moose Conductors		RKM	85880
CL37-A-II	CL37-A	(ii)	6 Nos. Moose Conductors		RKM	135590
CL38-A-III	CL38-A	(iii)	3 Nos. Zebra Conductors		RKM	67800
CL39-A-IV	CL39-A	(iv)	6 Nos. Zebra Conductors		RKM	101700
CL40-A-V	CL40-A	(v)	3 Nos. Panther Conductors		RKM	54230
CL41-A-VI	CL41-A	(vi)	6 Nos. Panther Conductors		RKM	85880
CL42: 8	CL42	8	Stringing of Earthwire: Fixing hardware, paving out earth wire, jointing, tensioning, stringing and clamping of 7/3.15 mm high tensile galvanised steel wire.		RKM	8680

**ANNEXURE - II :::: Erection of 220kV & 132kV Transmission Lines**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>		<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>
			<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>
CL43-9	CL43	9	Earthing of towers including cost of Excavation, Back-filling, including cost of 25 mm dia 2.5 mm thick, class 'C' G.I. pipe of 3.00 Mtrs length with 50X6 mm G.I. Flat 4.05 Mtrs long, <u>BH Coke</u> , Salt etc., and measuring tower footing resistance.		Nos.	5960
CL44-10	CL44	10	Slant Earthing of towers including cost of Excavation, Back-filling, including cost of 25 mm dia 2.5 mm thick, class 'C' G.I. pipe of 3.00 Mtrs length, with 50x6mm G.I. Flat of 4.05 Meters, BH Coke, Salt etc., and measuring tower footing resistance.		Nos.	5960
CL45-11	CL45	11	Earthing of towers including cost of Excavation, Back-filling, including cost of 25 mm dia 2.5 mm thick, class 'C' G.I. pipe of 3.00 Mtrs length, <u>BH Coke</u> , Salt etc., and measuring tower footing resistance. (Without GI Flat ) for counter poise earthing.		Nos.	4850
CL46-12	CL46	12	Counterpoise earthing including clamping devices and terminal lugs, but excluding cost of steel wire.		RM	53
CL47-13	CL47	13	Half round welding of G.I.bolts and nuts of towers in the section between ground level & upto bottom X-arm level including all bolts connecting the bracings at the bottom X-arm level and painting the welded portion with one coat of zinc rich paint.		Each	25
CL48-14	CL48	14	Half round welding of G.I.bolts and nuts of towers in the section between ground level & upto bottom X-arm level including all bolts connecting the bracings at the bottom X-arm level and painting the welded portion with one coat of zinc rich paint- For JC type towers		Each	36
CL49-15	CL49	15	Laying of 33 kV 400 Sq.mm. XLPE cable		RM	398
CL50-16	CL50	16	Termination of 400 Sq.mm. XLPE cable		Each	6710
CL51-17	CL51	17	Dismantling & Re- Stringing of 33 kV conductor (all types of conductors) for crossing of 33 kV line during stringing of EHT lines.		Per conductor	3510
CL52-18	CL52	18	Dismantling & Re-Stringing of 11 kV conductor (all types of conductors) for crossing of 11 kV line during stringing of EHT lines		Per conductor	1920
CL53-19	CL53	19	Dismantling & Re-Stringing of LT conductor/cables for crossing of LT line (all types) during stringing of EHT lines		Per conductor	1210
CL54-20	CL54	20	Methodology for DGPS Survey in Forest and other lands: Collecting boundary point all bends of corridor or boundary area with DGPS. DGPS consists of Base receiver and Rover receiver. Base is kept stationary and with rover corridor points shall be collected observing each point min 15 minutes. Base receiver and Rover receiver collected data is post processed in Trimble business center software to achieve centimeter level accuracy. (Instrument: Trimble R3 DGPS) (software used: Trimble business software)		RKM	20040

ANNEXURE – (III)						
ERECTION OF 400kV SUBSTATIONS						
SAP Code	SI.No	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)	
2	1	3	4	5		
C4S1-01	C4S1	1	Total cost of receipt from site/stores, storage, handling, erection, testing & commissioning of 400/220kV, 315/500MVA Transformers 50/ 63/80/125 MVAR Shunt reactor with all accessories and fittings including storage cum erection insurance as per specification. The charges include AC power for oil filter machines to and all other supplier supervision charges including oil testing charges in a third party lab for complete erection, testing and commissioning.	Nos	32,41,450.00	
C4S2-2-A	C4S2	2(a)	Hoisting of insulators & hardware, paving conductor and stringing of 400kV main bus for three phases with quadruple moose conductor to a tension of 1000kgs for single moose conductor, bus section length is 54mtrs.	Bus Section	55,350.00	
C4S3-02-B	C4S 3	2(b)	Hoisting of insulators & hardware, paving conductor and stringing of 400kV Jack bus for three phases with twin moose conductor to a tension of 1000kgs for single moose conductor, bus section length is 60mtrs.	Bus Section	28,070.00	
SSE0000573	C4S 4	2(c)	Hoisting of insulators & hardware, paving conductor and stringing of 400kV Jack bus for three phases with Quad moose conductor to a tension of 1000kgs for single moose conductor, bus section length is 60mtrs.	Bus Section	55,350.00	
C4S4-3	C4S 5	3.0	Erection of 7/3.66 GSS Earth wire from top of peak tower and LMs to ground and connecting to untreated earth pits including cutting, clamping and fixing of all hardware like Pad type compression clamp, cleat type clamp and T clamp etc.	RM	83.00	
C4S5-04-A	C4S 6	4(a)	Connecting equipment to equipment through 4"/4.5" IPS Al tube including cutting, bending, welding, testing, clamping etc., for each meter including both side connections.	Meter	357.00	
C4S5-4-B	C4S 7	4(b)	Connection of equipment to bus and other equipments with Quad Moose conductor where ever necessary	Each	1,320.00	
		5.0	Laying of earth mat including excavation & backfilling, welding, connecting to all equipment, structures, Junction boxes, and connecting lightning shield to earth mat and earthing of fence posts, drilling and connecting earth rods including connecting to cast iron pipes as per approved drawings with the following sizes:			
C4S6-5.1	C4S 8	5.1	M.S. Rod 40 mm dia.	RM	213.00	
C4S7-5.2	C4S9	5.2	M.S. Rod 40 mm dia. (In weathered Hard rock)	RM	651.00	
		6.0	Fabrication and connecting to risers from earth mat to structures, equipment, marshalling boxes, electrical panels, PLCC panels, fencing posts etc.,			

ANNEXURE – (III)						
ERECTION OF 400kV SUBSTATIONS						
SAP Code	SI.No	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)	
2	1	3	4	5		
C4S8-6.1	C4S 10	6.1	M.S./ G.S. Flat 75 x 12 mm	RM	189.00	
C4S9-06.2	C4S 11	6.2	M.S./ G.S. Flat 50 x 8 mm ( Above ground)	RM	79.00	
C4S10-6.3	C4S 12	6.3	Un-Treated Earth pits including installation of 40 mm dia rod electrode, disconnecting links, and all required materials and RCC collar/ chambers with bricks, cement mortar 1:4 and completion of related civil works as specified for LMs, LAs, Carrier couplings and CVTs. (Cost of RCC Collar included)	Each	3,000.00	
SSE0000743	C4S 13	New Item 6.4	Periperal Earth electrode including installation of 40mm dia rod electrode, and all required materials and providing bentonite powder around Electorde as specified for periperal electrode earthing as per specification.	Nos.	370.00	
		7.0	Laying including termination and providing suitable ferrules & lugs etc of armoured control cables of size 2 core, 2.5 sq.mm to 27 core, 2.5 sq.mm including cost of cable glands, lugs, ferrules, etc.			
C4S11-7.1	C4S 14	7.1	2 to 12 core	RM	73.00	
C4S12-7.2	C4S 15	7.2	14 to 19 core	RM	83.00	
C4S13-7.3	C4S 16	7.3	27 core	RM	97.00	
		7.4	Laying including termination and providing suitable ferrules & lugs, jointing kits etc of armoured power cables of the following size including cost of cable glands, lugs, ferrules etc.			
C4S14-7.4-A	C4S 17	7.4(a)	Upto 50 sq.mm	RM	125.00	
C4S15-7.4-B	C4S 18	7.4(b)	Above 50 sq.mm to 300 sq.mm	RM	160.00	
C4S16-7.4-C	C4S 19	7.4(c)	Above 300 sq.mm to 700 sq.mm	RM	202.00	
		8.0	Buried cable trench – Excavation for cable trench providing 100mm thick sand layer before and after laying the cable & providing 4" thick brick cover over sand, refilling, consolidation and leveling of surplus earth including the cost and conveyance of all materials, route markers, labour charges etc.,m complete for finished item of work.	RM		
C4S18-8.2	C4S 20	8.1	Size: 300 X 300 mm	RM	348.00	
C4S17-8.1	C4S 21	8.2	Size: 300 X 600 mm	RM	348.00	
C4S19-8.3	C4S 22	8.3	Size: 1500 X 800 mm	RM	927.00	
C4S20-9	C4S 23	9.0	Erection of Galvanised cable trays with 2 mm thick perforated CRCA sheet. Size: 200, 400 and 600mm	RM	83.00	

ANNEXURE – (III)						
ERECTION OF 400kV SUBSTATIONS						
SAP Code	SI.No	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)	
2	1	3	4	5		
SSE0000744	C4S 24	9.1	Excavation, Laying and Back filling of different sizes of rigid pvc pipe upto a depth of 350 mm (sizes 200mm, 150 mm & 100mm) with suitable rigid pvc bends of ISI make including supply of all materials etc complete for laying of cables.	RM	306.00	
SM00240	C4S 25	9.2	Supply and Run of 2 of 56/0.30 (4.0Sqmm) FR PVC insulated flexible Copper Cable (Finolex/L&T make) in existing pipe including giving connections, all labour charges and cost of materials complete as directed by the Engineer in charge for the finished item of work at all levels of building for Mains from Distribution board to Lighting point Board.	Mtrs	123.00	
SM00242	C4S 26	9.3	Supply and Run of 2 of 36/0.30 (2.5 Sqmm) FR PVC insulated flexible Copper Cable (Finolex/L&T make) in existing pipe for Mains from Distribution board to 15Amps 3 pin Power Plug including giving connections and labour charges and cost of materials complete as directed by the Engineer in charge for the finished item of work at all levels of building.	Mtrs	82.00	
			Erection of following equipment with Crane/Derrick at site including handling the material/equipment carefully at site including labour charges for all incidental and operational items of work.(excluding cost of transport charges from Dept. stores to the site). Note:- In 400 kV substations only, 25% extra charges for Testing and Commissioning of switchgear equipment where ever applicable).			
C4S22-010	C4S 27	10.0	420 KV SF6 Circuit breaker with support structure & marshalling boxes	Set	33,620.00	
C4S23-11	C4S 28	11.0	420 KV Single phase current transformers with secondary terminal box	Each	9,580.00	
C4S24-12	C4S 29	12.0	390 KV Lightning Arrestors	Each	9,250.00	
C4S25-13	C4S 30	13.0	420kV Single phase Capacitive Voltage transformers with secondary terminal box (with/without carrier coupling device)	Each	9,580.00	
C4S26-14.1	C4S 31	14.1	400 KV Isolators, 3 pole Horizontal centre break/Pantograph with Single earth switch including solid core insulators, interpole cable laying and connections for electrical ganging, fixing of MOMs etc.,	Set	19,470.00	
C4S27-14.2	C4S 32	14.2	400 KV Isolators, 3 pole Horizontal centre break With Double earth switches including solid core insulators, interpole cable laying and connections for electrical ganging, fixing of MOMs etc.,	Set	23,370.00	

ANNEXURE – (III)						
ERECTION OF 400kV SUBSTATIONS						
SAP Code	SI.No	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)	
2	1	3	4	5		
C4S28-14.3	C4S 33	14.3	220 KV Isolators, 3 pole Horizontal Double break/staggered with Double earth switches including solid core insulators, MOMs/BOMs etc.,	Set	13,030.00	
C4S29-015	C4S 34	15.0	400 KV Bus post insulators	Set	9,250.00	
C4S29-16-A	C4S 35	16 (a)	Erection of Marshalling kiosk	Each	1,310.00	
C4S30-(B)	C4S 36	(b)	Erection of Marshalling boxes	Each	634.00	
C4S30-17.1	C4S 37	17.1	Fabrication of Main and Auxiliary structures, stub setting templates, foundation bolts, 'U' bolts etc.,using raw steel such as M.S.Angles, Plates, Channels, R.S.Joists, M.S.rounds, excluding cost of Mild Steel and transport charges to substation site.	MT	15,500.00	
C4S31-17.2	C4S 38	17.2	Galvanization of Main and Auxiliary structures, stub setting templates, foundation bolts, 'U' bolts etc.,using raw steel such as M.S.Angles, Plates, Channels, R.S.Joists, M.S.rounds, excluding cost of zinc and transport charges to substation site.(Cost of zinc should be followed as per IEEEMA rates.).The average quantity of Zinc required for all angles of tower parts is 60 Kgs.	MT	9,080.00	

**ANNEXURE - IV ::::: Erection of 220kV, 132kV 33kV Substations**

SAP Code	Sl. No.	Item No.	Description of Item	UOM	SSR for 2025-26 (in Rs.)
	(1)	(2)	(3)	(4)	(5)
CS1-1	CS1	1	Hoisting of Insulators and hardware, stretching the conductor and stringing of <b><u>220 kV bus</u></b> comprising of three phases with <b><u>Quadruple Moose/Equivalent to HTLS</u></b> conductor to a tension of <b>900 kgs.</b> for single moose conductor. ( <b><i>The maximum length or up to a length of bus section of 40 Mtrs.</i></b> )	Bus Section	28920
CS2-2	CS2	2	Hoisting of Insulators and hardware, stretching the conductor and stringing of <b><u>220 kV bus</u></b> comprising of three phases with <b><u>single Zebra/ Moose</u></b> conductor to a tension of <b>900 kgs.</b> (The maximum length or up to a length of bus section of <b>40 Mtrs.</b> )	Bus Section	7230
CS3-3	CS3	3	Hoisting of Insulators and hardware, stretching the conductor and stringing of <b><u>220 kV bus</u></b> comprising of three phases with <b><u>Twin Zebra/ Moose</u></b> conductor to a tension of <b>1800kgs</b> , including fixing of spacer clamps( The maximum length or up to a length of bus section of <b>40m</b> ).	Bus Section	14470
CS4-4	CS4	4	Hoisting of Insulators and hardware, stretching the conductor and stringing of <b><u>132 kV bus</u></b> comprising of three phases with <b><u>Single Zebra/ Moose</u></b> conductor to a tension of <b>900 kgs.</b> (The maximum length or up to a length of bus section of <b>45 Mtrs.</b> )	Bus Section	7230
CS5-5	CS5	5	Hoisting of Insulators and hardware, stretching the conductor and stringing of <b><u>132 kV bus</u></b> comprising of three phases with <b><u>Twin Zebra/ Moose</u></b> conductor to a tension of <b>1800 kgs.</b> including fixing of spacer clamps. (The maximum length or up to a length of bus section of <b>45 Mtrs.</b> )	Bus Section	14470
CS6-6	CS6	6	Hoisting of Insulators and hardware, stretching the conductor and stringing of <b><u>33 kV bus</u></b> comprising of three phases with <b><u>Single Zebra/ Moose</u></b> conductor to a tension of <b>450 kgs.</b> (The maximum length or up to a length of bus section of <b>20 Mtrs.</b> )	Bus Section	5430
CS7-7	CS7	7	Hoisting of Insulators and hardware, stretching the conductor and stringing of <b><u>33 kV bus</u></b> comprising of three phases with <b><u>Twin Zebra/ Moose</u></b> conductor to a tension of <b>900 kgs.</b> including fixing of spacer clamps. (The maximum length or up to a length of bus section of <b>20 Mtrs.</b> )	Bus Section	9050
CS8-8	CS8	8	Hoisting of Insulators and hardware, stretching the conductor and stringing of <b><u>132 kV bus</u></b> comprising of <b><u>two phases</u></b> with <b><u>Single Zebra/Moose</u></b> conductor to a tension of <b>900kgs.</b> ( The maximum length or up to a length of bus section of <b>45m</b> ).	Bus Section	4820
CS9-9	CS9	9	Fixing of spacers for Twin Moose conductor	Each	144
CS10-10	CS10	10	Fixing of spacers for Quadruple Moose Conductor	Each	198
CS11-11	CS11	11	Fixing of Hardware,stretching the ground wire and stringing of earth wire to a tension of 450kgs from pinnacle to pinnacle.	Each	1080
CS12-12-N	CS12	12	Stringing of earth wire to a tension of 450kgs from pinnacle to ground.	Each	1080

**ANNEXURE - IV ::::: Erection of 220kV, 132kV 33kV Substations**

SAP Code	Sl. No.	Item No.	Description of Item	UOM	SSR for 2025-26 (in Rs.)
	(1)	(2)	(3)	(4)	(5)
CS13-13	CS13	13	Connection of equipment to bus and or another equipment with <b><u>single zebra/Moose/Panther</u></b> conductor including measuring, cutting,clamping and hoisting of suspension insulator assembly to support the conductor wherever necessary.	Each	379
CS14-14	CS14	14	Connection of equipment to bus and or another equipment with <b><u>Twin zebra/Moose/Panther</u></b> conductor including measuring, cutting,clamping and hoisting of suspension insulator assembly to support the conductor wherever necessary.	Each	588
CS15-15	CS15	15	Connection of equipment to bus and or another equipment with <b><u>Quad zebra/Moose/Panther/Equivalent to HTLS</u></b> conductor including measuring, cutting,clamping and hoisting of suspension insulator assembly to support the conductor wherever necessary.	Each	1180
		16	Laying of earth mat including excavation of trenches, welding, connecting to equipment and connecting lightning shield to earth mat and earthing of fence posts, drilling and connecting earth rods including connecting cast iron pipes as per Drg. No.SET(P)/149/82 with the following sizes of MS Flats /GI Flats.( <b>for 220kV &amp; 132kV</b> including fabrication.		
CS16-16A	CS16	16.a	100x16mm MS Flat / GI Flat.	RM	121
CS17-16B	CS17	16.b	50x 8mm MS Flat / GI Flat.	RM	95
CS18-16C	CS18	16.c (i)	75x 8mm MS Flat / GI Flat.	RM	108
CS18-16C-II	CS18 (New)	16.c (ii)	75x 10mm MS Flat / GI Flat.	RM	149
CS19-16D	CS19	16.d	For laying of earth flat in Hard rock in Substation / Bays extension, an additonal amount to the basic labour rate of SSR will be allowed as there is no provision in the rate of laying of earth flat for remvoal of hard rocks.	RM	82
CS20-17-N	CS20	17	Excavation of earth pit, putting cast iron pipe with flange on one end (as per ISS7181/86) of nominal dia 125mm and 2.75 meters long in side the pit including supply and fixing RCC collars 0.75 meter dia (OD), 50mm thick and 0.60meters long in side the pit, backfill the pit in the 25mm size granules of BHcoke for full depth of the pit with alternate layers of BH coke and salt of 300mm thick around the earth pipe of 150mm on all the sides of the pipe including cost and conveyance of BH coke, salt, clamps, C.I.Pipes and RCC collars, labour charges for all operational and incidental items of work etc., complete. (In Hard rock also)	Each	16120

**ANNEXURE - IV ::::: Erection of 220kV, 132kV 33kV Substations**

SAP Code	Sl. No.	Item No.	Description of Item	UOM	SSR for 2025-26 (in Rs.)
	(1)	(2)	(3)	(4)	(5)
CS21-18	CS21	18	Laying of control cables of all sizes (from 2 core. 1.5/2.5 / 4.0 Sq. mm. to 20 core, 1.5/2.5/4.0sqmm , both copper and alluminium in cable trenches including cost of suitable metalic cable glands with rubber lining. <b>Note:</b> This includes running of cables in control room where cables are run on cable racks in cable duct.	RM	14
		19	<b>Laying of power cables.</b>		
CS22-19A	CS22	19.a	upto 50 Sq.mm.	RM	18
CS23-19B	CS23	19.b	above 50 Sq.mm.	RM	25
		20	Cable terminations to the switchgear, Marshalling boxes / Panel terminal blocks/control & relay panels, LTAC panel including providng suitable ferrules and lugs as per specification (including cost of ferrules and lugs) <b>(for 220kV &amp; 132kV).</b>		
CS24-20I	CS24	20 i	1.5/2.5 Sq.mm. Copper with copper lugs each core at both ends.	Nos.	42
CS25-20II	CS25	20 ii	4.0 Sq.mm. Aluminium with Aluminium lugs each core at both ends.	Nos.	44
CS26-20III	CS26	20 iii	Up to 50 Sq.mm. Power Cable with lugs each core at both ends.	Nos.	96
CS27-20IV	CS27	20 iv	Above 50 Sq.mm.Power Cable with lugs each core at both ends.	Nos.	176
CS28-21	CS28	21	Instalation of lighting fixtures on switch yard structures including cabling and connections, labour charges etc., including 40mm dia G.I bent pipe of 0.75m length with suitable clamps for fixing to structures in complete shape (excluding cost of lights)	Each	1560
		22	Erection of the following equipment with Crane / Derrick at site including handling the material / equipment carefully at site including labour charges for all incidental and operational items of work. (excluding cost of transport charges from Dept. stores to the site).		
CS29-22.1	CS29	22.1	220 kV Circuit breakers with support structure & marshalling boxes <u>including grouting of foundation bolts and wiring of cables from Pole to Pole including terminations.</u>	Each	27340
CS30-22.2	CS30	22.2	132 kV Circuit breakers with support structure & marshalling boxes <u>including Pole to Pole cable wiring and terminations.</u>	Each	19530
CS31-22.3	CS31	22.3	33 kV Circuit breakers including Pole to Pole cable wiring and terminations.	Each	7870
CS32-22.4	CS32	22.4	2-pole 220 kV Circuit Breaker with support structure & marshalling boxes incl. grouting of foundation bolts & wiring of cables & terminations.	Each	23240
CS33-22.5	CS33	22.5	2-pole 132 kV Circuit Breaker with support structure & marshalling boxes incl. grouting of foundation bolts & wiring of cables & terminations.	Each	16600
CS34-22.6	CS34	22.6	220 kV Current Tranformers.	Each	6150
CS35-22.7	CS35	22.7	132 kV Current Tranformers.	Each	3980
CS36-22.8	CS36	22.8	33 kV Current Tranformers.	Each	1230
CS37-22.9	CS37	22.9	220 kV Potential Transfomers.	Each	6150

**ANNEXURE - IV ::::: Erection of 220kV, 132kV 33kV Substations**

SAP Code	Sl. No.	Item No.	Description of Item	UOM	SSR for 2025-26 (in Rs.)
	(1)	(2)	(3)	(4)	(5)
CS38-22.10	CS38	22.10	132 kV Potential Transfomers.	Each	3980
CS39-22.11	CS39	22.11	33 kV Potential Transfomers.	Each	1230
CS40-22.12	CS40	22.12	220 kV Lightning Arrestors.	Each	3980
CS41-22.13	CS41	22.13	132 kV Lightning Arrestors.	Each	1880
CS42-22.14	CS42	22.14	33 kV Lightning Arrestors.	Each	734
CS43-22.15	CS43	22.15	220 kV Capacitive Voltage Transformers.	Each	5790
CS44-22.16	CS44	22.16	132 kV Capacitive Voltage Transformers.	Each	3980
CS45-22.17	CS45	22.17	220 kV Isolators with earth swtich including solid core insulators erection, alignment in full shape for smooth operation by Electrical and manual.	Each	10550
CS46-22.18	CS46	22.18	132 kV Isolators with earth swtich including solid core insulators erection, alignment in full shape for smooth operation by <b>Electrical</b> and manual.	Each	7810
CS47-22.19	CS47	22.19	220 kV Isolators without earth swtich including solid core insulators erection, alignment in full shape for smooth operation by Electrical and manual.	Each	9770
CS48-22.20	CS48	22.20	132 kV Isolators without earth swtich including solid core insulators erection, alignment in full shape for smooth operation by Electrical and manual.	Each	7030
CS49-22.21	CS49	22.21	2-pole, 220 kV Isolators without earth swtich including solid core insulators erection, alignment in full shape for smooth operation by Electrical and manual.	Each	8300
CS50-22.22	CS50	22.22	2-pole, 132 kV Isolators without earth swtich including solid core insulators erection, alignment in full shape for smooth operation by Electrical and manual.	Each	5970
CS51-22.23	CS51	22.23	33 kV Isolators including solid core insulators erection, alignment in full shape for smooth operation.	Each	2540
CS52-22.24	CS52	22.24	220 kV Bus Post Type Insulators.	Each	553
CS53-22.25	CS53	22.25	132 kV Bus Post Type Insulators.	Each	418
CS54-22.26	CS54	22.26	33 kV Solid Core Insulators	Each	280
CS55-23	CS55	23	<b>Erection of 33 kV /400 V (100/ 250KVA) Station Transformer</b> including all necessary connections on HV & LV side including cost of lugs (But excluding cost of transformer and HG fuse set)	Each	8820
CS56-24	CS56	24	Erection of Control / Relay panels, LTAC panels, annunciation, <b>PTDB</b> panels etc., in the control room duly mounting them on channels and grouting them with foundation bolts excluding cost of channels & foundation bolts ( <b>for 220kV &amp; 132kV</b> ), <b>including</b> man power support to MRT wing for commissioning.	Each	3470

**ANNEXURE - IV ::::: Erection of 220kV, 132kV 33kV Substations**

SAP Code	Sl. No.	Item No.	Description of Item	UOM	SSR for 2025-26 (in Rs.)
	(1)	(2)	(3)	(4)	(5)
CS57-25	CS57	25	Erection of 220 V, <b>200 Ah / 100Ah / 80 Ah</b> Lead Acid battery in complete shape fit for charging.	Set	13600
CS58-26	CS58	26	Erection of 220 V, <b>200 Ah / 100Ah / 80 Ah</b> maintenance free battery in complete shape fit for charging .	Set	4400
CS59-27	CS59	27	Erection of 220 V, <b>200 Ah / 100Ah / 80 Ah</b> battery charger.	Set	4520
CS60-28	CS60	28	Erection of Capacitor Bank including series reactor of 7.5 MVAR Capacity	Each	7000
CS61-29	CS61	29	Erection of Marshalling kiosk	Each	1170
CS62-30	CS62	30	Erection of Marshalling boxes	Each	567
CS63-31	CS63	31	Erection of Lighting pillar box in switchyard on foundation laid (Excluding pillar box). <b>(for 220kV &amp; 132kV )</b>	Each	1560
CS64-32	CS64	32	Fabrication of Main and Auxiliary structures, stub setting templates, foundation bolts, 'U' bolts etc.,using raw steel such as M.S.Angles, Plates, Channels, R.S.Joists, M.S.rounds, excluding cost of Mild Steel and transport charges to site.((*)Note:B)	MT	12780
CS65-33	CS65	33	Galvanization of Main and Auxiliary structures, stub setting templates, foundation bolts, 'U' bolts etc.,using raw steel such as M.S.Angles, Plates, Channels, R.S.Joists, M.S.rounds, excluding cost of zinc and transport charges to substation site.(Cost of zinc should be followed as per IEEEMA rates.).The average quantity of Zinc required for all angles of tower parts is 60 Kgs.	MT	7480
		34	Setting of stubs with stub setting template for sub-station structure:Erection of stub template, fixing of jacks for supporting the template, alignment and leveling of exact location of stubs of stubsetting template, dismantling of template after completion of initial curing of CC		
CS66-34.1	CS66	34.1	220kV Towers	Set	5040
CS67-34.2	CS67	34.2	132kV Towers	Set	3620
CS68-34.3	CS68	34.3	33kV Towers & CPL's	Set	904
CS69-34.4	CS69	34.4	220kV Isolator	Set	3780
CS70-34.5	CS70	34.5	132kV Isolator	Set	2720
CS71-34.6	CS71	34.6	220 kV Breaker	Set	3270
CS72-34.7	CS72	34.7	132 kV Breaker	Set	2450
CS73-34.8	CS73	34.8	33 kV Breaker	Set	1640
CS74-035	CS74	35	Erection of the main and auxiliary structures etc., using bolts and nuts.	MT	3910
CS75-36	CS75	36	Fixing of 90lb rail poles over the transformer plinths.	RMT	778
CS76-37	CS76	37	Fixing of 105lb rail poles over the transformer plinths.	RMT	909
CS77-38	CS77	38	Erection of 33kV HG Fuse	Each	945
CS78-39	CS78	39	Erection of 33kV PT Distribution Box	Each	568
CS79-40	CS79	40	Laying and Terminations of 11kV, XLPE 1000 Sqmm Cable	RM	199
CS80-41	CS80	41	Erection of 11kV VCB outdoor type Kisok (within built Breaker, CTs, PTs, Surge Arrestors & Relays).	Each	4040
			Marking as per approved layout with the help of surveyor		
CS81-42	CS81	42	220 kV sub-station	Each	49060

**ANNEXURE - IV ::::: Erection of 220kV, 132kV 33kV Substations**

SAP Code	Sl. No.	Item No.	Description of Item	UOM	SSR for 2025-26 (in Rs.)
	(1)	(2)	(3)	(4)	(5)
CS82-43	CS82	43	132 kV sub-station	Each	32700
CS83-44	CS83	44	Bay / Bays in one sub-station	Each	16350
		45	Auto-CADD drawing with 12 copies indicate complete land with dimensions, plan of SS with equipments, location of control room, equipments, roads, duct routes, earth mat of 100X16mm & 50X 8mm flat earth pits, yard lighting fixtures etc.,		
CS84-I	CS84	i	132kV SS layout drawing	Job	8310
CS85-II	CS85	ii	220kV SS layout drawing	Job	10220
CS86-46	CS86	46	Writing of letters in control room panels of lettering on panels marshalling boxes.	Line	118
CS87-47	CS87	47	Supply and installation of Key - Board of size 1.5'x2' of Eco Wood Board with Glass covering with lock and key arrangements for providing all the keys of equipment and SS.	Each	6540
CS88-48-I	CS88	48(i)	Measurement of Earth Resistivity in 220/132/33 kv Sub Station yard area in all directions(N, E, W, S, NE, SE, NW, SW)an interval of 1m ,2m, 3m,....7m etc and getting average resistivity with soil resistivity report including all charges	LS	14440
CS89-48-II	CS89	48(ii)	Measurement of Earth Resistivity in 132/33 kV Sub Station yard area in all directions(N, E, W, S, NE, SE, NW, SW)an interval of 1m, 2m, 3m,....7m etc and getting average resistivity with soil resistivity report including all charges	LS	10830
OTC000008 1	90	49	Fabrication of name board for SS with 16 SWG MS tin and support with suitable angle and side angles 10 feet length for erection of the name board with suitable colours indicating the particulars of SS including erection complete	JOB	12000
OTC000008 3	91	50	Writing of Substation name on the main gate with superior quality synthetic enamel paint with two coats including cost of paint, brushes and labour charges etc complete.	JOB	500
	Note:	A.	Bore earthing in estimations as per the field conditions, will be considered, on case to case basis, as supplemental items.		
		B.	25% excess over CS64 is allowed for JC tower fabrication charges.		

**ANNEXURE – (V)**

**ERCTION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.**

SAP Code	Sl. No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)
2	1	3	4	5	
	C4F1	A	Erection of indoor and out door illumination for 400/220 KV Substation, Control House, Auxiliary Buildings, 33 KV Switch yard, street lighting, erection and commissioning of following items as per the approved design and drawings, including indoor/ out door Junction Boxes, Conduits, Lighting wires, lugs, ferules etc for complete finished item of work.		
C4F1-1		1.0	Fixing Buzzer anchor make or equivalent approved make with ISI mark with necessary bell and switches etc.	Each	394.00
	C4F 2	2.0	Providing and fixing concealed in roof and walls with PVC Conduit piping of ISI standards with necessary GI wire of suitable wire of suitable guage to draw wires at later date including cost of junction Box etc. cost of conveyance of all materials etc complete for finished item of work for Guest House, store building, pump house building & security room as approved and directed by the Engineer-in-charge at site.		
C4F2-I		(i)	32 mm dia - 2mm thick	RM	158.00
C4F2-II		(ii)	25 mm dia - 2 mm thick	RM	137.00
C4F2-III		(iii)	12 mm dia - 1.5mm thick	RM	94.00
C4F3	C4F 3	3	Modular for Main distribution board with 1 No. 63A, TPMCB for I/C and 2 Nos. 32A SPMCB & 6 Nos. SPMCB with neutral link for O/G complete make Havells or MDS or equivalent.	Each	2,880.00
C4F3-3-I		3(i)	Fixtures for 36W lamps BJLM-236 type, Fixtures for 36W lamps BJSM-236 type , Fixtures for 36W lamps BJIV-236 type, Fixtures for energy saving tube light 2x36W or equivalent LED lamps.	Each	784.00
C4F3-3-II		3(ii)	Fixtures for 9W CFL Lamp, Fixtures for GLS DBD-10type, Fixtures for 2x18 W CFL Lamp, Fixtures for 1x36W CFL Lamp or equivalent LED lamps.	Each	394.00
	C4F 4	4	Erection, testing and commissioning of outdoor and street Lighting Fixtures including fixing of conduit, Junction boxes, wiring and terminations complete etc.(excluding cost of concrete)		
		I	Lighting Masts/Poles as per drawing enclosed in including concreting in full shape.		
C4F4-I		(i)	Type A1	Each	8,060.00
C4F4-II		(ii)	Type E1	Each	4,310.00
C4F4-III		(iii)	All types of Lighting Panels	Each	2,770.00
C4F4-IV		(iv)	Junction Box with MCB and Terminal Blocks (Bolt Type)	Each	549.00
C4F4-V		(v)	415V 63A Power Receptacle outdoor	Each	1,100.00

**ANNEXURE – (V)**

**ERCTION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.**

SAP Code	Sl. No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)
2	1	3	4	5	
C4F4-VI		(vi)	5/15 A, 240 V sockets with switch board	Each	73.00
C4F4-VII		(vii)	Decorative type switch Boards	Each	158.00
C4F4-VIII		(viii)	Telephone Junction Boxes	Each	137.00
C4F4-IX		(ix)	Telephone Jacks for Telephones	Each	51.00
C4F4-X		(x)	Celling Fans with Electronic regulators	Each	279.00
C4F4-XI		(xi)	Flood lighting fixtures for 400W sodium Vapour lamp or Equivalent LED Lamp	Each	515.00
C4F4-XII		(xii)	Street lighting fixtures for 150 W sodium Vapour lamp or Equivalent LED Lamp	Each	515.00
C4F4-XIII		(xiii)	Street lighting fixtures for 250 W sodium Vapour lamp or Equivalent LED Lamp	Each	620.00
C4F4-XIV		(xiv)	Industrial high bay lightining fixtures for 250 W HVSP lamp or Equivalent LED Lamp	Each	620.00
C4F4-XV		(xv)	Lighting fixtures for 125 HP MV lamp post lanterns or Equivalent LED Lamp	Each	385.00
C4F 5	B	<b>Erection, testing and commissioning of Fire Fighting, Detection and Alarm System :</b>			
		1	Erection of Horizontal centrifugal Electric Driven Hydrant/HVW Spray pump of capacity 410 Cum/hr, total dynamic head of 88MWC with all accessories & fittings and Electric Induction Motor Squirrel cage type for the above with all accessories & fittings.	Each	99,370.00
C4F5-2		2	Erection of Horizontal centrifugal Diesel Engine Driven Hydrant/HVW spray pump of capacity 410 Cum/hr and total dynamic head of 88MWC with all accessories and fittings. Diesel Engine, multi cylinder type, four stroke cycle with mechanical airless injection cold starting type for the above with all accessories and fittings and a set of Batteries and battery chargers and fuel tank having capacity to hold fuel oil for six hours of full load run.	Each	1,05,560.00
C4F5-3		3	Erection of Horizontal centrifugal Electric Driven jockey pump of capacity 10.8 Cum/hr and Total dynamic head of 88MWC with all accessories and fittings along with Electric Motor for the above with all accessories and fittings.	Each	9,420.00
C4F5-4		4	Air vessels with vent valves etc. as per system requirement.	Each	8,170.00
C4F5-5		5	Sump pumps 10 Cum/ Hr. MWC with motor starter and all accessories	Each	7,230.00
C4F5-6		6	Basket strainer 300 NB	Each	3,140.00
C4F6-7-A	C4F6	7(a)	Control panel equipped with all accessories for motor drives of Fire water pumps and 2 Nos. jockey pumps for two sources of supply.	Each	6,280.00

**ANNEXURE – (V)**

**ERCTION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.**

SAP Code	Sl. No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)
2	1	3	4	5	
C4F6-7-B		7(b)	Panel for 2 nos. Battery chargers & Diesel Engine driven fire water pumps.	Each	6,280.00
C4F6-7-C		7(c)	Annunciation panel at fire water pump house.	Each	2,400.00
C4F6-7-D		7(d)	Annunciation panel in Control Room.	Each	2,400.00
C4F-8-7-A	C4F 7	8	Hydrant and HVWS system Accessories.		
C4F-8-7-B		(a)	Single headed Hydrants	Each	1,100.00
C4F-8-7-C		(b)	Landing valves	Each	1,100.00
C4F-8-7-D		(c)	Hose cabinets.	Each	1,200.00
C4F-8-7-E		(d)	Hoses of 15.0m length with coupling	Each	110.00
C4F-8-7-F		(e)	Hoses of 7.5m length with coupling	Each	110.00
		(f)	Branch pipe with Nozzles.	Each	110.00
	C4F8	9	Mild steel black pipes and Galvanized Mild steel pipes with wrapping & coating for below ground and painting for above ground including cost of wrapping & coating material and paint required & excavation, back filling & all civil works etc., & testing complete.		
C4F8-9-A-I		a(i)	300 NB (below ground)	RM	3,140.00
C4F8-A-II		a(ii)	300 NB (above ground)	RM	2,100.00
C4F8-9-B-I		b(i)	250 NB (below ground)	RM	2,570.00
C4F8-B-II		b(ii)	250 NB (above ground)	RM	1,620.00
C4F8-9-C-I		c(i)	200 NB (below ground)	RM	2,000.00
C4F8-C-II		c(ii)	200 NB (above ground)	RM	1,520.00
C4F8-9-D-I		d(i)	150 NB (below ground)	RM	1,570.00
C4F8-D-II		d(ii)	150 NB (above ground)	RM	1,280.00
C4F8-9-E-I		e(i)	100 NB (below ground)	RM	998.00
C4F8-E-II		e(ii)	100 NB (above ground)	RM	811.00
C4F8-9-F-I		f(i)	80 NB (below ground)	RM	761.00
C4F8-9-F-II		f(ii)	80 NB (above ground)	RM	526.00
C4F8-9-G		g)	50 NB	RM	507.00
C4F8-9-H		h)	25 NB	RM	305.00
C4F8-09-I		i)	15 NB	RM	216.00
C4F9-010-A	C4F 9	10(a)	Set of GI Piping beyond deluge valves for transformer including detection piping and pipe supports including all accessories.	Set	3,57,870.00
C4F9-10-B		10(b)	Erection of Hume pipe as per specification	RM	998.00
	C4F10	11	<b>VALVES</b>		
C4F10-11-A		(a)	300 NB Gate	Each	3,140.00

**ANNEXURE – (V)**

**ERECTION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.**

SAP Code	Sl. No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)
<b>2</b>		<b>1</b>	<b>3</b>	<b>4</b>	<b>5</b>
C4F10-11-B		(b)	250 NB Gate	Each	2,660.00
C4F10-11-C		(c)	250 NB Check	Each	2,660.00
C4F10-11-D		(d)	200 NB Gate	Each	2,100.00
C4F10-11-E		(e)	150 NB Gate	Each	2,000.00
C4F10-11-F		(f)	100 NB Gate	Each	1,420.00
C4F10-11-G		(g)	80 NB Gate	Each	948.00
C4F10-11-H		(h)	80 NB Check	Each	948.00
C4F10-11-I		(i)	25 NB Gate	Each	348.00
C4F10-11-J		(j)	50 NB Gate	Each	761.00
C4F10-11-K		(k)	50 NB Check	Each	761.00
C4F10-11-L		(l)	15 NB	Each	210.00
C4F10-11-M		(m)	Float operated valve 100 NB	Each	2,000.00
	<b>C4F11</b>	<b>12</b>	<b>INSTRUMENTS</b>		
C4F11-12-A		(a)	Float operated level gauge	Each	1,720.00
C4F11-12-B		(b)	Level Switch	Each	1,720.00
C4F11-12-C		(c)	Pressure Gauge	Each	998.00
C4F11-12-D		(d)	Pressure Switch	Each	2,100.00
C4F11-12-E		(e)	Differential Pressure Gauge	Each	1,520.00
C4F12-13-A	<b>C4F12</b>	<b>13(a)</b>	Deluge valve with motor gounge, pr. switch, pr.guage, solenoid valve to drain - size 150 NB	set	9,420.00
C4F12-13-B		<b>13(b)</b>	Local control panel for Deluge valve	Each	2,660.00
C4F12-13-C		<b>13(c)</b>	Strainer Y type, 150 NB	Each	2,100.00
C4F12-13-D		<b>13(d)</b>	Quartzoid bulb detectors	Each	171.00
C4F12-13-E		<b>13(e)</b>	HVW spray nozzles	Each	171.00
	<b>C4F13</b>	<b>14</b>	<b>Detection &amp; Alarm System</b>		
C4F13-14-A		(a)	Ionisation smoke detector	Each	761.00
C4F13-14-B		(b)	Photoelectric smoke detector	Each	761.00
C4F13-14-C-I		(c) (i)	Heat detector	Each	761.00
C4F13-14-C-II		(c) (ii)	Multi criteria detector	Each	761.00
C4F13-14-D		(d)	Response indicator	Each	761.00
C4F13-14-E		(e)	Manual call point	Each	761.00
C4F13-14-F		(f)	Fire detection & Alarm panel	Each	761.00
	<b>C4F14</b>	<b>15</b>	<b>Portable Fire Extinguishers</b>		
		(a)	Dry chemical powder type Fire extinguishers with all accessories.		
C4F14-15-I		(i)	10 kgs. Capacity	Each	77.00
C4F14-15-II		(ii)	25 kgs. Capacity (trolley mounted)	Each	151.00
C4F14-15-III		(iii)	50 kgs. Capacity (trolley mounted)	Each	205.00
C4F14-15-IV		(iv)	150 kgs. Capacity (trolley mounted)	Each	437.00

**ANNEXURE – (V)**

**ERECTION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.**

SAP Code	Sl. No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)
2	1	3	4	5	
C4F14-15-B1		(b)	CO2 type portable Fire extinguishers		0.00
C4F14-15-B2		(i)	45 kgs. Capacity (trolley mounted)	Each	158.00
C4F14-15-B3		(ii)	22.5 kgs. Capacity (trolley mounted)	Each	158.00
C4F14-15-B4		(iii)	9 kgs. Capacity (trolley mounted)	Each	74.00
C4F14-15-C		(c)	2 kgs. Capacity (Portable )	Each	59.00
C4F14-15-D		(d)	9 Litres capacity Mechanical foam type fire extinguishers	Each	79.00
		(e)	Sand / water Buckets 9 litres capacity	Each	104.00
	<b>C4F15</b>	<b>16</b>	<b>Air Conditioning System</b>		
C4F15-1		1	Erection, testing and commissioning of Split AC 2 Ton with all suitable accessories	Each	7,450.00
C4F15-02		2	Erection of Air Conditioning AC distribution panel	Each	6,280.00
SSC0000093		3	Providing Under Deck Insulation for the Roof exposed to sunlight with 50 mm thick TF quality expanded poly styrene including GI washers and wire for fixing.	Sq. ft.	69.00
		4	Erection of Ventilation fans		
C4F15-I		i)	600 mm Sweep	Each	1,670.00
C4F15-II		ii)	450 mm Sweep	Each	1,670.00
C4F15-III		iii)	300 mm Sweep	Each	1,670.00
C4F16-17	<b>C4F16</b>	<b>17</b>	Erection, testing and commissioning of 250 KVA DG Set complete including AMF Panel, auxiliaries etc.	Set	1,11,300.00
	<b>C4F17</b>	<b>18</b>	Erection, testing and commissioning of 33kV Station Supply System		
		<b>I</b>	<b>33kV/440 V Substation :</b>		
C4F17-1-A		(a)	33kV/433 V, 630KVA Station supply transformer	Each	9,540.00
C4F17-1-B		(b)	33 kV Isolator with terminal connectors and support insulators	Set	2,540.00
C4F17-1-C		(c)	33 kV HG Fuse set	Each	945.00
C4F17-18-1-D		(d)	33 kV Lightning Arrestor	Each	734.00
C4F17-18-1-E		(e)	150 x 75 mm M.S Channels & Struc. Steel	MT	4,030.00
C4F17-18-1-F		(f)	HT Trivector Meter Box	Each	1,200.00
C4F17-18-1-G		(g)	Hoisting of Insulators & Hardware, stringing / formation of the 33 kV Bus comprising of 3 phases with DOG Conductor and all equipment to equipment, equipment to bus interconnections, jumpering, fixing of clamps & connectors etc. required for the entire 33kV/440 V station supply switchyard of 400/220 KV Substation complete as directed by site engineer.	LS	21,950.00

**ANNEXURE – (V)**

**ERECTION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.**

SAP Code	Sl. No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)
2		1	3	4	5
		19	<b>Erection of Control and Relay Panels</b>		
	C4F18		Receipt from site stores, Transport to control room, handling, Erection, Testing and commissioning of all Control, Relay, Protection and other Panels/ Equipment, with complete accessories, equipment etc., as specified.		
C4F18-I		(i)	400 KV Feeders/ Tie/ 315 MVA Transformer Control/ Relay/ Protection Panels.	Each	52,480.00
C4F18-II		(ii)	220 KV Feeders/ Bus coupler/315 MVA Transformer / 50/63/80/125 MVAR shunt Reactors Control/ Relay/ Protection Panels.	Each	49,990.00
C4F18-III		(iii)	Common equipment panels for 400/220kV	Each	43,150.00
C4F18-IV		(iv)	400kV Bus bar Protection	Set	67,750.00
C4F18-V		(v)	220KV Bus bar Protection	Set	87,470.00
C4F19-I	<b>C4F19</b>	<b>19(i)</b>	Common equipment Panels for 400/220kV.	Each	43,150.00
C4F19-II		19(ii)	All other equipment of SMS and Time synchronising equipment.	Each	2,00,750.00
C4F19-III		19(iii)	400KV AC Bay Kiosk	Each	50,820.00
C4F19-IV		19 (iv)	220KV AC Bay Kiosk	Each	38,120.00
	C4F20	20	Complete Substation Automation system for 400/220KV Substation including hard ware and software for remote control station along with associated equipments and kiosks in full shape as per specification.		
C4F20-A		(a)	Installation, Testing and commissioning of Networking Panel, OWS1, OWS2, EWS Remote work station. BCUs, LIUs, Ethernet Switches, Splicing of OFC including visual monitoring system etc.,	Set	3,27,980.00
C4F20-B		(b)	Installation, Testing and commissioning of all necessary software's compatible to IEC: 61850 for making the SAS operation in full shape including remote SCADA complete as directed by site engineer.	Set	1,09,330.00
		(c)	Extension works of Installation, Testing and commissioning of BCU, LIU, Ethernet Switch, Splicing of OFC to the existing SAS System.		
C4F20-CI		(I)	FIRST BAY	per bay (if it is First Bay)	43,720.00
C4F20-CII		(II)	SECOND BAY onwards	Per Bay	21,870.00

**ANNEXURE – (V)**

**ERECITION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.**

SAP Code	Sl. No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)
2	1	3	4	5	
	(d)		Extension works of Installation, Testing and commissioning of all necessary software's compatible to IEC: 61850, adding new SLD for the new bay in the existing substation and configuring all necessary signals and data base for making the SAS operation in full shape including Remote SCADA as directed by site engineer.		
C4F20-DI	(i)		FIRST BAY	per bay (if it is First Bay)	1,09,330.00

**ANNEXURE – (V)**

**ERECTION OF ILLUMINATION, LIGHTING, FIRE FIGHTING, AIRCONDITIONING, D.G Set & 33kV STATION SUPPLY SYSTEMS IN 400kV SUBSTATIONS.**

SAP Code	Sl. No.	Item No.	Description of Item	Unit	Standard Schedule Rates for the year 2025-26 (in Rs.)
2	1	3	4	5	
C4F20-DII		(ii)	SECOND BAY onwards	Per Bay	54,660.00
C4F20-E		(iii)	SAS Upgradation works old DS Agile version to latest DS Agile version 7.0 with a view HMI Graphical version including all hardware and software requirements etc	Lot	9,60,350.00
		C	<b>220 V DC Battery &amp; Battery Chargers and AC, DC Distribution Boards</b>		
		1	Receipt from site stores, Transport to control room, handling Erection, Testing and commissioning of Battery & Battery chargers with complete accessories, equipment etc., as specified.		
C4F20-C-A		(a)	220V, 400AH Capacity Sealed Maintenance free VRLA Type 1 No Battery Banks along with all other required accessories.	Set	18,460.00
C4F20-C-B		(b)	40/100A Float Charger and Float - Cum- Boost Charger (1 No.)	Set	10,970.00
		2	Receipt from site stores, Transport to control room, handling, Erection, Testing and commissioning of A.C. & D.C. Distribution Boards with complete accessories, equipment etc., as specified.		
C4F20-C-2-A		(a)	415V AC Main Board ( Sub-Boards- I & II) as per the Specification & Drawing.	Each	1,49,200.00
C4F20-C-2-B		(b)	415V AC Distribution Board ( Sub- Boards- I & II) as per the Specification & Drawing.	Each	2,48,690.00
C4F20-C-2-C		(c)	415V AC Lighting Board ( Sub- Boards- I & II ) & Emergency Lighting Board as per the Specification & Drawing.	Each	62,470.00
C4F20-C-2-D		(d)	220V DC Distribution Board ( Sub- Boards- I & II) as per the Specification & Drawing.	Each	37,680.00

**ANNEXURE – (VI)**

**TRANSPORTATION, HANDLING CHARGES INVOLVED DURING ERECTION OF 400KV TRANSMISSION LINES**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Standard Schedule Rates for the year 2025-26 (in Rs.)</b>
<b>2</b>		<b>1</b>	<b>3</b>	<b>4</b>	<b>5</b>
C4H1-1	C4H1	1	Total cost for transportaion and handling Charges for Setting of Stub with Stub setting template.	Each Set	1,200.00
C4H2-2	C4H2	2	Erection of Tower : Total cost for transportation and handling Charges.	Per MT	943.00
C4H3-3	C4H3	3	Double Circuit Stringing with Twin Moose : Transportation and and handling charges for line materials.	Per KM	25,790.00
C4H4-4	C4H4	4	Single Circuit Stringing with Twin Moose : : Transportation and handling charges for line materials.	Per KM	13,760.00
C4H5-5	C4H5	5	Double Circuit Stringing with Quadruple Moose : Transportation and and handling charges for line materials.	Per KM	51,590.00
C4H6-6	C4H6	6	Single Circuit Stringing with Quadruple Moose : : Transportation and handling charges for line materials.	Per KM	27,540.00
C4H7-7	C4H7	7	OPG wire & earthwire: Transportation and handling charges for OPGW/earthing materials for D/C stringing.	Per KM	784.00
C4H8-8	C4H8	8	OPG wire & earthwire: Transportation and handling charges for OPGW/earthing materials for S/C stringing.	Per KM	804.00

**ANNEXURE - VII :::: Handling charges of Equipment & Line Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>	
					<b>Loading</b>	<b>Un-Loading</b>
		I	<b>Loading / Unloading of materials from departmental / Private vehicles in to the stores yard and stacking and vice-versa</b>			
	(1)	(2)	(3)	(4)		
ST1-1-L ST1-1-U	ST1	1	Cement	MT	104.00	122.00
		2	All other materials			
ST2-I	ST2	(i)	Steel	MT	236.00	236.00
ST3-II	ST3	(ii)	Tower parts	MT	236.00	236.00
ST4-III	ST4	(iii)	RS Joists and rail poles and MS Sheets of various sizes.	MT	236.00	236.00
		3	Cable / Conductor drums (for loading / un loading )			
ST5-A	ST5	a	Panther ACSR	Each Drum	260.00	260.00
ST6-B-N	ST6	b	Zebra ACSR	Each Drum	364.00	364.00
ST7-C	ST7	c	Moose ACSR	Each Drum	364.00	364.00
ST8-D	ST8	d	Moose ACSR ( Huge Drums of 1.75KM and above)	Each Drum	535.00	535.00
ST9_E	ST9	e	Earth wire	Each Drum	156.00	156.00
ST10-F-N	ST10	f	Control cables up to 6 Core	Each Drum	156.00	156.00
ST11-G-N	ST11	g	Control cables above 6 Core	Each Drum	208.00	208.00
ST12-H	ST12	h	3 1/2 Core LTAC cable drum (up to 500 meters).	Each Drum	208.00	208.00
ST13-I	ST13	i	3 1/2 Core LTAC cable drum (above 500 meters).	Each Drum	260.00	260.00
		4	Other materials received in cases.			
ST14-I	ST14	(i)	Case weighing not more than 100 Kgs.	Each case	137.00	137.00
ST15-II	ST15	(ii)	Case weighing from 101kgs to 500 Kgs.	Each case	259.00	259.00
ST16-III-L ST16-III-U	ST16	(iii)	Case containing fragile items and weighing more than 501kgs and up to 1MT	Each case	517.00	413.00
ST17-IV	ST17	(iv)	for LTAC panel	Each	345.00	345.00
ST18-V-A	ST18	v(a)	70KN Normal disc insulator	Each	1.00	1.00
ST19-V-B	ST19	v(b)	120KN Normal disc insulator	Each	2.00	2.00
ST20-V-C	ST20	v(c)	160KN Normal disc insulator	Each	2.00	2.00
ST21-VI-A	ST21	vi(a)	70KN Anti-fog disc insulator	Each	2.00	2.00
ST22-VI-B	ST22	vi(b)	120KN Anti-fog disc insulator	Each	2.00	2.00
ST23-VI-C	ST23	vi(c)	160KN Anti-fog disc insulator	Each	3.00	3.00
		(vii)	Loading / Un loading and stacking charges for 70KN /120KN SRC insulators.			

**ANNEXURE - VII :::: Handling charges of Equipment & Line Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>	
					<b>Loading</b>	<b>Un-Loading</b>
ST24-A	ST24	(a)	132kV	Each string	3.00	3.00
ST25- B	ST25	(b)	220kV	Each string	3.00	3.00
ST26-VIII	ST26	(viii)	Loading / Un loading and stacking charges for 120KN /160KN SRC insulators for 400kV .	Each string	4.00	4.00
		5	Cases containing Control & Relay Panels			
ST27-A	ST27	(a)	33kV	Each	345.00	345.00
ST28-B	ST28	(b)	132kV and 220kV	Each	430.00	430.00
		6	Cases containing CTs, PTs, CVTs			
ST29-I	ST29	(i)	11kV to 33kV Rating	Each case	104.00	104.00
ST30-II	ST30	(ii)	Above 33kV and up to 132kV	Each case	519.00	519.00
ST31-III	ST31	(iii)	220kV Rating	Each case	774.00	774.00
		7	Cases containing LAs			
ST32-I	ST32	(i)	33kV	Each case	22.00	22.00
ST33-II	ST33	(ii)	132kV	Each case	259.00	259.00
ST34-III	ST34	(iii)	220kV	Each case	345.00	345.00
		8	Loading / Un-Loading of			
ST35-1	ST35	1	33kV Breaker	Each set	1030.00	1030.00
ST36-2	ST36	2	132kV CB	Each set	2060.00	2060.00
ST37-3	ST37	3	220kV SF6 CB	Each set	2580.00	2580.00
ST38-4	ST38	4	Station Transformer (100KVA)	Each set	396.00	396.00
ST39-5	ST39	5	Station Transformer (250KVA)	Each set	475.00	475.00
ST40-6	ST40	6	220V 80AH/100AH Battery <b><u>(Conventional)</u></b> <b><u>(Lead Acid)</u></b>	Set	860.00	860.00
ST41-7	ST41	7	220V 80AH /100AH Battery (VRLA) (Maintenance Free)	Set	603.00	603.00
ST42-8	ST42	8	220V 200AH Battery <b><u>(Conventional)</u></b> <b><u>(Lead Acid)</u></b>	Set	944.00	944.00
ST43-9	ST43	9	220V 400AH Battery	Set	1380.00	1380.00
ST44-10	ST44	10	220V Battery Charger with DC distribution Board	Set	517.00	517.00
ST45-11	ST45	11	DCDB for battery Charger.	Each	172.00	172.00
ST46-12	ST46	12	132kV Hardware single	Set	12.00	12.00
ST47-13	ST47	13	132 KV Hardware double	Set	13.00	13.00
ST48-14	ST48	14	220 KV Hardware single	Set	17.00	17.00
ST49-15	ST49	15	220 KV Hardware double	Set	18.00	18.00
ST50-16	ST50	16	220 KV Isolators, without insulators including mechanism box	Set	517.00	517.00
ST51-17	ST51	17	220kV Solid core insulators	Each	69.00	69.00
ST52-18	ST52	18	132 KV Isolators (without soild core insulators)	Each	387.00	387.00

**ANNEXURE - VII :::: Handling charges of Equipment & Line Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>	
					<b>Loading</b>	<b>Un-Loading</b>
ST53-19	ST53	19	132kV Solid core insulators	Each	43.00	43.00
ST54-20	ST54	20	33 KV Isolators (without soild core insulators)	Each	172.00	172.00
ST55-21	ST55	21	33kV Solid core insulators	Each	5.00	5.00
ST56-22	ST56	22	Vibration dampers, mid span compression joints, repair sleeves, clamps & connectors etc	100 Nos.	172.00	172.00
		23	Capacitor Banks			
ST57-A	ST57	a	5 MVAR	Set	1380.00	1380.00
ST58-B	ST58	b	Neutral C.T.	Each	94.00	94.00
ST59-24	ST59	24	Scrap items like MS Scrap, GI Scrap, Ferrous Scrap etc.,	Per MT	259.00	259.00
ST60-25	ST60	25	Scrap items like Conductor scrap, Earth wire Scrap, etc.,	Per MT	345.00	345.00
ST61-26	ST61	26	Bolts & Nuts weighing 50 Kgs bags <u>including springs washers, flat washers.</u>	Each bag	8.00	8.00
ST62-27	ST62	27	3 1/2 Core LTAC Cable bits (loose) by measuring and load / unload (up to 500 Meters, limited to Rs.142 per Bit (Maximum)	Mts	1.00	1.00
ST63-28	ST63	28	Cable bits (loose) up to 6 Core by measuring and load / un load.( up to 500 Meters, limited to Rs.106 per Bit (Maximum)	Mts	1.00	1.00
ST64-29	ST64	29	Cable bits (loose) above 6 Core by measuring and load / un load.(up to 500 Meters, limited to Rs.142 per Bit (Maximum)	Mts	1.00	1.00
ST65-30	ST65	30	Copper Scrap	Per MT	206.00	206.00
ST66-31	ST66	31	Battery Scrap	Per MT	216.00	216.00
ST67-32	ST67	32	Capacitor units Scrap	Each	9.00	9.00
ST68-33	ST68	33	33kV Breaker Limb	Each	174.00	174.00
ST69-34	ST69	34	132kV Breaker Limb	Each	430.00	430.00
ST70-35	ST70	35	220kV Breaker Limb	Each	619.00	619.00
ST71-36 ST71-36-U	ST71	36	Tyres scrap of all sizes	Each	21.00	10.00
ST72-37	ST72	37	Empty oil drums	Barrel	7.00	7.00
ST73-38	ST73	38	Full oil drums	Barrel	43.00	43.00
ST74-39	ST74	39	220V, 200AH Battery (VRLA) (Maintenance free)	Set	661.00	661.00
ST75-40	ST75	40	220kV Bushing	Each	268.00	268.00
ST76-41	ST76	41	132kV Bushing	Each	134.00	134.00

**ANNEXURE - VII :::: Handling charges of Equipment & Line Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>	
					<b>Loading</b>	<b>Un-Loading</b>
ST77-42	ST77	42	33kV Bushing	Each	33.00	27.00
ST77-42-U						
		Note:	- If loading / Un loading is done with Crane, 1/3 rd Charges are to be paid towards labour charges and remaining amount is towards crane hire charges. Example: Loading charges of 100 kVA Station Transformer is Rs. 326.90/- and in case is loaded by using a crane then labour charges would be Rs.109.00 & crane hire charges would be Rs.217.90.			
		II.	<b>Loading and Un-loading and counting at Stores</b>		<b>SSR for 2025-26</b>	
ST78-43	ST78	43	Tower parts counting on part wise and restocking at stores yard ( for stock verification purpose)		87	
ST79-44	ST79	44	Labour charges for weighing and restocking of GI Tower Parts or Bolts & Nuts, Washers (for stock verification purpose)		345	
ST80-45	ST80	45	Labour charges for loading and unloading of ACSR, AAA Conductor & Earth wire bits for weighiment (for stock verification purpose).		345	
ST81-46	ST81	46	Counting and Restocking of Hardware (Iron parts, Al jumper cones, Al Tension cones, PA rods, Arcing horns, Al grippers etc) (for stock verification purpose)		5	
ST82-47	ST82	47	Counting and Restocking of 220kV & 132kV Line accessories like Dampers, MSC Joints, Repair sleeves, PA rods, D- Shackles Links, Earthing sets, Hangers, Counter Poise Earthing Clamps etc (for stock verification purpose)		2	
ST83-48	ST83	48	Counting and restocking of insulators of various capacities (for stock verification purpose)		2	
ST84-49	ST84	49	Loading of Assorted tower parts from different places by observing part wise and loading in to lorry at stores		259	
ST85-50	ST85	50	For Opening and Repacking of Packing of Panels for check measuring purpose		52	
		51	For Opening and Repacking of Packing of Breakers for check measuring purpose			
ST86-A	ST86	(a)	220 kV		171	
ST87-B	ST87	(b)	132 kV		121	
ST88-C	ST88	(c)	33 kV		52	
ST89-52	ST89	52	For Opening and Repacking of Packing of Fragile Materials and Small Packages like Wooden, Cartoon Boxes etc., for check measuring purposes.		26	

**ANNEXURE - VII :::: Handling charges of Equipment & Line Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>SSR for 2025-26 (in Rs.)</b>		
					<b>Loading</b>	<b>Un-Loading</b>	
		<b>III</b>	<b>Crane Hire charges:(for departmental works at the premises)</b>			<b>SSR for 2025-26 (in Rs.)</b>	
		53	For 2 to 8 Tonne Capacity crane				
ST90-1	ST90	i.	For 1st hour			2520	
ST91	ST91	ii.	For every hour or part thereof after 1st hour			1150	
		54	For 8 to 20 Tonne Capacity crane				
ST92	ST92	i.	For 1st hour			3930	
ST93	ST93	ii.	For every hour or part thereof after 1st hour			1310	
		55	For above 20 Tonne Capacity crane				
ST94	ST94	i.	For 1st hour			6070	
ST95	ST95	ii.	For every hour or part thereof after 1st hour			2130	
		<b>IV</b>	<b>Sparing of Departmental Vehicle to the contractor:</b>			<b>SSR for 2025-26 (in Rs.)</b>	
ST96-56	ST96	56	Sparing of Departmental vehicle(Lorry) to the contractor is under emergency only. When departmental lorry is engaged to the Contractor on a particular day an amount per day or part thereof should be recovered for a total KM run up to 100KM on that day plus for every additional KM rate, which ever is higher. The run to be worked out taking initial reading at starting point and closing reading after returning the same starting point duly completing the transport work.			3310	
ST97-57A	ST97	57	Providing Transportation to Officers			6	
	Note:	i.	When the departmental lorry is used for transport of fragile and costly equipment, they have to be insured by the contractor in first place before transport and the same will be claimed in the respective work bill.				
		ii.	If the crane is given on hire to other than TGTRANSCO works, the rate is a minimum of Rs. 24,309/- (Rs.1013/- per hr X 24Hrs) + (Fuel cost & lubricants) per day or part thereof and the time is to be reckoned from the time of leaving department premises till reaching back.				

**ANNEXURE -VIII :::: Transport of Protection and Control of Equipment and Line Materials**

Sl. No.	Item No.	Description of Item	Per Load
		The following are the minimum materials / equipment, for each load. One Load = 9.0 MT	
	<b>1</b>	<b>CTs, PTs, &amp; CVTs:</b>	
T.1	1.a	220 kV	2 Nos.
T.2	1.b	132 kV	3 Nos.
T.3	1.c	33 kV	12 Nos.
		NOTE: For transport of 220kV CTs, PTs &CVTs extra provision of Rs.180/- may be added for each load towards labour for clearing the obstructions like Electrical and Telephone lines as the equipment are very tall.	
	<b>2</b>	<b>SF6 Circuit Breakers:</b>	
T.4	2.a	220 kV	1/2 sets
T.5	2.b	132 kV	2/3 sets
T.6	2.c	33 kV	2 Nos.
	<b>3</b>	<b>Isolators with or without Earth switch including post type Insulators:</b>	
T.7	3.a	220 kV	1 set.
T.8	3.b	132 kV	2 Sets
T.9	3.c	33 kV	8 Nos.
	<b>4</b>	<b>Lightning Arrestors:</b>	
T.10	4.a	220 kV	6 Nos.
T.11	4.b	132 kV	6 Nos.
T.12	4.c	33 kV	24 Nos.
	<b>5</b>	<b>Control &amp; Relay panels:</b>	6 Nos.
	<b>6</b>	<b>ACSR Conductor and Earth wire drums:</b>	
T.13	6.a	ACSR moose	3Nos.
T.14	6.b	ACSR Zebra	4Nos.
T.15	6.c	ACSR Panther	6Nos.
T.16	6.d	Earth wire of 2 KM per each drum	8Nos.
T.17	6.e	Earth wire of 3 KM per each drum	6 Nos.
T.18	6.f	CABLE DRUMS	10Nos.
	<b>7</b>	<b>Disc Insulators</b>	
T.19	7.a	70 KN	1000 Nos.
T.20	7.b	120KN	800 Nos.
	<b>8</b>	<b>Silicon Rubber Insulators</b>	
T.21	8.a	70 KN	275 Nos.
T.22	8.b	120KN	228 Nos.
	<b>9</b>	<b>Wave Traps</b>	
T.23	9.a	220kV	6 Nos.
T.24	9.b	132kV	16 Nos.

**ANNEXURE -IX :::: O&M works of EHT Lines & Substations**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of work</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
(1)	(2)	(3)	(4)	(5)	
OM1-1	OM1	1	(a).Providing of Vibration dampers ( for 220 KV & 132 KV lines) (Excluding Material & Transportation cost)	Each	326
OM2	OM2		(b). Providing of spacer damper for 400 KV twin Moose lines (Excluding Material & Transportation cost)	Each	445
		2	Painting of towers with two coats of aluminum paint using Aluminum paint 1st grade containing 3.06 Kg of Aluminum paste for 18 liters of thinner 1st coat is to be applied before erection of towers and 2nd coat after stringing and half round welding including cost of paint, cost of brushes, labour charges etc., complete.		
OM3-A	OM3	a)	First coat of 1st Grade Aluminum Paint duly scratching and cleaning of towers including labour charges, cost of paint, brushes etc.	MT	5650
OM4-B	OM4	b)	Labour charges for painting including scratching and cleaning of towers of 1st coat of Alluminum with out cost of paint & brushes.	MT	1390
OM5-C	OM5	c)	(*) Second coat of 1st Grade Aluminium Paint duly scratching and cleaning of towers including labour charges, cost of paint, brushes, etc.	MT	3460
OM6-D	OM6	d)	(*) Labour charges for painting including scratching and cleaning of towers of 2nd coat of Aluminum with out cost of paint & brushes.	MT	939
		3	Painting of towers with single coat of red oxide paint of 1st Grade, including scratching and cleaning of towers.		
OM6-3		a)	Scratching of towers where towers are heavily rusted shall be cleaned by wire brushes, Surface scrapping tools, Sand papers and cleaning with dungry cloth.	MT	1200
OM7-B	OM7	b)	One coat of 1st Grade Red Oxide Paint including labour charges for scratching and cleaning of towers including cost of paint, brushes etc.	MT	2780
OM8-C	OM8	C)	Labour charges for painting of towers including scratching and cleaning of towers without cost of paint & brushes.	MT	1130
			<b>(*) : The requirement of 2nd coat is to be justified by the concerned Divisional Engineer/Executive Engineer before execution of the work.</b>		
OM9-4	OM9	4	Providing of Arcing Horns for 132 KV line on both tower side and line side i.e. two per string (Excluding Material & Transportation cost)(with lefty & Pullies)	Per string	3780
OM10-5	OM10	5	Providing of Arcing Horns for 132 KV line (Excluding Material & Transportation cost)(without lefty & Pullies)	Each	326
OM11-6	OM11	6	Providing of Arcing Horns for 220 KV line on both tower side and line side i.e. two per string (Excluding Material & Transportation cost)(with lefty & Pullies)	Per string	5550

**ANNEXURE -IX ::::: O&M works of EHT Lines & Substations**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of work</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
	(1)	(2)	(3)	(4)	(5)
OM12-7	OM12	7	Providing of Arcing Horns for 220 KV line (Excluding Material & Transportation cost)(without lefty & Pulleys)	Each	326
OM13-8	OM13	8	Providing of Missing angles/ Replacement of rusted angles on the existing towers departmentally (including transporaton charges & Excluding cost of tower parts, bolts & nuts)	Per each	230
OM14-9	OM14	9	Replacement of insulators at Suspension tower of 132 KV line (Excluding Material & Transportation cost)	Per string	3780
OM15-10	OM15	10	Replacement of insulators at Tension tower of 132 KV line (Excluding Material & Transportation cost)	Per string	6390
OM16-11	OM16	11	Replacement of insulators at Suspension tower of 220 KV line (Excluding Material & Transportation cost)	Per string	4160
OM17-12	OM17	12	Replacement of insulators at Tension tower of 220 KV line (Excluding Material & Transportation cost)	Per string	7350
OM18-13	OM18	13	Replacement of 132 KV line single suspension insulator string with double suspension insulator strings (Excluding Material & Transportation cost)	Per string	5660
OM19-14	OM19	14	Replacement of 132 KV line single tension insulator string with double tension insulator strings (Excluding Material & Transportation cost)	Per string	9590
OM20-15	OM20	15	Replacement of 220 KV line single suspension insulator string with double suspension insulator strings (Excluding Material & Transportation cost)	Per string	6020
OM21-16	OM21	16	Replacement of 220 KV line single tension insulator string with double tension insulator strings (Excluding Material & Transportation cost)	Per string	11020
OM22-17	OM22	17	Replacememt of insulators at Suspension tower of 400kV line (Excluding material & Transportation cost )	Per string	5640
OM23-18	OM23	18	Replacememt of insulators at Tension tower of 400kV line (Excluding material & Transportation cost )	Per string	9400
OM24-19	OM24	19	Painting the welded portion of GI bolts and nuts of towers In the section ground level and up to X-arm level including all bolts connecting the bracings at the bottom x-arm level with one coat of zinc rich paint including cost of paing.	Each	6
OM25-18	OM25	18	Fixing of earth bonds for existing transmission line towers	Each	182
		19	Re-Stringing of power conductor on the existing lines (for		
OM26-A	OM26	a	3 Nos. Zebra conductors	RKM	45820
OM27-B	OM27	b	6 Nos. Zebra conductors	RKM	68720
OM28-C	OM28	c	2 Nos. Panther conductors	RKM	24430
OM29-D	OM29	d	3 Nos. Panther conductors	RKM	36650
OM30-E	OM30	e	6 Nos. Panther conductors	RKM	58040
OM31-F	OM31	f	2 Nos. Moose conductors	RKM	38690
OM32-G	OM32	g	3 Nos. Moose conductors	RKM	58040

**ANNEXURE -IX ::::: O&M works of EHT Lines & Substations**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Item No.</b>	<b>Description of work</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
(1)	(2)		(3)	(4)	(5)
OM33-H	OM33	h	6 Nos. Moose conductors	RKM	91630
OM34-I	OM34	i	3 Nos. Bear conductors	RKM	45820
OM35-J	OM35	j	6 Nos. Bear conductors	RKM	68720
OM36-K	OM36	k	3 Nos. Dog conductors	RKM	27490
OM37-L	OM37	l	6 Nos. Dog conductors	RKM	43520
		21	<b><i>Loading / Unloading charges :</i></b>		
		(a)	For above half drum and up to one drum full drum rate		
OM38-22	OM38	22	Paining for equipment for substation	Sq. Mtrs.	293
OM39-23-I OM39-23I-II	OM39	23(i)	Power Trasformers cooling fans rewinding and repair	LS	i. For less than 1H.P rate is Rs.5380.00 ii. For more than 1 H.P & up to 5 H.P rate is Rs.7680.00
OM40-23-II OM40-23-II-II	OM40	23(ii)	Compressor motor for breaker	LS	
OM41-23-III OM41-23-III-II	OM41	23(iii)	Exhaust fans in battery room	LS	
	OM42	24	Number plates, Phase plates,Danger boards etc. for O&M works	Sets	

**ANNEXURE -X ::::: Erection of Telecom Equipment/Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
	(1)	(2)	(3)	(4)
TEL SL : 1	1	Erection of Single/ Twin Channel PLCC panel in 400KV/220KV/132KV SS	Each	8660
TEL SL : 1-I	1-I	Testing & Commissioning of Single/Twin Channel PLCC Panel in 400KV/220KV/132KV SS as per SAT approval.	Each	8710
TEL SL : 2	2	Erection of LMU/LMDU(Phase to Ground/Phase to Phase Coupling Units)	Each	1450
	3	Erection of Wave Trap		
TEL SL : 3-I	i	Fixing of 3150A/2000A Wavetrap on pedestal mounting insulator stack in 400KVSS	Each	8090
TEL SL : 3-II	ii	Fixing of 1250A/800A Wave trap on pedestal mounting insulator stack in 200KVSS	Each	6560
TEL SL : 3-III	iii	Fixing of 630A wave trap on Suspension mounting including jumpering in 132KVSS	Each	3910
TEL SL : 4	4	Erection of PLCC 48V DC/(50A/ 35A) (1+1)/(1+0) charger in 400kVSS/220kVSS/132KVSS	Each	4000
TEL SL : 4-I	4-I	Testing & Commissioning of PLCC 48V DC/(50A/35A) (1+1)/(1+0) charger in 400kVSS/220kVSS/132KVSS as per SAT approval.	Each	10360
TEL SL : 5	5	Erection of PLCC 48V DC/100A (1+1)/(1+0) charger in 400kVSS/220kVSS/132KVSS	Each	7990
TEL SL : 5-I	5-I	Testing & Commissioning of PLCC 48V DC/100A (1+1)/(1+0) charger in 400kVSS/220kV SS/ 132KVSS as per SAT approval.	Each	10360
TEL SL : 6	6	Erection of 48V/(200AH/250AH/300AH) battery sets in 400kVSS/220kVSS/ 132KVSS	Each	5860
TEL SL : 7	7	Erection of 48V/(400/425/450AH) battery set in 400 KV SS/220KVSS/132kVSS	Each	7030
TEL SL : 8	8	Erection of OLTE& MUX (SDH&PDH)/OLTE( Only SDH)/MUX(Only PDH), Optical line terminal equipment	Each	8660
TEL SL : 8-I	8-I	Testing & Commissioning of OLTE&MUX(SDH &PDH), Optical Line Terminal Equipment as per SAT approval	Each	13160
TEL SL : 8-II	8-II	Testing & Commissioning of OLTE only( Only SDH), Optical Line Terminal Equipment as per SAT approval	Each	6580
TEL SL : 8-III	8-III	Testing & Commissioning of MUX only(Only PDH) Equipment as per SAT approval	Each	6580
TEL SL : 9	9	Erection of <b>12FFODP</b> (Fibre Optic Distribution Panel) in 400KVSS/220KVSS/132KV SS and accessories including splicing.	Each	5390
TEL SL : 10	10	Erection of <b>24FFODP</b> (Fibre Optic Distribution Panel in 400KVSS/220KVSS/132KV SS and accessories including splicing.	Each	9720
TEL SL : 11	11	Erection of <b>48F FODP</b> (Fibre Optic Distribution Panel in 400KVSS/220KVSS/132KV SS (48F) and accessories including splicing.	Each	18370
TEL SL : 11-I	11-I	Erection of 19/42 U Rack for fixing of FODP	Each	3580

**ANNEXURE -X ::::: Erection of Telecom Equipment/Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
	(1)	(2)	(3)	(4)
TEL SL : 11-II	11-II new	Erection of 96F FODP (Fibre Optic Distribution Panel in 400KVSS/220KVSS/132KV SS (96F) and accessories including splicing.	Each	25710
TEL SL : 12	12	Erection of EPAX equipment with (16/16 with E1)/(16/16)/(8/8) capacity in 400KV/220KV/132KV SS	Each	3580
TEL SL : 12-II	12-II	Testing & Commissioning of (16/16 with E1)/(16/16)/(8/8) EPAX equipment in 400KV/ 220KV/ 132KV SS as per SAT approval	Each	5990
TEL SL : 13	13	Erection of RTU(Remote Terminal Unit) panel in 400KV/220KV/132KV SS	Each	22000
TEL SL : 13-I	13-I	Testing & Commissioning of RTU(Remote Terminal Unit) panel in 400KV/220KV/132KV SS as per SAT approval	Each	44980
TEL SL : 14	14	Erection of Digital/Analog Tele protection coupler equipment in 400KV/220KV/132KV SS	Each	3580
TEL SL : 14-I	14-I	Testing & Commissioning of Digital/Analog Tele protection coupler equipment in 400KV/220KV/ 132KV SS as per SAT approval	Each	5810
TEL SL : 15	15	Laying of 96F/48F/24F Optical Fibre Approach Cable (OFAC) along with HDPE pipe& accessories in switch yards of 400KVSS, 220KVSS & 132KVSS.	KM	24060
TEL SL : 15-I	15-I	Laying of 96F/48F/24F Optical Fibre Approach Cable(OFAC) <b>in existing</b> HDPE pipe in switch yards of 400KVSS, 220KVSS & 132KVSS	KM	12030
TEL SL : 16	16	Laying of HDPE Pipe&accessories for OFAC in switch yards of 400KVSS, 220KVSS & 132KVSS.	KM	12030
TEL SL : 17	17	Stringing(laying) of One(1)no. 24F/48F/96F OPGW cable on 132KV, 220KV and 400 KV lines including Laying, Tensioning and Splicing etc., with necessary hardware accessories. (OFF LINE/LIVE LINE)	KM	72610
TEL SL : 17-I	17-I	Stringing(laying) of Two(2)no. 24F/48F/96F OPGW cable on 132KV, 220KV and 400 KV lines in 2(Two) peaks including Laying,Tensioning and Splicing etc., with necessary hardware accessories.(OFF LINE/LIVE LINE)	KM	108920
TEL SL : 17-II	17-II	Stringing of One(1)no.24F/48F/96F OPGW cable on 132KV, 220KV and 400 KV lines. <b>(Without Jointing/Splicing)</b> (OFF LINE/LIVE LINE)(For O&M rectification Works with sectional lengths up to 5 kMs only)	KM	69290
TEL SL : 18	18	Stringing of ADSS type optical fibre cable (12F/24F/48F capacity) on 132KV, 220KV, 400KV line sections inclusive of Laying, Tensioningand Splicing etc., with fixing of necessary hardware accessories	KM	42060
TEL SL : 18-I	18-A	Stringing of ADSS type optical fibre cable (12F/ 24F/ 48F capacity) on 132KV, 220KV, 400KV lines <b>(WithoutJointing/ Splicing)</b> (For O&M rectification Works with line lengths less than <b>5kMs</b> only)	KM	38750

**ANNEXURE -X ::::: Erection of Telecom Equipment/Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
(1)	(2)		(3)	(4)
TEL SL : 19	19	Fixing of tension clamp set of ADSS/OPGW OFC on 132KV & 220KV towers	Per set	2880
TEL SL : 20	20	Fixing of suspension clamp set of ADSS/OPGW OFC on 132KV, 220KV towers	Per set	2380
TEL SL : 21	21	Fixing of tension clamp set of OPGW/ADSS OFC on 400KV lines	Per set	3490
TEL SL : 22	22	Fixing suspension clamp set of OPGW/ADSS OFC on 400KV lines	Per set	2980
TEL SL : 23	23	Fixing of ADSS/OPGW OFC splice box on 132KV & 220KV towers along with fixing of Down lead Clamps and other accessories.	Each	4340
TEL SL : 24	24	Fixing of OPGW/ADSS OFC splice box on 400KV towers along with fixing of Down lead Clamps and other accessories.	Each	5420
TEL SL : 25	25	Fixing of Vibration dampers for ADSS/OPGW OFC on 132KV & 220KV line	Per set	1350
TEL SL : 26	26	Fixing of Vibration dampers for OPGW/ADSS OFC on 400KV line	Per set	1720
TEL SL : 27	27	Splicing charges for OPGW/ADSS/UG OF Cables/OF Cable laid on 132KV, 220KV, 400KV lines, substations and Offices.	Each fibre splice	361
TEL SL : 32	32	Laying of aerial type OFC (12/24/48F) on 33KV/11KV HT/LT poles	KM	13940
	33	Item Deleted		0
TEL SL : 33-I	33-I	Laying of 10/20 pair armoured/unarmouredjelly filled telephone cable in the trenches in 132KV, 220KV & 400KV Substations	KM	22070
TEL SL : 34	34	Laying of Cat 6 UTP Cables in Offices and Substations.	KM	5410
TEL SL : 35	35	Laying of Cat 6 UTP Cables with Conduit pipes along with accessories in Offices and Substations.	KM	16220
TEL SL : 36	36	Fixing of 6U/9U/12U x 19 inch Rack in Offices and substations for ERP/SAP works	Each	451
	37	Item Deleted		0
TEL SL : 38	38	Laying of 25sq mm battery cable in control room in 132kV, 220KV & 400KV Substations and offices	KM	22980
TEL SL : 39	39	Laying of 125/75Ω(Ohm) Co-axial cable from switch yard gantry tower to Communication Room in the existing trench in 132kV,220kV & 400kV Substations	KM	22070
TEL SL : 40	40	Laying of 6 pair telephone cable on overhead poles LT & HT type	KM	8110
TEL SL : 41	41	Laying of single pair telephone cable on overhead poles LT & HT type	KM	8110
TEL SL : 42	42	Laying of RF cables in 132KV, 220KV & 400 KV SS	KM	22070
TEL SL : 43	43	Digging of 1 X 1 X 1 (Cu. Mtrs.) ducts for laying of telephone cable in 132KV, 220KV, 400KV SS	Cu. Mtrs.	840
TEL SL : 44	44	Excavation, refilling & closing of ducts of 1 X 1 X 1 (Cu. Mtrs.) in 132 KV, 220KV and 400 KV SS premises and in UG Lines	Cu. Mtrs.	1680

**ANNEXURE -X ::::: Erection of Telecom Equipment/Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
	(1)	(2)	(3)	(4)
TEL SL : 45	45	Erection of earth pit as per standards in 132KV, 220KV, 400KV SS for Communication purpose	Each	17410
	46	Item Deleted		0
	47	Item Deleted		0
TEL SL : 48	48	Dismantling of VSAT equipment in 132KV, 220KV&400 KV SS	Each	4120
	49	Loading/unloading charges for PLCC equipment in 132KV SS, 220KV/400KV in to vehicle		
TEL SL : 49-I	i	for single channel PLCC panel	Each	840
TEL SL : 49-II	ii	for Twin channel PLCC panel	Each	840
TEL SL : 50	50	Loading/Unloading charges for 48V/35A, 50A, chargers	Each	840
TEL SL : 51	51	Loading/Unloading charges for 48V/100A chargers	Each	1260
TEL SL : 52	52	Loading/Unloading charges for OLTE/MUX equipment	Each	1260
TEL SL : 53	53	Loading/Unloading charges for RTU panels	Each	1260
TEL SL : 54	54	Loading/Unloading charges for EPAXs	Each	421
	55	Loading/Unloading charges for Battery sets 48V/200AH, 250/300 AH, 400/425/450 AH		
TEL SL : 55-I	i	for 200 AH	Each	840
TEL SL : 55-II	ii	for 250/300 AH	Each	840
TEL SL : 55-III	iii	for 400/425/450AH	Each	1260
TEL SL : 56	56	Loading/unloading charges for LMUs	Each	421
	57	Loading/unloading charges for Wavetrap		
TEL SL : 57-I	i	132KV wave trap(630A/1.0mH Wavetrap)	Each	421
TEL SL : 57-II	ii	220KV Wave Traps ( 800A/1250A)	Each	840
TEL SL : 57-III	(iii)	400 KV Wave Traps ( 2000A/3150A)	Each	1260
	58	Dismantling of existing 48V PLCC chargers (35A, 50A, 100A)		
TEL SL : 58-I	i	35/50A (1+1)/(1+0) Charger	Each	2000
TEL SL : 58-II	ii	100A(1+1)/(1+0) Charger	Each	4000
TEL SL : 59	59	Dismantling of existing 48V/200AH, 250/300AH Battery sets	Each	4530
TEL SL : 60	60	Dismantling of existing 48V/(400/425/450) AH battery sets	Each	6030
	61	Dismantling of existing RTU, OLTE/MUX, PLCC equipment		
TEL SL : 61-I	i	RTU	Each	11000
TEL SL : 61-II	ii	OLTE/MUX/ PLCC Equipment	Each	4330

**ANNEXURE -X ::::: Erection of Telecom Equipment/Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
	(1)	(2)	(3)	(4)
TEL SL : 62	62	Dismantling of EPAXs	Each	1790
	63	Dismantling of wave traps on 132 KV/220KV/400 KV separately		
TEL SL : 63-I	i	3150A/2000A Wave Trap(400 KV)(50% of Erection charges)	Each	4050
TEL SL : 63-II	ii	1250A/800A Wave Trap (220 KV) (50 % of Erection charges)	Each	3280
TEL SL : 63-III	iii	630A Wave Trap (132 KV)(50% of Erection charges)	Each	1960
TEL SL : 64-N	64	Dismantling of 12F/24F ADSS cable from 132KV, 220KV, 400KV lines	KM	21030
TEL SL : 65-N	65	Dismantling of 24/48F/96F OPGW cable from 132KV, 220KV, 400KV lines (50 % of Erection & Commissioning Charges of OPGW Cable)	KM	36310
TEL SL : 66	66	Dismantling and bringing down of OPGW/ADSS OFC splice boxes on 132KV, 220KV towers	Each	2170
TEL SL : 67	67	Dismantling and bringing down of OPGW/ADSS OFC splice boxes on 400KV towers	Each	2710
TEL SL : 68	68	Hiring charges of 5 KVA Diesel Generator per day for attending OFC break down works	Each	1280
TEL SL : 69	69	Hiring charges of 230V AC inverter (2KVA) with battery backup for attending OFC break down works	Each	1280
TEL SL : 70	70	Hiring charges of 8X8X10(Cu. feet) closed tent shutter for attending splicing works for attending OFC break down works	Each	902
TEL SL : 71	71	Dismantling of VHF 30 ft masts with Guy wires etc.	Each	2640
TEL SL : 72	72	Dismantling of 10 ft/20 ft trylon masts	Each	2130
		<b>UGOF cabling works rates</b>		
		<b>UGFO Cabling</b>		
		<b>Survey &amp; documentation</b>		
TEL SL : 73	73	Survey of route, providing as built drawing, documentation for unarmoured underground optical fibre cable	KM	5340
		<b>Excavation &amp; Backfilling</b>		
TEL SL : 74	74	All types of soil, road, footpath, including PCC, sand, warning brick/stone, semi-circular RCC split cover etc. for underground fibre optic cable.	KM	213580
TEL SL : 75	75	Warning Tape (including supply and installation).	KM	32050
TEL SL : 76	76	Laying of PLB HDPE duct pipe O.D. 40mm along UG Cable	KM	15180
	77	Installation of HDPE pipe by <b>Trenchless digging</b>		
TEL SL : 77-A	(a)	0-10 mtrs	Mtrs.	854
TEL SL : 77-B	(b)	> 10 and up to 30 mtrs	Mtrs.	963
TEL SL : 77-C	(c)	More than 30 mtrs	Mtrs.	1070
TEL SL : 78	78	Laying of GI pipe 100mm (Nominal bore), Including accessories.	Mtrs.	272

**ANNEXURE -X ::::: Erection of Telecom Equipment/Material**

<b>SAP Code</b>	<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>SSR 2025-26 in (Rs.)</b>
(1)	(2)	(3)	(4)	
TEL SL : 79	79	Laying of RCC hume pipe (NP3), 100mm Diameter (Inside), Including accessories.	Mtrs.	408
TEL SL : 80	80	Blowing(laying)unarmoured UGOFC 24F/48F/96F (DWSM)in the existing HDPE duct in case of underground works	KM	32050
TEL SL : 81	81	Installation of Joint box in underground (Including splicing & testing) - 24 Fibers	Nos.	6680
TEL SL : 81-I	81-I	Installation of Joint box in underground (Including splicing & testing) - 48 Fibers	Nos.	13360
TEL SL : 81-II (new)	81-II	Installation of Joint box in underground (Including splicing & testing) - 96 Fibers		26720
TEL SL : 82	82	Erection of RCC Joint Chambers with 3/4th sand filling (850/800/50MM)(W/L/T)	Nos.	5690
TEL SL : 83	83	Installation of PLB HDPE pipe on wall in building premises including routing of OFC through it	Mtrs.	539
TEL SL : 84	84	Reinstatement of excavated area/damages (in road, pavement, footpath etc.)	Sq. Mtrs.	271
TEL SL : 85	85	Fixing of Main Distribution frame (100 pairs)	Nos.	2670
TEL SL : 86	86	Installation of 1.5 Ton Split type AC Units	Nos.	As per Govt. SOR
TEL SL : 87	87	Installation of 4kVA Stabilizer for AC Unit	Nos.	As per Govt. SOR
TEL SL : 88	88	Loading/Unloading of OPGW/ADSS/UG OFC/OFAC (upto 5 kms drum)	Each	2140
TEL SL : 89	89	Loading/Unloading of HDPE duct pipe (upto 500 mtrs drum)	Each	1070
TEL SL : 90	90	Laying of PLB HDPE pipe O.D. 110mm(Equivalent to GI pipe 100mm duct pipe)	Mtrs.	272
TEL SL : 91	91	Duct Integrity Test of PLB HDPE pipe	Mtrs.	37
TEL SL : 92	92	Dismantling of RCC Joint Chambers (850/800/50MM) (W/L/T)	Nos.	2850
	93	Fixing of 1 inch PVC Pipe & Casing with hardware accessories for SAP/ERP works	Mtrs.	12
	94	Fixing of 2 inch PVC Pipe & Casing with hardware accessories for SAP/ERP works	Mtrs.	14
	95	Fixing of CAT 6 I/O and Termination of CAT6 UTP Patch Panel along with I/Os for SAP/ERP works	Nos.	348
	96	Laying of 12 Core(Fiber) OF cable through trench	KM	13540
	98	Fixing of 2.5Sq mm 2/3 Core Copper Power Cable of 10 Mtrs along with One 16Amp Power Socket & Switch	Nos.	1070
	99	Earthing with 6/10/16 Sq.mm wiring with PVC pipe from the nearest earth pit with suitable lug	Nos.	1120

Annexure-XI ::::: Laying of 132KV UG Cable (Single Circuit)					
SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
		<b>1</b>	<b>CABLE ROUTE Survey</b>		
U1S1-A-N1	U1S 1	a)	Conducting reconnoiter and preliminary Survey along shortest route with best proposed route and furnishing report for selecting the best proposal for approval including cost and conveyance of all materials, hire charges of equipment, tools and plant, preparation of drawings and reports, labour charges, complete for finished item of work as per the directions of Engineer-in-charge at site as per SSR 2013-14. (a) With <b>DGPS</b> equipment (As per clause 4.9 of Survey) (b) With total station equipment.(per each route limited to 3 Cable Routes)	RKM	5840
U1S2-B	U1S 2	b)	Conducting Detailed Survey of cable route including evaluation of thermal resistivity of the soil along the cable route, excavation of Trial pits as per field requirements, preparation of cable route profile, drawings for cable laying, final route alignment, marking lines & grades and preparing bill of materials/ lengths of the cable for the project incl. preparation of PTCC questionnaire and marking of proposed cable route in Topo sheet, Tower/SS sketch, Single line diagram etc.(30 copies/sets). (NOTE: For Survey of small lengths of UG Cable, if the length of UG cable is less than 0.5KM, then 0.5KM is considered for Survey of small length of UG cable in the preparation of estimate) along with as built drawings	Mtrs.	636
		<b>2</b>	<b>LAYING OF CABLE</b>		
		<b>2.1</b>	Laying of 132 kV <b>630 / 1000 / 1200 Sq. mm.</b> XLPE U/G copper cable (3 Nos. for single Circuit) including road cutting, pulling and laying of cable including excavation in the following soils and back filling, sand filling dewatering, including cost of RCC protective tiles, cost of route markers, warning tapes etc. Across and along CC, BT & earth road, Nala crossings, bridge crossings, providing HDPE (thickness 10 mm)pipes, Bell mouths, end caps after laying cable, labour charges and all incidental items of work for finished item of work. This includes loading, unloading and transportation of all materials to work spot. (flat formation) <b>(With Trench width of 1 Meter) (as per the approved drawing) (Including providing RFID markers @ 25 Meters interval and as per the field requirement)</b>		

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
U1S3-A	U1S 3	a)	Hard gravel soils, BC soils, red earth, stone and earth mixed with fair size boulders etc	RMT	7510
U1S4-B	U1S 4	b)	Hard Rock with soils	RMT	11570
U1S5-C	U1S 5	c)	CC or BT road surface etc.	RMT	8420
U1S7-E	U1S 7	e)	CC or BT road with Hard rock	RMT	16080
U1S8-F	U1S 8	f)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	10560
U1S9-G	U1S 9	g)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road with hard rock and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	21910
U1S10-H	U1S 10	h)	Cable laying in built up trenches, cable trays and supports etc. complete including cost of trays and support etc, complete.	RMT	10560
U1S11-I	U1S 11	i)	Cable laying across the culverts and over bridges etc., complete in HDPE(10mm thickness) pipes of 250 mm dia in complete	RMT	10560
U1S12-J	U1S 12	j)	Cable laying by clamping on special type Tower including earthing cable from termination to Link box including cost of Aluminum clamps	RMT	10160
U1S13-K	U1S 13	k)	Cable laying while clamping bare on the walls, ceiling and structures including cost of clamps in complete shape	RMT	3810
U1S15-M	U1S 15	m)	Cable laying by clamping on Sub-station structures like CPL etc., including earthing cable from termination to Link box including cost of Aluminum clamps.	RMT	1900
U1S20-2.4	U1S 20	<b>2.4</b>	Only excavation and back filling of soil without laying of cable	RMT	1900
U1S21-2.5	U1S 21	<b>2.5</b>	Excavation and backfilling of suitable thermal backfill for maintainings soil thermal resistance value of 120 degrees	Cum.	5080
U1S22-2.6	U1S 22	<b>2.6</b>	Laying of cable excluding excavation and backfilling	RMT	508
		<b>2.7</b>	<b>Laying of cable by Horizontal Directional Drilling (HDD) incl. cost of 250 mm HDPE Pipe</b>		
U1S23-A	U1S 23	a)	Soil/Morrem, soft rock (upto 5000 PSI) per each pipe	RMT	12440
U1S24-B	U1S 24	b)	Soil/Hard rock (5000 PSI upto 9000 PSI) per each pipe	RMT	20310
		<b>3</b>	<b>LAYING OF CO-AXIAL/SINGLE CORE BONDING CABLE per each cable</b>		
U1S25-A	U1S 25	a)	300 Sq.mm. co-axial copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	19

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
U1S26-B	U1S 26	b)	300 Sq.mm.single core copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	19
U1S27-C	U1S 27	c)	300 Sq.mm. co-axial copper cable conductor PVC insulated 6.6kV grade on pole mounted termination Tower including cost of cleats	RMT	19
U1S28-D	U1S 28	d)	300 Sq.mm.single core copper cable conductor PVC insulated 6.6kV grade on pole mounted termination Tower including cost of cleats.	RMT	19
		<b>4</b>	For pulling optical fiber cable the following items shall be done while excavation of trenches as per specifications		
U1S29-A	U1S 29	a)	Supply of HDPE duct pipe of OD/ID 40/33 mm dia and associated material of standard make as per the specification of the contract/tender and laying jointing, bedding of above HDPE duct pipe in the already excavated XLPE cable trench including sealing the section ends as per the specification of the contract/tender.	RMT	As per telecom rates
U1S30-B	U1S 30	b)	Supply of RCC joint chambers (1200/760/50 mm) W/L/T with base and top plates as per the specification of the contract/tender and erection of RCC joint chambers for every 0.5KM in HDPE duct enroot as per the specification of the contract/tender.	Each	As per telecom rates
		<b>5</b>	<b>CABLE JOINTING</b>		
U1S31-A	U1S 31	a)	Construction of cable Joint bay of size (9mX2m) of single phase which includes excavation of pit, providing Cement concrete base, walls, slabs (CC:1:2:4) including cost of Cement, steel etc., labour charges and all incidental items of work for finished item of work including design of pit providing joint bay identification mark.This includes fine sand filling, after completion of the jointing, as per the drawing.	Nos.	380830
U1S32-B	U1S 32	b)	Jointing charges for cross bonding joints/normal joints excluding cost of joints including providing necessary T&P for jointing viz., weather proof tent / container, DG Set, Air Conditioner etc., complete wherever necessary for complete item of work. This includes loading, un-loading and transportation of all materials to work spot as per approved drawings of jointing	Nos.	95210
		<b>6</b>	<b>TERMINATION CHARGES</b>		

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
			Termination of cable excluding cost of out door type cable terminations and single phase link boxes without SVL complete and all incidental item of work finished item of work including providing necessary T&P viz., tarpaulin tent, DG set, air conditioner, scaffolding etc complete wherever necessary for complete item of work. <b><u>(Excluding the cost of the foundations and stuctures)</u></b>		

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
U1S33-A-N	U1S 33	a)	132 kV Tower mounted type cable end terminations including erection on Tower in all respects	Each	222150
U1S34-B-N	U1S 34	b)	132 kV Outdoor type cable end terminations with silicon materials complete in all respect.	Each	190410
U1S35-C-N	U1S 35	c)	132 kV SF6 type cable end terminations complete in all respect.	Each	152330
U1S36-7A	U1S 36	7a	Providing earthing of joint bays with copper flat of cross section of (50 X 6 mm) equivalent to the earthing cable and run all around the joint bay, providing earth electrodes of steel rods coated with copper of (25 mm dia.) as per standards and treated with suitable earth enhancing compound to get an effective diameter and welding the copper flat to the electrodes by exothermic welding. The earthing scheme drawing shall be got approved with all earth resistance calculations considering the fault currents earth leads from link box to earth pit and connecting lug fixtures, fasteners shall be supplied. Length of the earth lead will be as per Approved Drawings (site condition/ convenience).	Each	42840
U1S37-7B	U1S 37	7b	Excavation of earth pit, putting cast iron pipe with flange on one end (as per ISS7181/86) of nominal dia 125mm and 2.75 meters long in side the pit including supply and fixing RCC collars 0.75 meter dia (OD), 50mm thick and 0.60meters long in side the pit, backfill the pit in the 25mm size granules of BH coke for full depth of the pit with alternate layers of BH coke and salt of 300mm thick around the earth pipe of 150mm on all the sides of the pipe including cost and conveyance of BH coke, salt, clamps, C.I.Pipes and RCC collars, labour charges for all operational and incidental items of work etc., complete.	Each	16120
U1S38-8A	U1S 38	8a	Provision for RCC (1:2:4) for any unforeseen requirement whenever necessary at culverts, drains, nallas, bridges.(rate to be taken as per CSSR)	Cum.	Rate to be taken as per CSSR
U1S39-8B	U1S 39	8b	Supplying, fitting and placing of HYSD, TMT bar reinforcement (TISCO/SAIL/VSP) in foundations, columns, beams slabs wherever necessitated for the work as per the drawings furnished by the field engineer including cutting, bending, cranking, tying grill in position including cost of binding wire scaffolding etc.(rate to be taken as per CSSR)	MT	Rate to be taken as per CSSR

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
		9	<b>CONNECTION OF LINK BOXES</b>		
U1S40-A	U1S 40	a)	Erection of single phase link boxes, providing suitable supporting arrangements, sheath bonding cable, connecting earth leads, with all lugs, fixtures, clamps, bolts and nuts etc., complete including earthing as per the directions of site engineer.	Each	16970
U1S41-B	U1S 41	b)	Erection of 3 phase link boxes making connections with earth leads with lugs, fixtures, fasteners sheath bonding cable etc.,and refilling, etc. including excavation, providing RCC concrete wall box of 150mm thick for inserting link boxes / provinding of structure and earthing as per the directions of site engineer.	Each	61080
U1S42-10	U1S 42	10	Erection of Lightning Arrestors on special type Tower including cost of hardware, jumpering with suitable conductor between line conductor and the pole mounted terminations including labour charges and insurance for all incidental and operational items of work.	Each	7640
U1S44-11-N	U1S 44	11	Site testing and commissioning (including phase sequence test, megger test, continuity test etc.)	KM	56560

**Annexure-XII :::: Laying of 132KV UG Cable (Double Circuit)**

<b>SAP code</b>	<b>Item No.</b>	<b>Sl. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>	
(1)	(2)	(3)		(4)	(5)	
		<b>1</b>	<b>CABLE ROUTE Survey</b>			
U1D1-A-N1	U1D 1	a)	Conducting reconnoiter and preliminary Survey along shortest route with best proposed route and furnishing report for selecting the best proposal for approval including cost and conveyance of all materials, hire charges of equipment, tools and plant, preparation of drawings and reports, labour charges, complete for finished item of work as per the directions of Engineer-in-charge at site as per SSR 2013-14. (a) With <b>DGPS</b> equipment (As per clause 4.9 of Survey) (b) With total station equipment..(per each route limited to 3 Cable Routes)	RKM	5840	
U1D2-B	U1D 2	b)	Conducting Detailed Survey of cable route including evaluation of thermal resistivity of the soil along the cable route, excavation of Trial pits as per field requirements, preparation of cable route profile, drawings for cable laying, final route alignment, marking lines & grades and preparing bill of materials/ lengths of the cable for the project incl. preparation of PTCC questionnare and marking of proposed cable route in Topo sheet, Tower/SS sketch, Single line diagram etc.(30 copies/sets). (NOTE: For Survey of small lengths of UG Cable, if the length is less than 0.5KM, then 0.5KM is considered in preparation of estimate). along with as built drawings	Mtrs.	848	
		<b>2</b>	<b>LAYING OF CABLE</b>			
		<b>2.1</b>	Laying of 132 KV <b>630 / 1000 / 1200 Sq. mm.</b> XLPE U/G copper cable (6 Nos. for double Circuit) including road cutting, pulling and laying of cable including excavation in the following soils and back filling, sand filling dewatering, including cost of RCC protective tiles, cost of route markers, warning tapes etc. Across and along CC, BT & earth road, Nala crossings, bridge crossings, providing HDPE (thickness 10 mm)pipes, Bell mouths, end caps after laying cable, labour charges and all incidental items of work for finished item of work. This includes loading, unloading and transportation of all materials to work spot. (flat formation) <b>(With Trench width of 2 Meter) (as per the approved drawing) (Including providing RFID markers @ 25 Meters interval and as per the field requirement)</b>			

**Annexure-XII :::: Laying of 132KV UG Cable (Double Circuit)**

<b>SAP code</b>	<b>Item No.</b>	<b>Sl. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
(1)	(2)	(3)	(4)	(5)	
U1D3-A	U1D 3	a)	Hard gravel soils, BC soils, red earth, stone and earth mixed with fair size boulders etc	RMT	12700
U1D4-B	U1D 4	b)	Hard Rock with soils	RMT	20310
U1D5-C	U1D 5	c)	CC or BT road surface etc.	RMT	15230
U1D7-E	U1D 7	e)	CC or BT road with Hard rock	RMT	24850
U1D8-F	U1D 8	f)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	19040
U1D9-G	U1D 9	g)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road with hard rock and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	30470
U1D10-H	U1D 10	h)	Cable laying in built up trenches, cable trays and supports etc. complete including cost of trays and support etc, complete.	RMT	19040
U1D11-I	U1D 11	i)	Cable laying across the culverts and over bridges etc., complete in HDPE pipes (10mm thickness) of 250 mm dia in complete	RMT	19040
U1D12-J	U1D 12	j)	Cable laying by clamping on special type Tower including earthing cable from termination to Link box including cost of Aluminum clamps	RMT	20310
U1D13-K	U1D 13	k)	Cable laying while clamping bare on the walls, ceiling and structures including cost of clamps in complete shape	RMT	7620
U1D15-M	U1D 15	m)	Cable laying by clamping on Sub-station structures like CPL etc., including earthing cable from termination to Link box including cost of Aluminum clamps.	RMT	3810
U1D20-2.4	U1D 20	<b>2.4</b>	Only excavation and back filling of soil without laying of cable	RMT	3810
U1D21-2.5	U1D 21	<b>2.5</b>	Excavation and backfilling of suitable thermal backfill for maintainings soil thermal resistance value of 120 degrees	Cum	10160
U1D22-2.6	U1D 22	<b>2.6</b>	Laying of cable excluding excavation and backfilling	RMT	1020
		<b>2.7</b>	<b>Laying of cable by Horizontal Directional Drilling (HDD) incl. cost of 250 mm HDPE Pipe</b>		
U1D23-A	U1D 23	a)	Soil/Morrem, soft rock (upto 5000 PSI) per each pipe	RMT	12440

**Annexure-XII :::: Laying of 132KV UG Cable (Double Circuit)**

<b>SAP code</b>	<b>Item No.</b>	<b>Sl. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
(1)	(2)	(3)	(4)	(5)	
U1D24-B	U1D 24	b)	Soil/Hard rock (5000 PSI upto 9000 PSI) per each pipe	RMT	20310
		<b>3</b>	<b>LAYING OF CO-AXIAL/SINGLE CORE BONDING CABLE per each cable</b>		
U1D25-A	U1D 25	a)	300sq.mm. co-axial copper cable conductor PVC insulated 6.6kV grade across the cable. For each cable	RMT	23
U1D26-B	U1D 26	b)	300sq.mm.single core copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	23
U1D28-D	U1D 28	d)	300sq.mm.single core copper cable conductor PVC insulated 6.6kV grade on pole mounted termination Tower including cost of cleats.	RMT	23
		<b>4</b>	For pulling optical fiber cable the following items shall be done while excavation of trenches as per specifications		
U1D29-A	U1D 29	a)	Supply of HDPE duct pipe of OD/ID 40/33 mm dia and associated material of standard make as per the specification of the contract/tender and laying jointing, bedding of above HDPE duct pipe in the already excavated XLPE cable trench including sealing the section ends as per the specification of the contract/tender.	RM	As per Telecom rates
U1D30-B	U1D 30	b)	Supply of RCC joint chambers (1200/760/50 mm) W/L/T with base and top plates as per the specification of the contract/tender and erection of RCC joint chambers for every 0.5KM in HDPE duct enroot as per the specification of the contract/tender.	Each	As per Telecom rates
		<b>5</b>	<b>CABLE JOINTING</b>		
U1D31-A	U1D 31	a)	Construction of cable Joint bay of size (9mX4m) of single phase which includes excavation of pit, providing Cement concrete base, walls,slabs (CC:1:2:4) including cost of Cement, steel etc., labour charges and all incidental items of work for finished item of work including design of pit providing joint bay identification mark.This includes fine sand filling, after completion of the jointing, as per the drawing.	Nos.	571240

**Annexure-XII :::: Laying of 132KV UG Cable (Double Circuit)**

<b>SAP code</b>	<b>Item No.</b>	<b>Sl. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
	(1)	(2)	(3)	(4)	(5)
U1D32-B	U1D 32	b)	Jointing charges for cross bonding joints/normal joints excluding cost of joints including providing necessary T&P for jointing viz., weather proof tent / container, DG Set, Air Conditioner etc., complete wherever necessary for complete item of work. This includes loading, un-loading and transportation of all materials to work spot as per approved drawings of jointing	Nos.	95210

**Annexure-XII :::: Laying of 132KV UG Cable (Double Circuit)**

<b>SAP code</b>	<b>Item No.</b>	<b>Sl. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
(1)	(2)		(3)	(4)	(5)
		6	<b>TERMINATION CHARGES</b>		
			Termination of cable excluding cost of out door type cable terminations and single phase link boxes without SVL complete and all incidental item of work finished item of work including providing necessary T&P viz., tarpaulin tent, DG set, air conditioner, scaffolding etc complete wherever necessary for complete item of work. <b>(Excluding the cost of the foundations and stuctures)</b>		
U1D33-A-N	U1D 33	a)	132 KV Tower mounted type cable end terminations including erection on Tower in all respects	Each	222150
U1D34-B-N	U1D 34	b)	132 KV Outdoor type cable end terminations with silicon materials complete in all respect.	Each	190410
U1D35-C-N	U1D 35	c)	132 KV SF6 type cable end terminations complete in all respect.	Each	152330
U1D36-7A	U1D 36	7a	Providing earthing of joint bays with copper flat of cross section (50 X 6 mm) equivalent to the earthing cable and run all around the joint bay, providing earth electrodes of steel rods coated with copper (25 mm dia.) as per standards and treated with suitable earth enhancing compound to get an effective diameter and welding the copper flat to the electrodes by exothermic weldng. The earthing scheme drawing shall be got approved with all eath resistance calculations considerting the fault currents earth leads from link box to earth pit and connecing lug fixtures, fasteners shall be supplied. Length of the earth lead will be as per approved drawings( site condition/ convenience).	Each	68550
U1D37-7B	U1D 37	7b	Excavation of earth pit, putting cast iron pipe with flange on one end (as per ISS7181/86) of nominal dia 125mm and 2.75 meters long in side the pit including supply and fixing RCC collars 0.75 meter dia (OD), 50mm thick and 0.60meters long in side the pit, backfill the pit in the 25mm size granules of BHcoke for full depth of the pit with alternate layers of BH coke and salt of 300mm thick around the earth pipe of 150mm on all the sides of the pipe including cost and conveyance of BH coke, salt, clamps, C.I.Pipes and RCC collars, labour charges for all operational and incidental items of work etc., complete.	Each	16120

**Annexure-XII :::: Laying of 132KV UG Cable (Double Circuit)**

<b>SAP code</b>	<b>Item No.</b>	<b>Sl. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
					<b>(4)</b>
	<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>
U1D38-8A	U1D 38	8a	Provision for RCC (1:2:4) for any unforeseen requirement whenever necessary at culverts, drains, nala, bridges.(rate to be taken as per CSSR)	Cum	Rate to be taken as per CSSR
U1D39-8B	U1D 39	8b	Supplying, fitting and placing of HYSD, TMT bar reinforcement (TISCO/SAIL/VSP) in foundations, columns, beams slabs wherever necessitated for the work as per the drawings furnished by the field engineer including cutting, bending, cranking, tying grill in position including cost of binding wire scaffolding etc.(rate to be taken as per CSSR)	MT	Rate to be taken as per CSSR
		9	<b>CONNECTION OF LINK BOXES</b>		
U1D40-A	U1D 40	a)	Erection of single phase link boxes, providing suitable supporting arrangements, sheath bonding cable, connecting earth leads, with all lugs, fixtures, clamps, bolts and nuts etc., complete including earthing as per the directions of site engineer.	Each	16970
U1D41-B	U1D 41	b)	Erection of 3 phase link boxes making connections with earth leads with lugs, fixtures, fasteners sheath bonding cable etc., including excavation, providing RCC concrete wall box of 150mm thick for inserting link boxes / providing of structure and refilling, etc. including earthing as per the directions of site engineer.	Each	61080
U1D42-10	U1D 42	10	Erection of Lightning Arrestors on special type Tower including cost of hardware, jumpering with suitable conductor between line conductor and the pole mounted terminations including labour charges and insurance for all incidental and operational items of work.	Each	7640
U1D44-11-N	U1D 44	11	Site testing and commissioning (including phase sequence test, megger test, continuity test etc.)	KM	84840

**Annexure-XIII :::: Laying of 220KV UG Cable (Single Circuit)**

<b>SAP Code</b>	<b>Item No.</b>	<b>SI. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
			<b>(3)</b>		
		<b>1</b>	<b>CABLE ROUTE Survey</b>		
U2S1-A-N1	U2S 1	a)	Conducting reconnoiter and preliminary Survey along shortest route with best proposed route and furnishing report for selecting the best proposal for approval including cost and conveyance of all materials, hire charges of equipment, tools and plant, preparation of drawings and reports, labour charges, complete for finished item of work as per the directions of Engineer-in-charge at site as per SSR 2013-14. (a) With <b>DGPS</b> equipment (As per clause 4.9 of Survey) (b) With total station equipment..(per each route limited to 3 Cable Routes)	RKM	5840
U2S2-B	U2S 2	b)	Conducting Detailed Survey of cable route including evaluation of thermal resistivity of the soil along the cable route, excavation of Trial pits as per field requirements, preparation of cable route profile, drawings for cable laying, final route alignment, marking lines & grades and preparing bill of materials/ lengths of the cable for the project incl. preparation of PTCC questionnaire and marking of proposed cable route in Topo sheet, Tower/SS sketch, Single line diagram etc.(30 copies/sets). (NOTE: For Survey of small lengths of UG Cable, if the length of UG cable is less than 0.5KM, then 0.5KM is considered for Survey of small length of UG cable in the preparation of estimate) along with as built drawings	Mtrs.	636
		<b>2</b>	<b>LAYING OF CABLE</b>		
		<b>2.1</b>	Laying of 220 kV <b>1000 / 1200 Sq. mm.</b> XLPE U/G copper cable (3 Nos. for Single Circuit) including road cutting, pulling and laying of cable including excavation in the following soils and back filling, sand filling dewatering, including cost of RCC protective tiles, cost of route markers, warning tapes etc. Across and along CC, BT & earth road, Nala crossings, bridge crossings, providing HDPE (thickness 10 mm)pipes, Bell mouths, end caps after laying cable, labour charges and all incidental items of work for finished item of work. This includes loading, unloading and transportation of all materials to work spot. (flat formation) <b>(With Trench width of 1 Meter) (as per the approved drawing) (Including providing RFID markers @ 25 Meters interval and as per the field requirement)</b>		
U2S3-A	U2S 3	a)	Hard gravel soils, BC soils, red earth, stone and earth mixed with fair size boulders etc	RMT	7510
U2S4-B	U2S 4	b)	Hard Rock with soils	RMT	11570
U2S5-C	U2S 5	c)	CC or BT road surface etc.	RMT	8420
U2S7-E	U2S 7	e)	CC or BT road with Hard rock	RMT	16080
U2S8-F	U2S 8	f)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	10560
U2S8-A-G	U2S 8-A	g)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road with hard rock and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	24850
U2S9-H	U2S 9	h)	Cable laying in built up trenches, cable trays and supports etc. complete including cost of trays and support etc, complete.	RMT	10560

**Annexure-XIII :::: Laying of 220KV UG Cable (Single Circuit)**

<b>SAP Code</b>	<b>Item No.</b>	<b>SI. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
			<b>(3)</b>		
<b>(1)</b>	<b>(2)</b>		<b>(4)</b>		
U2S10-I	U2S 10	i)	Cable laying across the culverts and over bridges etc., complete in HDPE (10mm thickness) pipes of 250 mm dia in complete	RMT	10560
U2S11-J	U2S 11	j)	Cable laying by clamping on special type Tower including earthing cable from termination to Link box including cost of aluminum clamps	RMT	10160
U2S12-K	U2S 12	k)	Cable laying by clamping on Sub-station structures like CPL etc., including earthing cable from termination to Link box including cost of aluminum clamps.	RMT	1900
U2S13-L	U2S 13	l)	Cable laying while clamping bare on the walls, ceiling and structures including cost of clamps in complete shape	RMT	3810
		<b>2.2 Including excavation and excluding backfilling without cable laying</b>			
U2S19-2.4	U2S 19	<b>2.4</b>	Only excavation and back filling of soil without laying of cable	RMT	1900
U2S20-2.5	U2S 20	<b>2.5</b>	Excavation and backfilling of suitable thermal backfill for maintainings soil thermal resistance value of 120 degrees	Cum	5080
U2S21-2.6	U2S 21	<b>2.6</b>	Laying of cable excluding excavation and backfilling	RMT	508
		<b>2.7</b>	<b>Laying of cable by Horizontal Directional Drilling (HDD) incl. cost of 250 mm HDPE Pipe</b>		
U2S22-A	U2S 22	a)	Soil/Morrem, soft rock (upto 5000 PSI) per pipe	RMT	12440
U2S23-B	U2S 23	b)	Soil/Hard rock (5000 PSI upto 9000 PSI) per pipe	RMT	20310
		<b>3</b>	<b>LAYING OF CO-AXIAL CABLE/Single Core Bonding Cable per each cable</b>		
U2S24-A	U2S 24	a)	400 Sq.mm. co-axial copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	19
U2S25-B	U2S 25	b)	400 Sq.mm. single core copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	19
U2S27-D	U2S 27	d)	400 Sq.mm. single core copper cable conductor PVC insulated 6.6kV grade on pole mounted termination Tower including cost of cleats.	RMT	19
		<b>4</b>	For pulling optical fiber cable the following items shall be done while excavation of trenches as per specifications		
U2S28-A	U2S 28	a)	Supply of HDPE duct pipe of OD/ID 40/33 mm dia and associated material of standard make as per the specification of the contract/tender and laying jointing, bedding of above HDPE duct pipe in the already excavated XLPE cable trench including sealing the section ends as per the specification of the contract/tender (Per Pipe).	RM	As per Telecom rates
U2S29-B	U2S 29	b)	Supply of RCC joint chambers (1200/760/50 mm) W/L/T with base and top plates as per the specification of the contract/tender and erection of RCC joint chambers for every 0.5 KM in HDPE duct enroot as per the specification of the contract/tender.	Each	As per Telecom rates
		<b>5</b>	<b>CABLE JOINTING</b>		
U2S30-A	U2S 30	a)	Construction of cable Joint bay of size (13mX2m) of single phase which includes excavation of pit, providing Cement concrete base, walls,slabs (CC:1:2:4) including cost of Cement, steel etc., labour charges and all incidental items of work for finished item of work including design of pit providing joint bay identification mark.This includes fine sand filling, after completion of the jointing, as per the drawing.	Nos.	444300

**Annexure-XIII :::: Laying of 220KV UG Cable (Single Circuit)**

<b>SAP Code</b>	<b>Item No.</b>	<b>SI. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
			<b>(3)</b>		
<b>(1)</b>	<b>(2)</b>		<b>(3)</b>	<b>(4)</b>	
U2S31-B	U2S 31	b)	Jointing charges for cross bonding joints/normal joints excluding cost of joints including providing necessary T&P for jointing viz., weather proof tent / container, DG Set, Air Conditioner etc., complete wherever necessary for complete item of work. This includes loading, un-loading and transportation of all materials to work spot as per approved drawings of jointing	Nos.	158680
		<b>6 TERMINATION CHARGES</b>			
			Termination of cable excluding cost of out door type cable terminations and single phase link boxes without SVL complete and all incidental item of work finished item of work including providing necessary T&P viz., tarpaulin tent, DG set, air conditioner, scaffolding etc complete wherever necessary for complete item of work. <b>(Excluding the cost of the foundations and stuctures)</b>		
U2S32-A-N	U2S 32	a)	220 kV Tower mounted type cable end terminations including erection on Tower in all respects per phase including scaffolding charges.	Each	266580
U2S33-B-N	U2S 33	b)	220 kV Outdoor type cable end terminations with silicon materials complete in all respect.	Each	222150
U2S34-C-N	U2S 34	c)	220 kV SF6 type cable end terminations complete in all respect.	Each	177720
U2S35-7A	U2S 35	7a	Providing earthing of joint bays with copper flat of cross section (50 X 8 mm ) equivalent to the earthing cable and run all around the joint bay, providing earth electrodes of steel rods coated with copper (25 mm dia.) as per standards and treated with suitable earth enhancing compound to get an effective diameter and welding the copper flat to the electrodes by exothermic weldng. The earthing scheme drawing shall be got approved with all eath resistance calculations considering the fault currents earth leads from link box to earth pit and connecing lug fixtures, fasteners shall be supplied. Length of the earth lead will be as per approved drawing( site condition/ convenience).	Each	42840
U2S36-7B	U2S 36	7b	Excavation of earth pit, putting cast iron pipe with flange on one end (as per ISS7181/86) of nominal dia 125mm and 2.75 meters long in side the pit including supply and fixing RCC collars 0.75 meter dia (OD), 50mm thick and 0.60meters long in side the pit, backfill the pit in the 25mm size granules of BHcoke for full depth of the pit with alternate layers of BH coke and salt of 300mm thick around the earth pipe of 150mm on all the sides of the pipe including cost and conveyance of BH coke, salt, clamps, C.I.Pipes and RCC collars, labour charges for all operational and incidental items of work etc., complete.	Each	16120
U2S37-8A	U2S 37	8a	Provision for RCC (1:2:4) for any unforeseen requirement whenever necessary at culverts, drains, nallas, bridges.(rate to be taken as per CSSR)	Cum	Rate to be taken as per CSSR

**Annexure-XIII :::: Laying of 220KV UG Cable (Single Circuit)**

<b>SAP Code</b>	<b>Item No.</b>	<b>SI. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
			<b>(3)</b>		
U2S38-8B	U2S 38	8b	Supplying, fitting and placing of HYSD, TMT bar reinforcement (TISCO/SAIL/VSP) in foundations, columns , beams slabs wherever necessitated for the work as per the drawings furnished by the field engineer including cutting , bending, cranking, tying grill in position including cost of binding wire scaffolding etc.(rate to be taken as per CSSR)	MT	Rate to be taken as per CSSR
		9	<b>CONNECTION OF LINK BOXES</b>		
U2S39-A	U2S 39	a)	Erection of single phase link boxes, providing suitable supporting arrangements, sheath bonding cable, connecting earth leads, with all lugs, fixtures, clamps, bolts and nuts etc., complete including earthing as per the directions of site engineer including connecting to the earthing cable from link box to earthpit	Each	16970
U2S40-B	U2S 40	b)	Erection of 3 phase link boxes making connections with earth leads with lugs, fixtures, fasteners sheath bonding cable etc., including excavation, providing RCC concrete wall box of 150mm thick for inserting link boxes / providing of structure and refilling, and refilling, etc. including earthing as per the directions of site engineer including connecting to the earthing cable from link box to earthpit.	Each	61080
U2S41-10	U2S 41	10	Erection of Lightning Arrestors on special type Tower including cost of hardware, jumpering with suitable conductor between line conductor and the pole mounted terminations including labour charges and insurance for all incidental and operational items of work.	Each	7640
U2S43-11-N	U2S 43	11	Site testing and commissioning (including phase sequence test, megger test, continuity test, etc.)	KM	56560

Annexure - XIV :::: Laying of 220KV UG Cable (Double Circuit)					
SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
		<b>1</b>	<b>CABLE ROUTE Survey</b>		
U2D1-A-N1	U2D 1	a)	Conducting reconnoiter and preliminary Survey along shortest route with best proposed route and furnishing report for selecting the best proposal for approval including cost and conveyance of all materials, hire charges of equipment, tools and plant, preparation of drawings and reports, labour charges, complete for finished item of work as per the directions of Engineer-in-charge at site as per SSR 2013-14. (a) With <b>DGPS</b> equipment (As per clause 4.9 of Survey) (b) With total station equipment..(per each route limited to 3 Cable Routes)	RKM	5840
U2D2-B	U2D 2	b)	Conducting Detailed Survey of cable route including evaluation of thermal resistivity of the soil along the cable route, excavation of Trial pits as per field requirements, preparation of cable route profile, drawings for cable laying, final route alignment, marking lines & grades and preparing bill of materials/ lengths of the cable for the project incl. preparation of PTCC questionnaire and marking of proposed cable route in Topo sheet, Tower/SS sketch, Single line diagram etc.(30 copies/sets). (NOTE: For Survey of small lengths of UG Cable, if the length of UG cable is less than 0.5KM, then 0.5KM is considered for Survey of small length of UG cable in the preparation of estimate)along with as built drawings	Mtrs.	848
		<b>2</b>	<b>LAYING OF CABLE</b>		
		<b>2.1</b>	Laying of 220 KV <b>1000 / 1200 Sq. mm.</b> XLPE U/G copper cable (6 Nos. for double Circuit) including road cutting, pulling and laying of cable including excavation in the following soils and back filling, sand filling dewatering, including cost of RCC protective tiles, cost of route markers, warning tapes etc. Across and along CC, BT & earth road, Nala crossings, bridge crossings, providing HDPE (thickness 10 mm)pipes, Bell mouths, end caps after laying cable, labour charges and all incidental items of work for finished item of work. This includes loading, unloading and transportation of all materials to work spot. (flat formation) <b>(With Trench width of 2.2 Meters) (as per the approved drawing) (Including providing RFID markers @ 25 Meters interval and as per the field requirement)</b>		
U2D3-A	U2D 3	a)	Hard gravel soils, BC soils, red earth, stone and earth mixed with fair size boulders etc	RMT	15010
U2D4-B	U2D 4	b)	Hard Rock with soils	RMT	23140
U2D5-C	U2D 5	c)	CC or BT road surface etc.	RMT	16850
U2D7-E	U2D 7	e)	CC or BT road with Hard rock	RMT	32160
U2D8-F	U2D 8	f)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	21110

Annexure - XIV :::: Laying of 220KV UG Cable (Double Circuit)					
SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
U2D8-A-G	U2SD8-A	g)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road with hard rock and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	43820
U2D9-H	U2D 9	h)	Cable laying in built up trenches, cable trays and supports etc. complete including cost of trays and support etc, complete.	RMT	21110
U2D10-I	U2D 10	i)	Cable laying across the culverts and over bridges etc., complete in HDPE pipes(10mm thickness) of 250 mm dia in complete	RMT	21110
U2D11-J	U2D 11	j)	Cable laying by clamping on special type Tower including earthing cable from termination to Link box including cost of aluminum clamps	RMT	22850
U2D12-K	U2D 12	k)	Cable laying by clamping on Sub-station structures like CPL etc., including earthing cable from termination to Link box including cost of aluminum clamps.	RMT	5080
U2D13-L	U2D 13	l)	Cable laying while clamping bare on the walls, ceiling and structures including cost of clamps in complete shape	RMT	10160
U2D19-2.4	U2D 19	<b>2.4</b>	Only excavation and back filling of soil without laying of cable	RMT	3810
U2D20-2.5	U2D 20	<b>2.5</b>	Excavation and backfilling of suitable thermal backfill for maintainings soil thermal resistance value of 120 degrees	Cum.	10160
U2D21-2.6	U2D 21	<b>2.6</b>	Laying of cable excluding excavation and backfilling	RMT	1270
		<b>2.7</b>	<b>Laying of cable by Horizontal Directional Drilling (HDD) incl. cost of 250 mm HDPE Pipe</b>		
U2D22-A	U2D 22	a)	Soil/Morrem, soft rock (upto 5000 PSI) per pipe	RMT	12440
U2D23-B	U2D 23	b)	Soil/Hard rock (5000 PSI upto 9000 PSI) per pipe	RMT	20310
		<b>3</b>	<b>LAYING OF CO-AXIAL CABLE/SINGLE CORE BONDING Cable per each cable</b>		
U2D24-A	U2D 24	a)	400 sq.mm. co-axial copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	23
U2D25-B	U2D 25	b)	400 sq.mm.single core copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	23
U2D27-D	U2D 27	d)	400 sq.mm.single core copper cable conductor PVC insulated 6.6kV grade on pole mounted termination Tower including cost of cleats.	RMT	23
		<b>4</b>	For pulling optical fiber cable the following items shall be done while excavation of trenches as per specifications		
U2D28-A	U2D 28	a)	Supply of HDPE duct pipe of OD/ID 40/33 mm dia and associated material of standard make as per the specification of the contract/tender and laying jointing, bedding of above HDPE duct pipe in the already excavated XLPE cable trench including sealing the section ends as per the specification of the contract/tender (Per Pipe).	RMT	As per Telecom rates

Annexure - XIV :::: Laying of 220KV UG Cable (Double Circuit)					
SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)		(3)	(4)	
U2D29-B	U2D 29	b)	Supply of RCC joint chambers (1200/760/50 mm) W/L/T with base and top plates as per the specification of the contract/tender and erection of RCC joint chambers for every 0.5KM in HDPE duct enroot as per the specification of the contract/tender.	Each	As per Telecom rates
		<b>5</b>	<b>CABLE JOINTING</b>		
U2D30-A	U2D 30	a)	Construction of cable Joint bay of size (13mX4m) of single phase which includes excavation of pit, providing Cement concrete base, walls,slabs (CC:1:2:4) including cost of Cement, steel etc., labour charges and all incidental items of work for finished item of work including design of pit providing joint bay identification mark. This includes fine sand filling, after completion of the jointing, as per the drawing.	Nos.	647410
U2D31-B	U2D 31	b)	Jointing charges for cross bonding joints/normal joints excluding cost of joints including providing necessary T&P for jointing viz.weather proof tent / container, DG Set, Air Conditioner etc., complete wherever necessary for complete item of work. This includes loading, un-loading and transportation of all materials to work spot as per approved drawings of jointing	Nos.	158680
		<b>6</b>	<b>TERMINATION CHARGES</b>		
			Termination of cable excluding cost of out door type cable terminations and single phase link boxes without SVL complete and all incidental item of work finished item of work including providing necessary T&P viz., tarpaulin tent, DG set, air conditioner, scaffolding etc complete wherever necessary for complete item of work. <b>(Excluding the cost of the foundations and structures)</b>		
U2D32-A-N	U2D 32	a)	220 kV Tower mounted type cable end terminations including erection on Tower in all respects per phase including scaffolding charges.	Each	266580
U2D33-B-N	U2D 33	b)	220 kV Outdoor type cable end terminations with silicon materials complete in all respect.	Each	222150
U2D34-C-N	U2D 34	c)	220 kV SF6 type cable end terminations complete in all respect.	Each	177720
U2D35-7A	U2D 35	7a	Providing earthing of joint bays with copper flat of cross section (50 X 8mm) equivalent to the earthing cable and run all around the joint bay, providing earth electrodes of steel rods coated with copper (25 mm dia.) as per standards and treated with suitable earth enhancing compound to get an effective diameter and welding the copper flat to the electrodes by exothermic welding. The earthing scheme drawing shall be got approved with all earth resistance calculations considering the fault currents earth leads from link box to earth pit and connecting lug fixtures, fasteners shall be supplied. Length of the earth lead will be as per approved drawings ( site condition/ convenience).	Each	68550

Annexure - XIV :::: Laying of 220KV UG Cable (Double Circuit)						
SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)	
(1)	(2)		(3)	(4)		
U2D36-7B	U2D 36	7b	Excavation of earth pit, putting cast iron pipe with flange on one end (as per ISS7181/86) of nominal dia 125mm and 2.75 meters long in side the pit including supply and fixing RCC collars 0.75 meter dia (OD), 50mm thick and 0.60meters long in side the pit, backfill the pit in the 25mm size granules of BHcoke for full depth of the pit with alternate layers of BH coke and salt of 300mm thick around the earth pipe of 150mm on all the sides of the pipe including cost and conveyance of BH coke, salt, clamps, C.I.Pipes and RCC collars, labour charges for all operational and incidental items of work etc., complete.	Nos.	16120	
U2D37-8A	U2D 37	8a	Provision for RCC (1:2:4) for any unforeseen requirement whenever necessary at culverts, drains, nala, bridges.(rate to be taken as per CSSR)	Cum	Rate to be taken as per CSSR	
U2D38-8B	U2D 38	8b	Supplying, fitting and placing of HYSD, TMT bar reinforcement (TISCO/SAIL/VSP) in foundations, columns , beams slabs wherever necessitated.for the work as per the drawings furnished by the field engineer including cutting , bending, cranking, tying grill in position including cost of binding wire scaffolding etc.(rate to be taken as per CSSR)	MT	Rate to be taken as per CSSR	
		9	<b>CONNECTION OF LINK BOXES</b>			
U2D39-A	U2D 39	a)	Erection of single phase link boxes, providing suitable supporting arrangements, sheath bonding cable, connecting earth leads, with all lugs, fixtures, clamps, bolts and nuts etc., complete including earthing as per the directions of site engineer including connecting to the earthing cable from link box to earthpit	Each	16970	
U2D40-B	U2D 40	b)	Erection of 3 phase link boxes making connections with earth leads with lugs, fixtures, fasteners sheath bonding cable etc., including excavation, providing RCC concrete wall box of 150mm thick for inserting link boxes / providing of structure and refilling, and refilling, etc. including earthing as per the directions of site engineer including connecting to the earthing cable from link box to earthpit.	Each	61080	
U2D41-10	U2D 41	10	Erection of Lightning Arrestors on special type Tower including cost of hardware, jumpering with suitable conductor between line conductor and the pole mounted terminations including labour charges and insurance for all incidental and operational items of work.	Nos.	7640	
U2D43-12-N	U2D 43	12	Site testing and commissioning (including phase sequence test, megger test, continuity test, etc.)	KM	84840	

**Annexure-XV ::::: Laying of 220KV 2500 Sqmm UG Cable (Single Circuit)**

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
		<b>1</b>	<b>CABLE ROUTE Survey</b>		
U2S25-1-A	U2S25 1	a)	Conducting reconnoitering and preliminary Survey along shortest route with best proposed route and furnishing report for selecting the best proposal for approval including cost and conveyance of all materials, hire charges of equipment, tools and plant, preparation of drawings and reports, labour charges, complete for finished item of work as per the directions of Engineer-in-charge at site as per SSR 2013-14. (a) With <b>DGPS</b> equipment (As per clause 4.9 of Survey) (b) With total station equipment..(per each route limited to 3 Cable Routes)	RKM	5840
U2S25-2-B	U2S25 2	b)	Conducting Detailed Survey of cable route including evaluation of thermal resistivity of the soil along the cable route, excavation of Trial pits as per field requirements, preparation of cable route profile, drawings for cable laying, final route alignment, marking lines & grades and preparing bill of materials/ lengths of the cable for the project incl. preparation of PTCC questionnaire and marking of proposed cable route in Topo sheet, Tower/SS sketch, Single line diagram etc.(30 copies/sets). (NOTE: For Survey of small lengths of UG Cable, if the length of UG cable is less than 0.5KM, then 0.5KM is considered for Survey of small length of UG cable in the preparation of estimate) along with as built drawings	Mtrs.	636
		<b>2</b>	<b>LAYING OF CABLE</b>		
		<b>2.1</b>	Laying of 220 kV <b>2500 Sq. mm.</b> XLPE U/G copper cable (3 Nos. for Single Circuit) including road cutting, pulling and laying of cable including excavation in the following soils and back filling, sand filling dewatering, including cost of RCC protective tiles, cost of route markers, warning tapes etc. Across and along CC, BT & earth road, Nala crossings, bridge crossings, providing HDPE (thickness 10 mm)pipes, Bell mouths, end caps after laying cable, labour charges and all incidental items of work for finished item of work. This includes loading, unloading and transportation of all materials to work spot. (flat formation) ( <b>With Trench width of 1 Meter</b> ) ( <b>as per the approved drawing</b> ) ( <b>Including providing RFID markers @ 25 Meters interval and as per the field requirement</b> )		
U2S25-3-A	U2S25 3	a)	Hard gravel soils, BC soils, red earth, stone and earth mixed with fair size boulders etc	RMT	9760
U2S25-4-B	U2S25 4	b)	Hard Rock with soils	RMT	15040
U2S25-5-C	U2S25 5	c)	CC or BT road surface etc.	RMT	10950
U2S25-7-E	U2S25 7	e)	CC or BT road with Hard rock	RMT	20910
U2S25-8-F	U2S25 8	f)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	13720
U2S25-8-A-G	U2S25 8-A	g)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road with hard rock and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	32300
U2S25-9-H	U2S25 9	h)	Cable laying in built up trenches, cable trays and supports etc. complete including cost of trays and support etc, complete.	RMT	13720
U2S25-10-I	U2S25 10	i)	Cable laying across the culverts and over bridges etc., complete in HDPE (10mm thickness) pipes of 250 mm dia in complete	RMT	13720

**Annexure-XV ::::: Laying of 220KV 2500 Sqmm UG Cable (Single Circuit)**

<b>SAP Code</b>	<b>Item No.</b>	<b>Sl. No.</b>	<b>Description of Material / Work</b>	<b>UNIT</b>	<b>SSR for 2025-26 (in Rs.)</b>
<b>(1)</b>	<b>(2)</b>		<b>(3)</b>	<b>(4)</b>	
U2S25-11-J	U2S25 11	j)	Cable laying by clamping on special type Tower including earthing cable from termination to Link box including cost of aluminum clamps	RMT	13200
U2S25-12-K	U2S25 12	k)	Cable laying by clamping on Sub-station structures like CPL etc., including earthing cable from termination to Link box including cost of aluminum clamps.	RMT	2480
U2S25-13-L	U2S25 13	l)	Cable laying while clamping bare on the walls, ceiling and structures including cost of clamps in complete shape	RMT	4950
U2S25-19-2.4	U2S25 19	<b>2.4</b>	Only excavation and back filling of soil without laying of cable	RMT	2480
U2S25-20-2.5	U2S25 20	<b>2.5</b>	Excavation and backfilling of suitable thermal backfill for maintainings soil thermal resistance value of 120 degrees	Cum	6600
U2S25-21-2.6	U2S25 21	<b>2.6</b>	Laying of cable excluding excavation and backfilling	RMT	660
		<b>2.7</b>	<b>Laying of cable by Horizontal Directional Drilling (HDD) incl. cost of 250 mm HDPE Pipe</b>		
U2S25-22-A	U2S25 22	a)	Soil/Morrem, soft rock (upto 5000 PSI) per pipe	RMT	16170
U2S25-23-B	U2S25 23	b)	Soil/Hard rock (5000 PSI upto 9000 PSI) per pipe	RMT	26410
		<b>3</b>	<b>LAYING OF CO-AXIAL CABLE/Single Core Bonding Cable per each cable</b>		
U2S25-24-A	U2S25 24	a)	400 Sq.mm. co-axial copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	23
U2S25-25-B	U2S25 25	b)	400 Sq.mm. single core copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	23
U2S25-27-D	U2S25 27	d)	400 Sq.mm. single core copper cable conductor PVC insulated 6.6kV grade on pole mounted termination Tower including cost of cleats.	RMT	23
		<b>4</b>	For pulling optical fiber cable the following items shall be done while excavation of trenches as per specifications		
U2S25-28-A	U2S25 28	a)	Supply of HDPE duct pipe of OD/ID 40/33 mm dia and associated material of standard make as per the specification of the contract/tender and laying jointing, bedding of above HDPE duct pipe in the already excavated XLPE cable trench including sealing the section ends as per the specification of the contract/tender (Per Pipe).	RM	As per the telecom rates
U2S25-29-B	U2S25 29	b)	Supply of RCC joint chambers (1200/760/50 mm) W/L/T with base and top plates as per the specification of the contract/tender and erection of RCC joint chambers for every 0.5 KM in HDPE duct enroot as per the specification of the contract/tender.	Each	As per the telecom rates

**Annexure-XV ::::: Laying of 220KV 2500 Sqmm UG Cable (Single Circuit)**

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
		<b>5 CABLE JOINTING</b>			
U2S25-30-A	U2S25 30	a)	Construction of cable Joint bay of size (13mX2m) of single phase which includes excavation of pit, providing Cement concrete base, walls,slabs (CC:1:2:4) including cost of Cement, steel etc., labour charges and all incidental items of work for finished item of work including design of pit providing joint bay identification mark. This includes fine sand filling, after completion of the jointing, as per the drawing.	Nos.	577590
U2S25-31-B	U2S25 31	b)	Jointing charges for cross bonding joints/normal joints excluding cost of joints including providing necessary T&P for jointing viz., weather proof tent / container, DG Set, Air Conditioner etc., complete wherever necessary for complete item of work. This includes loading, un-loading and transportation of all materials to work spot as per approved drawings of jointing	Nos.	206280
		<b>6 TERMINATION CHARGES</b>			
			Termination of cable excluding cost of out door type cable terminations and single phase link boxes without SVL complete and all incidental item of work finished item of work including providing necessary T&P viz., tarpaulin tent, DG set, air conditioner, scaffolding etc complete wherever necessary for complete item of work. <b>(Excluding the cost of the foundations and structures)</b>		
U2S25-32-A	U2S25 32	a)	220 KV Tower mounted type cable end terminations including erection on Tower in all respects per phase including scaffolding charges.	Each	346550
U2S25-33-B	U2S25 33	b)	220 KV Outdoor type cable end terminations with silicon materials complete in all respect.	Each	288790
U2S25-34-C	U2S25 34	c)	220 KV SF6 type cable end terminations complete in all respect.	Each	231030
U2S25-35-7A	U2S25 35	7a	Providing earthing of joint bays with copper flat of cross section (50 X 8 mm ) equivalent to the earthing cable and run all around the joint bay, providing earth electrodes of steel rods coated with copper (25 mm dia.) as per standards and treated with suitable earth enhancing compound to get an effective diameter and welding the copper flat to the electrodes by exothermic welding. The earthing scheme drawing shall be got approved with all earth resistance calculations considering the fault currents earth leads from link box to earth pit and connecting lug fixtures, fasteners shall be supplied. Length of the earth lead will be as per site condition/convenience.	Each	55700

**Annexure-XV ::::: Laying of 220KV 2500 Sqmm UG Cable (Single Circuit)**

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)		(3)	(4)	
U2S25-36-7B	U2S25 36	7b	Excavation of earth pit, putting cast iron pipe with flange on one end (as per ISS7181/86) of nominal dia 125mm and 2.75 meters long in side the pit including supply and fixing RCC collars 0.75 meter dia (OD), 50mm thick and 0.60meters long in side the pit, backfill the pit in the 25mm size granules of BH coke for full depth of the pit with alternate layers of BH coke and salt of 300mm thick around the earth pipe of 150mm on all the sides of the pipe including cost and conveyance of BH coke, salt, clamps, C.I.Pipes and RCC collars, labour charges for all operational and incidental items of work etc., complete.	Each	16120
U2S25-37-8A	U2S25 37	8a	Provision for RCC (1:2:4) for any unforeseen requirement whenever necessary at culverts, drains, nala, bridges.(rate to be taken as per CSSR)	Cum	Rate to be taken as per CSSR
U2S25-38-8B	U2S25 38	8b	Supplying, fitting and placing of HYSD, TMT bar reinforcement (TISCO/SAIL/VSP) in foundations, columns , beams slabs wherever necessitated.for the work as per the drawings furnished by the field engineer including cutting , bending, cranking, tying grill in position including cost of binding wire scaffolding etc.(rate to be taken as per CSSR)	MT	Rate to be taken as per CSSR
		9	<b>CONNECTION OF LINK BOXES</b>		
U2S25-39-A	U2S25 39	a)	Erection of single phase link boxes, providing suitable supporting arrangements, sheath bonding cable, connecting earth leads, with all lugs, fixtures, clamps, bolts and nuts etc., complete including earthing as per the directions of site engineer including connecting to the earthing cable from link box to earthpit	Each	16970
U2S25-40-B	U2S25 40	b)	Erection of 3 phase link boxes making connections with earth leads with lugs, fixtures, fasteners sheath bonding cable etc., including excavation, providing RCC concrete wall box of 150mm thick for inserting link boxes / providing of structure and refilling, and refilling, etc. including earthing as per the directions of site engineer including connecting to the earthing cable from link box to earthpit.	Each	61080
U2S25-41-10	U2S25 41	10	Erection of Lightning Arrestors on special type Tower including cost of hardware, jumpering with suitable conductor between line conductor and the pole mounted terminations including labour charges and insurance for all incidental and operational items of work.	Each	8130
U2S25-43-10	U2S25 43	11	Site testing and commissioning (including phase sequence test, megger test, continuity test, etc.)	KM	56560

**Annexure - XVI :::: Laying of 220KV 2500 Sqmm UG Cable (Double Circuit)**

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
	(1)	(2)	(3)	(4)	
		1	<b>CABLE ROUTE Survey</b>		
U2D25-1-A	U2D25 1	a)	Conducting reconnoitering and preliminary Survey along shortest route with best proposed route and furnishing report for selecting the best proposal for approval including cost and conveyance of all materials, hire charges of equipment, tools and plant, preparation of drawings and reports, labour charges, complete for finished item of work as per the directions of Engineer-in-charge at site as per SSR 2013-14. (a) With <b>DGPS</b> equipment (As per clause 4.9 of Survey) (b) With total station equipment..(per each route limited to 3 Cable Routes)	RKM	5840
U2D25-2-B	U2D25 2	b)	Conducting Detailed Survey of cable route including evaluation of thermal resistivity of the soil along the cable route, excavation of Trial pits as per field requirements, preparation of cable route profile, drawings for cable laying, final route alignment, marking lines & grades and preparing bill of materials/ lengths of the cable for the project incl. preparation of PTCC questionnaire and marking of proposed cable route in Topo sheet, Tower/SS sketch, Single line diagram etc.(30 copies/sets). (NOTE: For Survey of small lengths of UG Cable, if the length of UG cable is less than 0.5KM, then 0.5KM is considered for Survey of small length of UG cable in the preparation of estimate)along with as built drawings	Mtrs.	848
		2	<b>LAYING OF CABLE</b>		
		2.1	Laying of 220 kV <b>2500 Sq. mm.</b> XLPE U/G copper cable (6 Nos. for double Circuit) including road cutting, pulling and laying of cable including excavation in the following soils and back filling, sand filling dewatering, including cost of RCC protective tiles, cost of route markers, warning tapes etc, Across and along CC, BT & earth road, Nala crossings, bridge crossings, providing HDPE (thickness 10 mm)pipes, Bell mouths, end caps after laying cable, labour charges and all incidental items of work for finished item of work. This includes loading, unloading and transportation of all materials to work spot. (flat formation) <b>(With Trench width of 2.2 Meters) (as per the approved drawing) (Including providing RFID markers @ 25 Meters interval and as per the field requirement)</b>		
U2D25-3-A	U2D25 3	a)	Hard gravel soils, BC soils, red earth, stone and earth mixed with fair size boulders etc	RMT	19520
U2D25-4-B	U2D25 4	b)	Hard Rock with soils	RMT	30090
U2D25-5-C	U2D25 5	c)	CC or BT road surface etc.	RMT	21900
U2D25-7-E	U2D25 7	e)	CC or BT road with Hard rock	RMT	41810
U2D25-8-F	U2D25 8	f)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	27440
U2D25-8-A-G	U2D25 8a	g)	Across the road In HDPE pipes (thickness 10mm) to cross CC or BT road with hard rock and other service lines including cost of concrete cost of HDPE pipes of 250 mm dia etc. complete	RMT	56970
U2D25-9-H	U2D25 9	h)	Cable laying in built up trenches, cable trays and supports etc. complete including cost of trays and support etc, complete.	RMT	27440
U2D25-10-I	U2D25 10	i)	Cable laying across the culverts and over bridges etc., complete in HDPE pipes(10mm thickness) of 250 mm dia in complete	RMT	27440

**Annexure - XVI :::: Laying of 220KV 2500 Sqmm UG Cable (Double Circuit)**

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)		(3)	(4)	
U2D25-11-J	U2D25 11	j)	Cable laying by clamping on special type Tower including earthing cable from termination to Link box including cost of aluminum clamps	RMT	29700
U2D25-12-K	U2D25 12	k)	Cable laying by clamping on Sub-station structures like CPL etc., including earthing cable from termination to Link box including cost of aluminum clamps.	RMT	6600
U2D25-13-L	U2D25 13	l)	Cable laying while clamping bare on the walls, ceiling and structures including cost of clamps in complete shape	RMT	13200
U2D25-19-2.4	U2D25 19	<b>2.4</b>	Only excavation and back filling of soil without laying of cable	RMT	4950
U2D25-20-2.5	U2D25 20	<b>2.5</b>	Excavation and backfilling of suitable thermal backfill for maintainings soil thermal resistance value of 120 degrees	Cum.	13200
U2D25-21-2.6	U2D25 21	<b>2.6</b>	Laying of cable excluding excavation and backfilling	RMT	1650
		<b>2.7</b>	<b>Laying of cable by Horizontal Directional Drilling (HDD) incl. cost of 250 mm HDPE Pipe</b>		
U2D25-22-A	U2D25 22	a)	Soil/Morrem, soft rock (upto 5000 PSI) per pipe	RMT	16170
U2D25-23-B	U2D25 23	b)	Soil/Hard rock (5000 PSI upto 9000 PSI) per pipe	RMT	26410
		<b>3</b>	<b>LAYING OF CO-AXIAL CABLE/SINGLE CORE BONDING Cable per each cable</b>		
U2D25-24-A	U2D25 24	a)	400sq.mm. co-axial copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	23
U2D25-25-B	U2D25 25	b)	400sq.mm.single core copper cable conductor PVC insulated 6.6kV grade across the cable.	RMT	23
U2D25-27-D	U2D25 27	d)	400sq.mm.single core copper cable conductor PVC insulated 6.6kV grade on pole mounted termination Tower including cost of cleats.	RMT	23
		<b>4</b>	For pulling optical fiber cable the following items shall be done while excavation of trenches as per specifications		
U2D25-28-A	U2D25 28	a)	Supply of HDPE duct pipe of OD/ID 40/33 mm dia and associated material of standard make as per the specification of the contract/tender and laying jointing, bedding of above HDPE duct pipe in the already excavated XLPE cable trench including sealing the section ends as per the specification of the contract/tender (Per Pipe).	RMT	As per Telecom rates
U2D25-29-B	U2D25 29	b)	Supply of RCC joint chambers (1200/760/50 mm) W/L/T with base and top plates as per the specification of the contract/tender and erection of RCC joint chambers for every 0.5KM in HDPE duct enroot as per the specification of the contract/tender.	Each	As per Telecom rates

**Annexure - XVI :::: Laying of 220KV 2500 Sqmm UG Cable (Double Circuit)**

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
		5	<b>CABLE JOINTING</b>		
U2D25-30-A	U2D25 30	a)	Construction of cable Joint bay of size (13mX4m) of single phase which includes excavation of pit, providing Cement concrete base, walls,slabs (CC:1:2:4) including cost of Cement, steel etc., labour charges and all incidental items of work for finished item of work including design of pit providing joint bay identification mark. This includes fine sand filling, after completion of the jointing, as per the drawing.	Nos.	841630
U2D25-31-B	U2D25 31	b)	Jointing charges for cross bonding joints/normal joints excluding cost of joints including providing necessary T&P for jointing viz.weather proof tent / container, DG Set, Air Conditioner etc., complete wherever necessary for complete item of work. This includes loading, un-loading and transportation of all materials to work spot as per approved drawings of jointing	Nos.	198350

**Annexure - XVI :::: Laying of 220KV 2500 Sqmm UG Cable (Double Circuit)**

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)	(3)	(4)		
		6	<b>TERMINATION CHARGES</b>		
			Termination of cable excluding cost of out door type cable terminations and single phase link boxes without SVL complete and all incidental item of work finished item of work including providing necessary T&P viz., tarpaulin tent, DG set, air conditioner, scaffolding etc complete wherever necessary for complete item of work. <b>(Excluding the cost of the foundations and structures)</b>		
U2D25-32-A	U2D25 32	a)	220 kV Tower mounted type cable end terminations including erection on Tower in all respects per phase including scaffolding charges.	Each	333220
U2D25-33-B	U2D25 33	b)	220 kV Outdoor type cable end terminations with silicon materials complete in all respect.	Each	277690
U2D25-34-C	U2D25 34	c)	220 kV SF6 type cable end terminations complete in all respect.	Each	222150
U2D25-35-7A	U2D25 35	7a	Providing earthing of joint bays with copper flat of cross section (50 X 8mm) equivalent to the earthing cable and run all around the joint bay, providing earth electrodes of steel rods coated with copper (25 mm dia.) as per standards and treated with suitable earth enhancing compound to get an effective diameter and welding the copper flat to the electrodes by exothermic welding. The earthing scheme drawing shall be got approved with all earth resistance calculations considering the fault currents earth leads from link box to earth pit and connecting lug fixtures, fasteners shall be supplied. Length of the earth lead will be as per approved drawing( site condition/ convenience).	Each	68550
U2D25-36-7B	U2D25 36	7b	Excavation of earth pit, putting cast iron pipe with flange on one end (as per ISS7181/86) of nominal dia 125mm and 2.75 meters long in side the pit including supply and fixing RCC collars 0.75 meter dia (OD), 50mm thick and 0.60meters long in side the pit, backfill the pit in the 25mm size granules of BH coke for full depth of the pit with alternate layers of BH coke and salt of 300mm thick around the earth pipe of 150mm on all the sides of the pipe including cost and conveyance of BH coke, salt, clamps, C.I.Pipes and RCC collars, labour charges for all operational and incidental items of work etc., complete.	Nos.	16120
U2D25-37-8A	U2D25 37	8a	Provision for RCC (1:2:4) for any unforeseen requirement whenever necessary at culverts, drains, nadas, bridges.(rate to be taken as per CSSR)	Cum	Rate to be taken as per CSSR
U2D25-38-8B	U2D25 38	8b	Supplying, fitting and placing of HYSD, TMT bar reinforcement (TISCO/SAIL/VSP) in foundations, columns , beams slabs wherever necessitated.for the work as per the drawings furnished by the field engineer including cutting , bending, cranking, tying grill in position including cost of binding wire scaffolding etc.(rate to be taken as per CSSR)	MT	Rate to be taken as per CSSR

**Annexure - XVI :::: Laying of 220KV 2500 Sqmm UG Cable (Double Circuit)**

SAP Code	Item No.	Sl. No.	Description of Material / Work	UNIT	SSR for 2025-26 (in Rs.)
(1)	(2)		(3)	(4)	
	9		<b>CONNECTION OF LINK BOXES</b>		
U2D25-39-A	U2D25 39	a)	Erection of single phase link boxes, providing suitable supporting arrangements, sheath bonding cable, connecting earth leads, with all lugs, fixtures, clamps, bolts and nuts etc., complete including earthing as per the directions of site engineer including connecting to the earthing cable from link box to earthpit	Each	16970
U2D25-40-B	U2D25 40	b)	Erection of 3 phase link boxes making connections with earth leads with lugs, fixtures, fasteners sheath bonding cable etc., including excavation, providing RCC concrete wall box of 150mm thick for inserting link boxes / providing of structure and refilling, and refilling, etc. including earthing as per the directions of site engineer including connecting to the earthing cable from link box to earthpit.	Each	61080
U2D25-41-10	U2D25 41	10	Erection of Lightning Arrestors on special type Tower including cost of hardware, jumpering with suitable conductor between line conductor and the pole mounted terminations including labour charges and insurance for all incidental and operational items of work.	Nos.	8130
U2D25-43-10	U2D25 43	10	Site testing and commissioning (including phase sequence test, megger test, continuity test, etc.)	KM	84840

**ANNEXURE – (XVII)**

**ERCTION OF 400 & 220kV GIS MODULES**

<b>SAP Code</b>	<b>SI.No</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Standard Schedule Rates for the year 2025-26 (in Rs.)</b>				
1	2	3	4						
			PRICES FOR ERECTION, TESTING AND COMMISSIONING OF SWITCHGEAR						
			Receipt from site stores, Transport, handling, Erection, Testing including HV Testing and Commissioning of all Equipment with complete accessories, as specified						
		A)	400kV ONE AND HALF CIRCUIT BREAKER SCHEME INCLUDING LCC						
GIS0000019	C4G1	1	420kV, 3150A, 63kA SF6 GIS Transformer/ Reactor Feeder bay Module and all accessories as per Technical Specification	Set	8,16,610.00				
GIS0000020	C4G2	2	420kV, 3150A, 63kA SF6 GIS Line Feeder bay Module with Support structures and all accessories as per Technical Specification	Set	7,57,790.00				
GIS0000042	C4G 3	3	420kV, 3150A, 63kA SF6 GIS Tie bay Module with Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, CSD, support structures and all accessories as per Technical Specification	Set	7,22,470.00				
GIS0000021	C4G 4	4	420kV, 4000A, 63kA, 3 Single Phase (Isolated), SF6 GIS Bus bars for two diameters (Diameter = ICT+ TIE+ Line bay) each enclosed in three individual bus enclosures running along the length of the switchgear to interconnect each of circuit breaker bay module complete with gas density monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including Bus VT along with associated disconnector and grounding switch, local control cubicle with BCU, complete Busbar as per Technical Specification	Set	3,60,000.00				
		5	420kV, 4000A, 63kA 3 Single Phase (isolated) GIS metal enclosed Bus bars extension module for Full diameter (ICT+ TIE+ Line bay) each enclosed in three individual bus enclosures running along the length of the switchgear to interconnect each of circuit breaker bay module complete with gas density monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, excluding (Bus VT, associated disconnector and grounding switch) as per Technical Specification	Set					
		A)	Bus Bar extension Module		47,260.00				
		B)	Adapter / Interface Module (For Extension of GIS of other GIS make)		1,92,740.00				
GIS0000023	C4G 6	6	420kV, 4000A, 63kA, Single phase, SF6 Gas Insulated Bus Duct (GIB), Gas density monitor (Including online gas monitoring system) UHF sensors for online OPDMS system, including associated Support structures and Accessories as per Technical Specification	mtr	1,940.00				
GIS0000044	C4G 7	7	420kV, 3150A, 63kA, Single phase, SF6/ Air Bushing for connecting GIS to AIS as per Technical Specification	No	15,000.00				

**ANNEXURE – (XVII)**

**ERECTOR OF 400 & 220kV GIS MODULES**

<b>SAP Code</b>	<b>SI.No</b>	<b>Item No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Standard Schedule Rates for the year 2025-26 (in Rs.)</b>
1	2	3	4		
		B)	220kV, 50 kA GIS Including LCC ( Double bus arrangement)		
GIS0000002	C4G 8	8	220kV, 2000A, 50kA SF6 GIS Transformer bay Module with associated Support structures and all accessories as per Technical Specification	Set	5,14,860.00
GIS0000001	C4G9	9	220kV, 2000A, 50kA SF6 GIS Line feeder bay Module with associated Support structures and all accessories as per Technical Specification	Set	5,14,860.00
GIS0000004	C4G 10	10	220kV, 3000A, 50kA, SF6 GIS Bus Coupler Bay Module with associated Support structures and all accessories as per Technical Specification	Set	4,31,420.00
GIS0000045	C4G 11	11	220kV, 3000A, 50kA for 1 sec. 3 phase (Single phase isolated / 3 phase encapsulated), SF6 gas insulated , metal enclosed Bus bar for Five number 220KV bays running along the length of the switchgear to interconnect each of circuit breaker bay module complete with gas density monitors (Including online gas monitoring system) UHF sensors for online OPDMS system, including Bus VT along with associated disconnector and grounding switch complete as per Technical Specification	Set	3,00,000.00
	C4G 12	12	220kV, 3000A, 50kA for 1 sec. 3 phase (Single phase isolated / 3 phase encapsulated), SF6 gas insulated , metal enclosed Bus bar extension module for One number 220kV bay running along the length of the switchgear to interconnect each of circuit breaker bay module complete with gas density monitors (Including online gas monitoring system) UHF sensors for online OPDMS system, complete as per Technical Specification	Set	
		A)	Bus Bar extension Module		9,420.00
		B)	Adapter / Interface Module (For Extension of GIS of other GIS make)		1,50,580.00
GIS0000047	C4G 13	13	220kV, 3000A, 50kA, Single phase, SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including associated Support structures & Accessories as per Technical Specification	mtr	1,500.00
GIS0000048	C4G 14	14	220kV, 2000A, 50kA, Single phase, SF6/ Air Bushing for connecting GIS to AIS as per Technical Specification	No	8,080.00

**Annexure - XVIII :: GIS Module Erection rates**

<b>Sl. No.</b>	<b>SAP Code</b>	<b>Description</b>	<b>UOM</b>	<b>SSR for 2025-26 (in Rs.)</b>
		Receipt from site stores ,Transport, handling, Erection, Testing including HV Testing and commissioning of all Equipment and relavent switch gear with complete accessories, as specified.		
I		<b>132 KV GIS Equipment</b>		
a	GIS0000005	132KV GIS Feeder Bay module, 1250A, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification. (GIS including LCC)	sets	232580
b	GIS0000006	132 KV GIS Transformer Bay Module, 800A, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification. (GIS including LCC)	sets	209220
c	GIS0000007	132 KV GIS Bus VT Module, 132KV/110V. 3 Phase, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification. (GIS including LCC)	sets	78100
d	GIS0000008	132 KV GIS Bus Sectionaliser Module with complete set (Breaker and CTs), 2500/3150A, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), Gas Density Monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification. (GIS including LCC)	sets	193120
e	GIS0000049	132kV, 2500A, 40kA for 1 sec Three phase encapsulated. SF6 Gas Insulated Bus Duct (GIB), gas density monitors (Including online gas monitoring system), UHF sensors for online OPDMS system, including bus duct support structures and associated accessories as per Technical Specification.	Mtr.	2770
f	GIS0000050	132kV, 1600A, 40kA for 1 sec Single phase SF6 /Air bushings for connecting GIS to AIS as per Technical Specification.	sets	6920
II		<b>33 KV GIS Equipment</b>		
a	GIS0000009	33 KV GIS Feeder Bay Module	sets	102090
b	GIS0000010	33 KV GIS Transformer Bays Module	sets	98810
c	GIS0000011	33 KV GIS Bus VT Module, 33KV/110V.	sets	53870
d	GIS0000012	33 KV GIS Bus Sectionaliser Module with complete set (Breaker and CTs)	sets	87040
e	GIS0000032	GIS module for Station transformer	sets	80900