SOUTHERN POWER DISTRIBUTION COMPANY OF A.P. LIMITED
TIRUPATI

Memo.No.ED/P&MM. & IPC/SPDCL/TPT/CIVIL/F.210/D.No.2633 /13 dt. 23-11-2013

Sub: SPDCL – Consolidated SPDCL SSR for the year 2013-14 – Issued – Reg.

Ref :- Note orders dated 22-11-2013 of Chairman & Managing Director APSPDCL

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With reference to the note orders dated 22-11-2013 ,the rates of SSR 2012-13 are revised and new SSR for the year 2013-14 is finalized. This SSR is effective from the date of issue of SSR 2013-14.

Finalized copy of SSR is being sent through E-mail to all Chief Engineers/ Superintending Engineers/Divisional Engineers/Executive Engineers/Assistant Divisional Engineers/ Assistant Engineers/ Additional Assistant Engineers for implementation in the SPDCL from now onwards.

Encl: One copy of SPDCL
SSR 2013-14.
// FBO //

Sd/- T. VANAJA
EXECUTIVE DIRECTOR
P&MM & IPC
APSPDCL :: TIRUPATI

EXECUTIVE ENGINEER, CIVIL

To
All Superintending Engineers/ Operation/SPDCL
The Executive Engineer, Civil, Corporate Office, APSPDCL, Tirupati.
All Divisional Engineers/ Operation/ SPDCL
All Divisional Engineers/ Transformers/ SPDCL
All Divisional Engineer/ M&P/ SPDCL
All Divisional Engineers/ Construction/SPDCL
All Asst Div. Engineers/ Operation/ SPDCL
All Assistant Engineers & Addl. Asst. Engineers/ Operation/ SPDCL

Copy to
The Chief Engineer/ Zone/ SPDCL/ Tirupati & Vijayawada.
The Chief General Manager/ Projects/ SPDCL/ Tirupati.
The Chief General Manager/ Opn./ SPDCL/ Tirupati.
The Chief General Manager/Finance/SPDCL/ Tirupati.
The Superintending Engineer / DPE/ SPDDL/Tirupati
The Superintending Engineer / Assessments/ SPDCL/Tirupati.
The Divisional Engineer/ DPE/ SPDCL
The Divisional Engineer/ Assessments/ SPDCL
Copy submitted to Peshi of Director/ Operation/ SPDCL/ Tirupati.
Copy submitted to Peshi of Director/Finance/ SPDCL/ Tirupati.
Copy submitted to Peshi of Director/ HRD/ SPDCL/ Tirupati.
Copy submitted to Peshi of Director/ Projects/ SPDCL/ Tirupati.
Copy submitted to Peshi of Chairman & Managing Director/ SPDCL/ Tirupati.

SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED

COMMON STANDARD SCHEDULE OF RATES FOR THE YEAR 2013 – 2014

INDEX

I. RATES OF LABOUR

Sl No.	Type of Labour	Unit	Rate
1)	**First Class**- Mason/ Brick Layer/Carpenter/ Painter/Plumber/Welder/Fitter/Electrician/Mechanic	Day	400.00
2)	**Second Class** - Mason/ Brick Layer/Carpenter/ Painter/Plumber/Welder/Fitter/Electrician/Mechanic	Day	320.00
3)	**Un-Skilled Work Men**/Women	Day	280.00
	AREA ALLOWANCES :-		
	A. CORPORATIONS & MUNICIPALITIES:- a) i) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits except Vijayawada Municipal Corporations (*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 basic rates on labour component of works for Vijayawada Municipal Corporations (*Up to belt of 12 Kms from Municipal Corporation limits*). b) Allow 20% extra over basic rates on labour component of works in all District Head Quarters and the remaining Municipal limits (*up to a belt of 12 Kms from Municipal limits*). c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed. d) For works at Horsely Hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.		
	B. Jail Compounds: 20 % extra		
	C. .INDUSTRIAL AREA:- Allow 20% extra over rates on labour component of works in the following Industrial Areas. *(within 10 Kms belt of Industrial area)* KRISHNA DIST.- Ibrahimpatnam Distribution, Vuyyuru Distribution, Jaggaiahpeta Distribution. GUNTUR DIST.- Macherla Distribution, Gurajala, Distribution, Dachepalli Distribution, Piduguralla Distribution ONGOLE DIST.- Cheemakurthy Distribution, Maddipadu Distirbution NELLORE DIST.- Tada Distribution, Muthhukur Distribution, Chillakur Distribution, Menakur Distribution, Kodavalur Distribution		

	CHITTOOR DIST.- Renigunta. Distribution, Gurajala Mandyam distribution, Kuppam Distribution, Satyavedu Distribution, KADAPA DIST.- Yerraguntla Distribution, Mangampeta Distribution, Jammalamadugu Distribution		
	NOTE:- If more than one area allowance(Such as those) for (1) Corporations (2) Municipalities and District Head Quarters (3) Industrial Area are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.		

II. IMPORTANT NOTE

(1) Specific approval is to be taken from the corporate office in respect of blasting works.

(2) Extra percentage is not allowed for LC Period works/ shut down period works.

(3) 9.1m/280 Kg Poles shall be utilised in Towns and 33 KV lines only.

(4) All Fabrication works should be done by using departmental materials within stores Yard/premises only. Department materials shall not be issued to the out side the stores for fabrication purpose. Divisional/Tech shall personally monitor the issue of fabrication of materials.

(5) All the estimates shall be prepared based on the rates of SSR only. For the items not covered in the SSR, approval is to be taken from the concerned SE, Operation.

(6) Pole pit concreting is normally not allowed for PSCC/Spun poles. If concreting is to be done in certain cases, then specific approval is to be taken from the concerned SE, Operation.

(7) Basic/Bed concreting is necessary for spun poles, if pole pit concreting is allowed.

(8) Red oxide primer painting is not allowed in respect of old structures/equipment in 33/11 KV SS. Only one coat of aluminium/synthetic/ black bitumen paint is allowed.

(9) *No extra percentage/rate towards area allowance in respect of (a) loading & unloading charges (b) Fabrication of line materials (c) Dismantling and re-erection of Single Phase/Three Phase services is allowed*

III. RATES OF WORKS

Sl No.	Description	Per	Rate
	EXCAVATION OF PITS		
1)	Excavation of pits **in all soils** i.e., mixture of gravel and soft disintegrated rock like shales ordinary gravel, stoney earth and earth mixed with fair sized boulders.		
a)	2' x 2'6" x 5' or 0.6m x 0.75m x 1.5m (for 8m or 9.1m PSCC poles)	Pit	197.00
b)	2' x 2'6" x 5'6" or 0.6m x 0.75m x 1.65m (for 10m Joists/ rail poles)	Pit	209.00
c)	3' x 3' x 6' or 0.9m x 0.9m x 1.8m. (for 11m spun/Joist poles)	Pit	231.00
d)	3' x3' x 7' or 0.9m x 0.9m x 2.1m. (for 12.5 spun poles)	Pit	266.00
2)	Excavation of pits in excavation **in soft disintegrated rock removable by pick axes**		
a)	2' x 2'6" x 5' or 0.6m x 0.75m x 1.5m (for 8m or 9.1m PSCC poles)	Pit	220.00
b)	2' x 2'6" x 5'6" or 0.6m x 0.75m x 1.65m (for 10m Joists/ rail poles)	Pit	231.00
c)	3' x 3' x 6' or 0.9m x 0.9m x 1.8m. (for 11m spun/Joist poles)	Pit	255.00
d)	3' x3' x 7' or 0.9m x 0.9m x 2.1m. (for 12.5 spun poles)	Pit	289.00
3)	Excavation of pits **in hard rock by blasting** **Note:-** 1) Specific approval is to be taken from the corporate office in respect of blasting works. 2) Quantity of excavation actually done as per specification and plans only is to be admitted, irrespective of total excavation of the pit.:-		
a)	2' x 2'6" x 5' or 0.6m x 0.75m x 1.5m (for 8m or 9.1m PSCC poles)	Pit	694.00
b)	2' x 2'6" x 5'6" or 0.6m x 0.75m x 1.65m (for 10m Joists/ rail poles)	Pit	763.00
c)	3' x 3' x 6' or 0.9m x 0.9m x 1.8m. (for 11m spun/Joist poles)	Pit	1498.00
d)	3' x3' x 7' or 0.9m x 0.9m x 2.1m. (for 12.5 spun poles)	Pit	1748.00
e)	Rate per cft	cft	28.00
	ERECTION OF LINES		
4)	**PSCC/SPUN/RAIL POLES ERECTION** :-Erection of PSCC Poles in position aligning and setting to work as per specification including supply of labour for survey, pit- marking, T&P, transport of 1 No. PSCC Pole from road side to location including loading and unloading and back filling the earth ramming for consolidation but excluding the cost of pit excavation.		

	PSCC Poles		
a)	8.0 m /140 Kg PSCC Poles (Weight of pole=355 Kg)	Each	752.00
b)	8.0 m /200 Kg PSCC Poles (Weight of pole=380 Kg)	Each	805.00
c)	8.0 m /300 Kg PSCC Poles (Weight of pole=505 Kg)		
d)	9.1 m / 280 Kg PSCC poles (Weight of pole=680 Kg)	Each	1440.00
e)	11.0 m / 365 Kg PSCC poles (Weight of pole=1127 Kg)	Each	2430.00
	Spun poles		
f)	9.5 m Spun Pole (Weight of pole=620 Kg)	Each	2130.00
g)	11.0 m Spun poles (Weight of pole=900 Kg)	Each	3091.00
h)	12.5 m Spun Poles (Weight of pole=1,200 Kg)	Each	4122.00
	Rail Poles		
i)	60 Lbs / 27.3kg-. Rail poles- Length of Rail pole – 27'(8.23m) (Weight of pole=225 Kg)	Each	477.00
j)	75 Lbs / 34.1kg. Rail poles- Length of Rail pole – 30'(9.14m) (Weight of pole=312 Kg)	Each	661.00
k)	90 Lbs / 40.9kg. Rail poles- Length of Rail pole – 30'(9.14m) (Weight of pole=374 Kg)	Each	792.00
l)	105 Lbs / 47.7kg. Rail poles- Length of Rail pole – 30'(9.14m) (Weight of pole=436 Kg)	Each	921.00
	RS Joist Poles		
m)	150x75 RS Joist Poles –Length of Joist – 9M (Weight of pole=140 Kg)	Each	295.00
n)	175x85 RS Joist Poles –Length of Joist – 9M (Weight of pole=215 Kg)	Each	455.00
o)	150x150 RS Joist Poles –Length of Joist – 9M (Weight of pole=333 Kg)	Each	703.00
5)	**STAY SET ERECTION**		
a)	**Stay erection (33 KV line or 11 KV line or LT Line) Data for each Stay set :-** Assembly and erection of Stay set made out of M.S. Rod 20 mm by burying Stay Rods with base plate in alignment with line / bisection, back billing with earth and ramming for Consolidation including fixing of guy in Stay wire of 7/12 clamps, turn buckles etc., on the Pole and binding on either side and as per specification and transporting materials and T&P from road side to work spot including loading and unloading, but excluding cost of pit excavation.	Set	223.00
6)	**ERECTION OF CROSS ARMS**		
a)	**Fixing of 1 No. 5' – 0" – Channel (100 X 50 mm) – V – X – Arms for 33 KV:-** Fixing of 1 No. 5' – 0" – Channel (100 X 50 mm) – V – X – Arms (for 33 KV line) to already erected 9.1 M PSCC with 1 No. Back Clamp made out of 75 X 6 mm M.S. Flat including transporting of materials and T&P from road side to location with loading and unloading	Each	92.00
b)	**Fixing of 33 KV Top fitting :-** Fixing of 1 No. 33 KV Top – fitting (MS Channel 100 X 50 mm) with 2 Clamps (MS flat 75 X 8 mm) to the already erected 9.1 M PSCC Pole including transporting of materials and T&P from road side to location with loading and unloading.	Each	43.00
c)	**Fixing of 11 KV 3' – 6" – V – X- Arm :-** Fixing of 1 No. 3' – 6" –	Each	55.00

	V – X – arm made out of M.S. Channel 75 X 100 mm to the already erected 8M PSCC Pole with 1 No. Back Clamp made out of 75 X 8 mm M.S. Flat as per specification and drawing aligning them properly and setting to work including transporting of materials and T&P from road side to location with loading and unloading		
d)	**Fixing of 11 KV Top – Fittings :-** Fixing of 1 No. 11 KV Top – fittings made out of 65 X 65 X 6 mm Angle to the already erected 8M PSCC Pole with 2 Nos. B.Cs made out of 50 X 6 mm MS Flat as per specification and aligning them properly and setting to work including transporting from road side to location loading and unloading	Each	33.00
e)	**Fixing of LT 3 phase/ Single phase 'X' Arm:-** Fixing of 1 No. LT 3 phase/single 'X' –arms with 1 No. back clamp to the erected all types of poles as per specification and drawing aligning them properly and setting to work including transporting of materials and T&P from road side to location with loading and unloading	Each	39.00
f)	**Fixing of L.T. Top fitting :-** Fixing of 1 No. L.T. Top fitting made out of M.S Angle 50X50X6 mm to the already erected 8M PSCC Pole with 2 Nos. back Clamps made out of M.S. Flat as per specifications and drawing aligning them properly and setting to work including transporting of material and T&P from road side to location with loading and unloading.	Each	26.00
g)	**Fixing of 11 KV/ LT side arm with strut**	Each	92.00
h)	**Fixing of 11 KV/ LT box type side arm with strut**	Each	119.00
7)	**FIXING OF INSULATORS**		
a)	**Fixing one No. 33 KV Insulator and Pin:-** Fixing of 33 KV Insulator as per the specification and drawing and aligning them properly to work, transportation of 33 KV insulators and pin from road side to location including loading and unloading	Each	35.00
b)	**Fixing of 33 KV Discs with MPS (i.e., 3 Nos. Discs and 1 set MPS).**	1 set	120.00
c)	**33 KV Polymer disc**	Each	60.00
d)	**Fixing 1 No. 11 KV Disc with MPS :-** Fixing of 11 KV metal part along with 11 KV Disc to Cross arm as per specification and drawing aligning them properly and setting to work, transporting of materials and T&P from road side to location including loading and unloading	Each	49.00
e)	**11 KV Polymer disc**	Each	26.00
f)	**Fixing of one 11 KV Pin insulator & Pin :-**	Each	22.00
g)	**Fixing of LT Pin Insulators & GI Pins, LT shackles with MPS and CI Knobs**	Each	22.00
8)	**Erection of Line D.P.S** :-Assembly, erection, aligning line, D.P. Structure and setting to work as per drawing general specifications including transport of materials and T&P from road side to location, loading and unloading, providing of watch and ward till the line pre – handed over but excluding the cost of pit excavation :-		
9)	**STRUT - ERECTION**		

10)	**<u>Paving , Stringing & Jumpering of Conductor :-</u>** Fixing of suitable rollers, bamboos, paving out Conductor on suitable supports, providing temporary stays, tensioning, sagging correctly, fixing at strain point, transporting to pin points, binding, rectification of poles, guys and jumpering as per specification and drawing for 3 Nos. of 34 Square mm AAA Conductor including transporting of materials and T&P from road side to location including loading and unloading and providing watch and ward till the lines are handed over(**Rate per Km/Per conductor)**		
a)	Dog conductor weighing 393Kg/Km	Per Km/C	**DELETED**
b)	100 sq.mm.AAA weighing 272.86 Kg/Km	Per Km/C	4833.00
c)	7/3.35 ACSR or 55 sqmm., AAA conductor weighing 149.2 Kg/Km	Per Km/C	2644.00
d)	7/2.59 ACSR or 34 sqmm., AAA conductor weighing 94 Kg/Km	Per Km/C	1664.00
e)	AB cable 1x16 + 25mm. weighing 120 Kg/Km	Per Km	2125.00
f)	AB cable 2x16 + 25mm weighing 189 Kg/Km	Per Km	3349.00
g)	AB cable 3x16+25mm weighing 258 Kg/Km	Per Km	4570.00
h)	185 sqmm 11 KV AB cable	Per Km	**DELETED**
11)	**<u>CONCRETING ITEMS :-</u>** Note:- 1) **Pole pit Concreting is normally not allowed** for PSCC/Spun poles. If concreting is to be done in certain cases, then specific approval is to be taken from the concerned SE, Operation. 2) Basic /Bed concreting is necessary for spun poles, if pole pit concreting is allowed.	**DELETED. To be worked out as per Govt. SSR by the respective circle office ADEs/CIVIL**	
a)	**<u>Concreting of pole pit</u>** Concreting of pole pit of size =2'x2'6"x5' (0.6m x 0.75m 1.5 m.) with C.C.(1:4:8) using 40 mm. HBG metal including cost and Transport of all materials, labour charges, Transport of T & P and labour etc..		
i)	Labour charges in Rural areas		
ii)	Material(40mm HBG Metal + sand) up to 5Km lead		
iii)	Cement		
iv)	Total (Labour + Material + Cement)		
b)	**<u>Concreting of stay pit</u>** Concreting of stay pit of size 1' x 1'-6" x 4' (0.3mx0.45x1.2m) with C.C. (1:4:8) using 40 mm., HBG metal including cost and Transport of all materials, labour charges all leads & lifts etc.,		
i)	Labour charges in Rural areas		
ii)	Material(40mm HBG Metal + sand) up to 5Km lead		
iii)	Cement		
iv)	Total (Labour + Material + Cement)		

c)	**<u>Construction of 1No. VCB plinth of size 5'6" x 5'x 3'6"</u>** Excavation of pit of size 5'6"x5'x3', filling with sand for 6" depth, laying bed concrete with CC(1:4:8) using 40mm HBG metal for 4" depth, Construction of VCB plinth of size 5'6" x 5'x 3'6" (1.65m x 1.5m x 1.05m) with CC (1:3:6) mix using 40 mm HBG metal and providing plastering in CM (1:5) 12mm thick for top and sides above G.L. portion and white washing two coats including cost and Transport of all materials and labour charges for all operations with an average lead of 5KM and lifts etc., complete as directed by the Engineer in charge		
i)	Labour charges in Rural areas		
ii)	Material (40mm HBG Metal + sand +Janatha cem + Centering material hire charges) up to 5Km lead		
iii)	Cement		
iv)	Total (Labour + Material + Cement)		
d)	**<u>Construction of 1No. Distribution transformer plinth of size 4'x4'x5'6" with brick masonry walls</u>:-** Excavation of pit of size 4'x4'x2', filling with sand for 1' depth, laying bed concrete with CC(1:4:8) using 40mm HBG metal for 4" depth, Construction of distribution transformer plinth with 9" thick 5'10" height brick masonry wall in CM (1:6) all-round, filling the hollow portion with sand, laying of 4" thick PCC (1:3:6) using 20 mm HBG metal on top and plastering all-round the outer side of wall with CM (1:5) 12mm thick and white washing two coats, including cost and Transport of all materials and labour charges for all operation with an average lead of 5 KM and lifts etc., complete as directed by the Engineer in charge.		
i)	Labour charges in Rural areas		
ii)	Material (Bricks+ 40mm and 20mm HBG Metal + sand +Janatha cem cem + Centering material hire charges) up to 5Km lead		
iii)	Cement		
iv)	Total (Labour + Material + Cement)		
12)	**<u>Construction of pillar mounted. Distribution transformer plinth using RCC:-</u>** Excavation of pit of size 5'x5'x5', filling with sand for 4"(10 cm) depth, laying bed concrete with CC(1:4:8) using 40mm HBG metal for 4" depth, Construction of distribution transformer plinth with footing size (5'x5'x4" and 3'x3'x1.5'), column size 9"x9"x8'8", beam size 9"x9"x9'3", slab size 5'x5'x4", providing reif steel 12mm rod (76 Kgs) as per the directions of ADE/Civil, re-filling the hollow portion with excavated earth, and slabs, column and beam with CM (1:5) 20mm thick, including cost and Transport of all materials and labour charges for all operation with an average lead of 5 KM and lifts etc., complete as directed by the Engineer in charge.	**DELETED. To be worked out as per Govt. SSR by the respective circle office ADEs/CIVIL**	
i)	Labour charges in Rural areas		
ii)	Material (40mm and 20mm HBG Metal + sand + Centering material hire charges) up to 5Km lead		
iii)	Cement		
iv)	Steel		

v)	Total (Labour + Material + Cement)		
13)	**Construction of 1No. Distribution transformer plinth of size 4' dia and 6' height using RCC rings:-** Excavation of pit of size 4' dia 1'6" depth , laying one 40mm thick RCC cover on bottom/ground, laying seven RCC rings (dia 4' and 1'height each) over RCC cover, filling the hollow portion with sand, providing 4" thick RCC cover on top and pointing all the joints with CM(1:5) including cost of all materials and labour charges.	**DELETED. To be worked out as per Govt. SSR by the respective circle office ADEs/CIVIL**	
i)	Labour charges		
ii)	Material (Sand+ RCC rings+ RCC covers)		
iii)	Cement		
iv)	Total (Labour + Material)		
14)	**Erection of 33/11 KV VCB:** Erection & Setting of 33/11 KV VCB with control panels on plinth carefully without causing any damages to bushings including transport, loading and unloading charges of VCB, Control cables, CTs and T&P etc labour charges complete including panel board wiring, testing and commissioning charges	Each	13418.00
15)	**Erection of 33 KV AB Switch:** Erection of 33 KV AB Switch on the booms including T&P and labour charges complete as per Dept standards	Set	1457.00
16)	**a) Erection of 11 KV 400 Amps AB Switch:** Erection of 11 KV 400 Amps AB Switch on the booms including T&P and labour charges complete as per Dept standards	Set	1092.00
	b) Erection of 11 KV AB Switch & HG Fuse set: Erection of AB Switch & HG Fuse set including transport from section office to work site, T&P labour charges complete as per department standards	Set	1373.00
17)	**Wiring of 3 Phase Distribution Transformer (100/63 KVA):** Wiring of 3 phase Distribution Transformer (100/63 KVA) with 95 Sqmm PVC Cable/conductor from transformer LV bushing to LT HG Fuse set and HG Fuse set to line with bear conductor supported on insulator fixed to fabricated LV frame		
a)	Single Feeder with PVC cable	Each	1296.00
b)	Double Feeder with PVC cable	Each	2593.00
c)	Single Feeder with open wiring	Each	1296.00
d)	Double Feeder with open wiring	Each	2593.00
18)	**Erection of pole mounting structure for erection of Single Phase / Three Phase Trasformers**	Each	231.00
19)	**Transformers Erection:** Erection of Distribution Transformer on the plinth/pole carefully without causing and damaged to bushing including labour and transport complete		
a)	Single phase transformers 5 KVA on pole mounting structure	Each	462.00
b)	Single phase transformers 15 KVA on pole mounting structure	Each	694.00
c)	Three phase transformers 16/25KVA on pole mounting structure	Each	925.00
d)	Transformers from 50 KVA to 160 KVA		---
i)	On plinth	Each	1156.00
ii)	On structure		

e)	Transformers from 250 KVA to 315 KVA		
i)	On plinth	Each	1387.00
ii)	On structure		
f)	Erection/dismantling of healthy/sick PTR from plinth with accessories, radiators duly filling/draining out the oil and dragging the sick PTR to convenient locations for transport including stacking of radiators and accessories		
i)	3.15MVA	Each	5620.00
ii)	5 MVA	Each	7025.00
iii)	8 MVA	Each	8430.00
g)	Erection of additional/new PTR including loading at Stores, unloading at site & erection of PTR at site.		
i)	3.15MVA	Each	16860.00
ii)	5 MVA	Each	21075.00
iii)	8 MVA	Each	25290.00
h)	Replacement of sick PTR including loading of healthy PTR at Stores, unloading of healthy PTR at site, dismantling of sick PTR at site, Erection/commissioning of new PTR, loading of sick PTR at site and unloading of sick PTR at Stores etc.		
i)	3.15MVA	Each	33720.00
ii)	5 MVA	Each	42150.00
iii)	8 MVA	Each	50580.00
20)	**Erection of tilting/ horizontal type 11 KV AB Switch:-** Transporting of 11 KV tilting/horizontal type AB switch complete and required metallic supporting channels & studs for fixing to single pole structure so as to erect 11 KV tilting/horizontal type ABs and other parts connected to erection of the same from road side to location including loading & unloading. Erection of 11 KV tilting/horizontal type AB switch, on supporting channels, studs fitted to the pole set into operate freely i.e., opening & closing by fixing required number of guide angles, to pole and vertical operating pipe with handle including coil earthing of 11 KV tilting/horizontal type ABS handle as per standards. All the materials supplied by Department		
a)	**Erection of tilting type 11 KV AB Switch to Single pole DP Structure:-**	Each	867.00
b)	**Erection of horizontal type 11 KV AB Switch on DP Structure:-**	Each	970.00
21)	**Erection of Earth Electrodes:** Erection of earth electrodes using CI/GI pipes including pit excavation, and cement collar of 2'dia x 1' height etc complete.		
	a)GI Pipes	Each	521.00
	b)CI Pipes	Each	637.00
	Note:- In case GI/C.I Pipes are procured by the Contractor then 12% over SPDCL stores rate can be allowed for pipe cost .		
22)	**Erection of 33 KV HG Fuse set at Single Pole DTR Structure:-** Transporting of 33 KV H.G. Fuse set materials like post type insulators, Horns, pedestals etc., with seating Angles/Channels, made out of M.S. Angle from road side to location including loading	Set	555.00

	& unloading and erection of 33 KV HG fuse set at required height as per standards with connected angles & Channels by adjusting the Horns to the required gap at single pole DTR structure. All the materials supplied by Departments.		
23)	**<u>Erection of 11 KV HG Fuse set at Single Pole DTR Structure:-</u>** Transporting of 11 KV H.G. Fuse set with seating Angles/Channels, side arms, made out of M.S. Angle with MS. Angle stud from road side to location including loading & unloading and erection of 11 KV HG fuse set at required height as per standards with connected angles & Channels by adjusting the Horns to the required gap at single pole DTR structure. All the materials supplied by Departments.	Set	231.00
24)	**<u>Erection of LT Fuse set at Single Pole DTR Structure:-</u>** Transporting of LT Fuse set with seating Angles/Channels, side arms, made out of M.S. Angle with MS. Angle stud from road side to location including loading & unloading and erection of LT fuse set at required height as per standards with connected angles & Channels by adjusting the Horns to the required gap at single pole DTR structure. All the materials supplied by Departments.	Set	173.00
25)	**<u>Earthing of Distribution Transformers:</u>** Running of No 8 G.I wire from Distribution Transformer (3 Phase) AB Switch, HG Fuse Set V'X' Arm etc running of 14 SWG G.I. Wire including double earthing as per specification for running of total 10 Nos GI wires**.**	Per Lead Per length	18.00
	Note:- In case GI wire is procured by the Contractor then 12% over SPDCL stores rate can be allowed for GI wire cost.		
26)	**Paving out and laying of 33KV/11 KV UG cable** duly forming the cable trench including excavation of trench 2'X2' filling the trench with excavated earth including transporting of cable etc. complete with out construction of trench.		
a)	33 KV UG cable	RM	255.00
b)	11 KV UG cable	RM	138.00
27)	Labour charges for erection of **11 KV cable heat shrunken joint**	Each	3469.00
28)	Labour charges for erection of **33 KV cable heat shrunken joint**	Each	4624.00
29)	**11 KV AB cable end termination** consisting of 3 phases.	Set	5781.00
30)	Labour charges for **erection of 33 or 11 KV C.Ts** including all connections.		
a)	33 KV CTs	Each	370.00
b)	11 KV CTs	Each	255.00
31)	Labour charges for erection of **HT metering cubicle** including all connections and earthing as per departmental standards.	Each	579.00
32)	Labour charges for erection of **HT Trivector meter box** including all connections and earthing as per departmental standards.	Each	370.00
33)	Dismantling and Re-erection of Single Phase/ Three Phase services (Any where in the district same rate only. NO EXTRA RATE TOWARDS AREA ALLOWANCES IS ALLOWED)	One Service	20.00
34)	Extra percentage towards work involving (a) Single Pole (b) Two Pole (c) Three Poles (This rate is applicable to both Urbon and Rural areas)		
a)	Single Pole		100% extra

b)	Two Poles		50% extra
c)	Three Poles		20% extra
35)	(a) Labour charges for rectification of all types of leaned poles where the lean is more than 30 degree to the vertical.	35% of Erection Charges	
	(b) Charges for restringing of loose spans	50% of stringing charges	
36)	Labour charges for fixing of tube light fitting for street light	Each	116.00
37)	Labour charges for fixing of MV/SV lamp fitting for street light	Each	128.00
38)	Laying of earth mat/risers including excavation of trenches, welding, fixing lugs, connecting to equipment and refilling trenches using MS flat 75x8mm or 50x8mm.		
a)	75x8mm	RM	54.00
b)	50x8mm	RM	36.00
39)	Providing **security fencing** of size 2.4m x 3m x3m (total area 28.8 sqm) **to Distribution Transformer structures** with gate and locking arrangement which is one side removable and three sides fixed fencing as per the dimensions mentioned in the drawing using G.I. Chain link mesh 8 guage 50.8mm x 50.8mm (2" x 2") size, MS angle 50 x 50 x 6, MS flat 35 x 6, MS flat 25 x 6, bolts, nuts, Aldrop, hinges, concreting the supports with PCC (1:4:8), painting one coat red oxide, two coats synthetic enamel paint, complete for finished item of work. **Note:- Works are to be executed on seeking estimate sanction from the corporate office**. **Whenever it is not possible to provide fencing of size 2.4mx3mx3m, then size may be reduced and payment may be arranged based on the actual area**.		
a)	Rural areas	Sqm	872.00
b)	All other areas	Sqm	892.00
	<u>Painting of Old structures/ equipment in 33/11 KV SS</u> Note:-1) **Red oxide paint is not allowed for old structures.** 2) **Only one coat of aluminium paint or synthetic enamel paint or black bitumen paint is allowed for old structures/ equipment.**		
40)	**Painting of old structures** with **one coat of aluminium paint** including cost and conveyance of paints, brushes, labour complete.		
a)	Cost of paint	Sqm	26.00
b)	Labour charges	Sqm	36.00
c)	Total (Cost of paint + labour charges)	Sqm	62.00
41)	**Painting of old equipment** including transformers, VCBs, breakers with **one coat of synthetic enamel paint** including cost and conveyance of paints, brushes, labour complete.		
a)	Cost of paint	Sqm	20.00
b)	Labour charges	Sqm	36.00
c)	Total (Cost of paint + labour charges)	Sqm	57.00
42)	**Painting of old structures** with **one coat of Anti corrosive bitumen black paint** including cost and conveyance of paints, brushes, labour complete.		
a)	Cost of paint	Sqm	38.00
b)	Labour charges	Sqm	36.00
c)	Total (Cost of paint + labour charges)	Sqm	75.00

43)	**Painting of new structures/ equipment** in 33/11 KV SS with **one coat of Red oxide** paint and **two coats of aluminum paint.**		
a)	Cost of paint	Sqm	80.00
b)	Labour charges	Sqm	64.00
c)	Total (Cost of paint + labour charges)	Sqm	144.00
44)	**Painting of new structures/ equipment** in 33/11 KV SS with **one coat of Red oxide** paint and **two coats of synthetic enamel paint.**		
a)	Cost of paint	Sqm	64.00
b)	Labour charges	Sqm	64.00
c)	Total (Cost of paint + labour charges)	Sqm	128.00
	DISMANTLING		
45)	For all **dismantling works 50%** of erection charges shall be adopted. For poles dismantling charges at 50% is allowed only, if they are retrieved in good condition.		
	MRT WORKS		
46)	Labour for **opening of the top cover of CSP** Transformer by cutting with grinder and welding/fixing with bolts and nuts of the top cover for various capacities of Distribution transformers ie.,63 KVA,100KVA 250 KVA and 500 KVA at SPM shed inclusive of cost of welding electrodes, cost of bolts and nuts and drilling of holes	Each	1456.00
47)	Labour charges for **reclamation of used transformer oil** at MRT shed	Kilo litre	4162.00
48)	**Providing of MS vent pipe with diaphragm to the top cover of the D.Tr**. The vent Pipe consists of 50mm dia, 4mm thick copper foil should be fixed between flange of the Nipple and 180 bend. Wire gauge protection should be provided at the end of the bend Duly providing flange.	Each	879.00
	Note:- For the above three items of work the required machinery and material except general consumables such as cotton waste etc., shall be supplied by the Dept at free of cost		
49)	Handling, testing, providing of seals with cover, stacking neatly.		
a)	S phase energy meter.	Each	9.00
b)	Testing of 3 Phase energy meter	Each	16.00
50)	Removing the meter back cover, cleaning the old meter cover, painting the meter top & bottom covers with good approved enamel black paint, cleaning the meter with petrol and oiling to bearings with good 2 in 1 oil (Usha make) refixing the meter in meter cover duly providing new gaskets. Testing and adjustments of the meter as per departmental standards, loading, transporting, and unloading including introducing sealing wire to each meter including replacement of glass wherever necessary.		
a)	Including cost of paint	Each	24.00
b)	Excluding cost of paint	Each	18.00
51)	Removal or fixing of PC coil, CC coil or Disc, cyclometer or terminal block.	Each	2.50
52)	Labour charges for sealing of single phase/3 phase meters including transportation of meter box carton to work spot, unpacking, packing		

	of sealed meters and stocking etc., complete.		
a)	2 Seals	Each	5.00
b)	3 Seals	Each	5.50
c)	4 Seals	Each	8.50
53)	Labour charges for sealing of S Phase/ 3 phase energy meters housed in PP box including transportation unpacking and packing and stocking of meter box etc., complete.		
a)	2 Seals	Each	5.50
b)	3 Seals	Each	10.50
c)	4 Seals	Each	13.00
d)	6 Seals	Each	20.00
54)	**Metering arrangement with CTs to 16/25 KVA Agricultural DTRs**		
a)	Supply and rigging of meter with country wood of size 1'x1/2', 7/20 finolex wire, bolts and nuts and screws along with lugs. Removing of metallic strip in syntex box, fixing of wooden board suitably, fixing of meter and CT in position including fixing of neutral terminal bolt. Providing of internal wiring duly giving proper connections, opening of internal link in the meter duly providing sealing after testing. (energy meter and box will be supplied by the dept)	Each	601.00
b)	Supply and fixing of 2meters of aluminium cable, 05m of 3/20 copper wire, 2 sets of clamps with bolts and nuts and misc items like insulation tapes, screws etc., including labour charges for fixing of box and transport charges including loading and unloading.	Each	277.00
	.do. with 4 sets of clamps	Each	324.00
	FABRICATION OF LINE MATERIALS:- **Important Note:. (1)All the fabrication works should be done by using department materials within stores yard/premises only. Department Materials shall not be issued to the out side the stores, for fabrication purpose. Divisional Engineer/ Tech shall monitor the issue of fabrication material.** ***(2) No extra rate towards area allowance is allowed in respect of fabrication of line materials*** ***(3)Fabrication rates are inclusive of cost of Power, welding rods, Oxygen and Acetylene for cutting, welding and cutting charges, bending charges, drilling charges, red oxide paint. In case any of the above mentioned items are done in our dept workshop with the help of machinery, material and staff then accordingly rate is to be reduced from these approved rates.***		
55)	**CUTTING CHARGES:-**		
a)	60 lbs. Rail poles	Each	30.00
b)	90 lbs. Rail poles	Each	46.00
c)	105 lbs. Rail poles	Each	46.00
d)	R.S. Joists of various sizes	Each	23.00
e)	M.S. Channels of size 75 x 40 mm. and 80 x 40 mm	Each	7.00
f)	M.S. Channels of size 100 x 50 mm. and 125 x 65 mm	Each	8.00

g)	M.S. Channels of size 150 x 75 mm. and above	Each	12.00
h)	M.S. Angles of sizes 50 x 50 x 6 mm. and 55 x 55 x 5 mm.	Each	3.50
i)	M.S. Angles of size 65 x 65 x 6 mm. and above	Each	4.50
j)	M.S. Flat 75 x 8 mm.	Each	2.50
k)	M.S. Flat of size 50 x 6 mm.	Each	2.50
l)	M.S. Flat of width below 50 mm.	Each	1.50
m)	M.S. Rounds up to 23 mm.	Each	2.50
56)	**DRILLING CHARGES**		
a)	Charges for drilling of holes to various sizes of angle, channel and flats.		
i)	For holes up to 18 mm.	Each	2.50
ii)	For holes above 18 mm	Each	3.50
b)	Drilling of holes of various sizes to R.S. Joists and Rail poles with rachet or hand Drilling machine:		
i)	For R.S. Joists	Each	4.50
ii)	For 60 lbs. Rail poles	Each	5.00
iii)	For 90 lbs. Rail poles	Each	6.00
c)	Drilling of holes of various sizes to R.S. Joists or Rails poles using power drilling Machine:.		
i)	For R.S. Joists	Each	3.50
ii)	For 60 lbs. Rail poles	Each	4.50
iii)	For 90 lbs. And 120 lbs Rail	Each	5.50
57)	**FABRICATION CHARGES: Fabrication of the following materials including cost of consumables, cutting, drilling charges, but excluding the cost of raw materials**		
a)	**33 KV "V" Cross arms** with 100x50 mm MS Channel 2.08mtrs(6'.10") – Weight of the materials=19.0 Kg	Each	453.00
b)	**11KV "V" Cross arms** .		
i)	With 75x40 mm M.S. Channel . Weight of the materials = 9 Kgs.(with 4 nos 50x50x6 packing plates are welded)	Each	410.00
ii)	With 65x65x6mm M.S. Angle – . Weight of the materials =8.2 Kgs	Each	233.00
c)	**LT 3.Phase 4 Wire Cross arms.**		
i)	With 50x50x6mm M.S. Angle(3'.8") . Weight of the materials = 5.75 Kgs.	Each	118.00
ii)	With 65x65x6mm M.S. Angle (3'.8") – Weight of the materials = 7 Kgs	Each	122.00
d)	**LT 3.Phsse 5 Wire Cross arms ..**		
i)	With 50x50x6mm M.S. Angle(4'.5")– Weight of the materials = 7.3 Kgs	Each	144.00
ii)	With 65x65x6mm M.S. Angle (4'.5") – Weight of the materials = 9.6 Kgs	Each	147.00
e)	**LT S.Phase 3 Wire Cross arms** with 50x50x6mm M.S. Angle (2'.5") = Weight of the materials = 4.2 Kgs.	Each	93.00
f)	**M.S. Stay sets**		
i)	**M.S. Stay sets with 20 mm M.S. Rod** & Stay Clamps with **100x50mm M.S. Channel** . Weight of the materials = 10.3 Kgs	Each	126.00
ii)	**M.S. Stay sets with 20 mm M.S. Rod** & Stay Clamps with **75**	Each	118.00

	x40mm M.S. Channel . Weight of the materials = 10.2 Kgs.		
iii)	**M.S. Stay sets with 16mm M.S. Rod** & Stay Clamps with **100x50mm M.S. Channel** .Weight of the materials = 8.0 Kgs	Each	120.00
iv)	**M.S. Stay sets with 16mm M.S. Rod** & Stay Clamps with **75x40xmm M.S. Channel** .Weight of the materials = 7.6 Kgs	Each	113.00
v)	**M.S. Stay sets with 16mm M.S. Rod** & Stay Clamps with **50x50x6mm M.S. Angle** – Weight of the materials = 6.3 Kgs	Each	109.00
g)	**33KV Top Fitting**		
i)	**33KV Top Fitting** with Clamps with 75x40mm M.S. Channel . Weight of the materials = 6.9 Kgs.	Each	126.00
ii)	**33KV Top Fitting** with Clamps with 65x65x6mm M.S. angle . Weight of the materials = 6.5 Kgs.	Each	113.00
h)	**11KV Top Fittings**		
i)	**11KV Top Fittings** with Clamps 65x65x6mm M.S. Angle – Weight of the materials = 4.4 Kgs.	Each	113.00
ii)	**11KV Top Fittings** with Clamps 50x50x6mm M.S. Angle . Weight of the materials = 3.63Kgs.	Each	109.00
iii)	**11KV Special Top Fittings** with Clamps (2'.0" Height) 50x50x6mm M.S. Angle – Weight of the materials = 3.6Kgs.	Each	109.00
i)	**LT Top Fittings** with Clamps 50x6mm M.S. Flat – Weight of the materials = 2.4 Kgs.	Each	35.00
j)	**11KV Tapping Cross arms** with (5.6") 100x50mm M.S. Channel – Weight of the materials =13.4 Kgs	Each	71.00
k)	**11KV Tapping Cross arms** with (5.6") 75x40mm M.S. Channel – Weight of the materials = 11.2 Kgs.	Each	111.00
l)	**33KV Tapping Cross arms** with (7'.0") 100x50mm M.S. Channel – Weight of the materials = 16.2 Kgs.	Each	75.00
m)	**HT/LT Side arms with strut** (7'.6") 75x40mm M.S. Channel (7'.6") 50x50x6mm M.S. Angle (3'.6") 50x50x6mm M.S. Angle (3'.0") 50x50x6mm M.S. Angle – Weight of the materials = 37.600Kgs.	Each	104.00
n)	**LT Side arms with strut** (5'.6") 50x50x6mm M.S. Angle (6'.0") 50x50x6mm M.S. Angle – Weight of the materials = 15.600Kgs.	Each	151.00
o)	M.S Back Clamps (1'.3")		
i)	With 50x6mm M.S. Flat for 8m/140 Kg Pole – Weight of the materials = 0.84 Kgs.	Each	15.00
ii)	With 50x6mm M.S. Flat for 8m/200 Kg Pole – Weight of the materials = 0.924 Kgs.	Each	15.00
iii)	With 75x8mm M.S. Flat for 9.1m/280 Kg Pole – Weight of the materials = 2.17 Kgs.	Each	16.00
p)	M.S. Stay Clamps (1'.1" X 2Nos.) 50x6mm M.S. Flat – Weight of the materials = 1.640Kgs.		
i)	For 8m/140 Kg Pole – Weight of the materials = 1.38 Kgs.	Each	24.00
ii)	For 8m/200 Kg Pole – Weight of the materials = 1.416 Kgs.	Each	25.00
iii)	For 9.1m/280 Kg Pole – Weight of the materials = 3.71 Kgs.	Each	31.00

q)	Pole mounting arrangement for 3.Phase 16/25 KVA DTR'S (4'.0=2Nos.) 75x40mm M.S. Channel (5'.0" =1No) 50x50x6mm M.S. Angle (1'.6"=2Nos.)50x50x6mm M.S. Angle (1'.1"=2Nos.)50x50x6mm M.S. Flat – Weight of the materials = 26 Kgs.	Each	228.00
	NEW ITEMS		
r)	D.P. Structures total set 10' – 2Nos. 100 x 50 MS Channel 10' .2Nos. 50 x 50x 6 Angle 3' – 3 Nos. 75 x 40 Channel 2' – 4Nos. 50 x 6 MS Flat	Each set	473.00
s)	Spun Pole Clamps		
	i) Back Clamps	Each	27.00
	ii) Stay Clamps	Each	22.00
t)	Extension Pieces	Each	137.00
u)	Single Phase pole mounting		
v)	HT/LT Spun Pole mounting 8' – 100 x 50 Channel 21' – 65 x 65 Angle 12' – 75 x 8 MS Flat	Set	320.00
w)	AB Switch OFF & ON Base with Clamp	Set	55.00
58)	**WELDING CHARGES:.**		
59)	**ARC WELDING** charges for all steel materials to a length of 25 mm.(1") of weld including cost of power and electrodes.		
a)	Double welding	25mm	12.00
b)	Single welding	25mm	5.50
60)	**GAS WELDING** charges for all steel materials to a length of 25 mm.(1") of weld including cost of gas	25mm	10.50
61)	**GAS CUTTING**	25mm	4.00
62)	Structural Steel erection Charges	1Kg	16.00

IV. LOADING AND UN.LOADING CHARGES

(No extra rate towards area allowance is allowed in respect of loading and unloading charges)

S. No.	Item	Unit	Loading	Un.loading
1)	**POLES/ SUPPORTS**			
a)	**PSCC POLES**			
i)	8m /140 Kg.	Each	73.00	25.00
ii)	8m/ 200 Kg	Each	73.00	25.00
iii)	8m/300 Kg	Each	109.00	36.00
iv)	9.1 m/280 Kg.	Each	122.00	36.00
b)	**SPUN POLES**			
i)	11m /350 Kg	Each	267.00	86.00
ii)	12.5m /350 Kg	Each	315.00	98.00
c)	**RS JOISTS /RAIL POLES**			
i)	RS Joists 150x150 or 175x80 (10m)	Each	73.00	25.00
ii)	Rail poles 60 lbs (27 feet)	Each	48.00	15.00
iii)	Rail poles 90 lbs. (30 feet)	Each	79.00	25.00
d)	**RCC Base plates**	Each	2.50	2.50
2)	**TRANSFORMERS**			
a)	**Power Transformers**			
i)	1.6 MVA	Each	1724.00	1724.00
ii)	3.15 MVA	Each	5620.00	5620.00
iii)	5.0 MVA	Each	7025.00	7025.00
iv)	8.0 MVA	Each	8430.00	8430.00
b)	**Distribution Transformers**			
i)	Single Phase 5 KVA	Each	61.00	61.00
ii)	Single Phase 15 KVA or 3 Phase 16/25 KVA	Each	134.00	134.00
iii)	DTRs up to 100 KVA	Each	243.00	243.00
iv)	Amorphous make DTRs 100 KVA	Each	304.00	304.00
v)	DTRs from –160 KVA	Each	365.00	365.00
vi)	DTRs from –250 KVA to 315 KVA	Each	608.00	608.00
vii)	33 KV P.T. (or) C.T.	Each	134.00	134.00
viii)	11 KV P.T. (or) C.T.	Each	67.00	67.00
c)	**Isolators**			
i)	33 KV AB switch	Each	57.00	57.00
ii)	11 KV AB switch	Each	29.00	29.00
iii)	11 KV H.G. Fuse set	Each	7.50	7.50
iv)	L.T. H.G. Fuse set	Each	6.00	6.00
3)	**EQUIPMENT**			
a)	33 KV VCB	Set	971.00	971.00
b)	11 KV VCB	Set	801.00	801.00

c)	11 KV control panels	Each	109.00	109.00
d)	11 KV Metering cubicle	Set	145.00	145.00
e)	Batteries	Each	2.50	2.50
f)	Trickal Chargers with batteries	Each	25.00	25.00
4)	**IRON MATERIALS**			
a)	Iron and steel materials, H.T., Mild. steel wire, stay wire, G.I. Wire etc., and stacking	MT	218.00	218.00
b)	D.P. structural materials	Set	25.00	25.00
c)	Seating arrangements of 3 phase 16/25 KVA DTRS	Each	12.00	12.00
d)	33 KV ' V' cross arms	Each	4.50	4.50
e)	11 KV ' V' cross arms	Each	4.00	4.00
f)	Three phase cross arms	Each	1.50	1.50
g)	Single phase cross.arm	Each	1.00	1.00
h)	33 KV Top Fittings	Each	2.50	2.50
i)	11 KV Top Fittings	Each	2.00	2.00
j)	L.T Top Fittings	Each	1.00	1.00
k)	Back clamps	Each	1.00	1.00
l)	Stay clamps set	Set	1.00	1.00
m)	Stay set	Set	4.00	4.00
n)	G.I. Earth pipes	Each	2.00	2.00
o)	C.I. Earth Pipes	Each	7.50	7.50
p)	'A' Type Distribution Box	Each	6.00	6.00
q)	B' type distribution box	Set	2.50	2.50
5)	M.S Bolts & Nuts and GI Bolts & Nuts	Kg	0.50	0.50
6)	**INSULATORS & PINS**			
a)	33KV			
i)	33 KV Post type Insulators			
(1)	2 piece type	Each piece	1.00	1.00
(2)	Single piece solid core type	Each	1.60	1.60
ii)	33 KV Pin Insulators	Each	1.40	1.40
iii)	33 KV G.I. Pins	Each	0.60	0.60
iv)	33 KV Polymer disc	Each	0.60	0.60
v)	33 KV LAS	Each	24.00	24.00
b)	**11KV**			
i)	11 KV Post type Insulators	Each	1.00	1.00
ii)	11 KV Pin Insulators	Each	1.00	1.00
iii)	11 KV GI Pins	Each	0.60	0.60
iv)	11 KV Disc Insulators	Each	1.00	1.00
v)	11 KV Polymer disc	Each	0.60	0.60

vi)	11 KV/33KV Metal parts	Set	0.60	0.60
vii)	H.T. Guy Insulators	Each	0.70	0.70
viii)	11 KV LAS			
(1)	Station type	Each	12.00	12.00
(2)	Line Type	Each	2.50	2.50
c)	**LT**			
i)	L.T. Pin Insulators	Each	0.50	0.50
ii)	L.T.G.I. Pins	Set	0.50	0.50
iii)	L.T. Shackles	Each	0.60	0.60
iv)	L.T. metal parts	Set	0.50	0.50
v)	L.T. Guy Insulators	Each	0.60	0.60
7)	**CONDUCTOR/ CABLE**			
a)	All Conductor drums	Drum	243.00	243.00
b)	PVC cable above 25 sq.mm., and up to 185 sq.mm/ 33KV/11KV/LT XLPE UG Cable	MT	218.00	218.00
c)	PVC cable up to and including 10 sq.mm.,	Coil	1.60	1.60
d)	**Un coiling of cables/ conductors**			
i)	Un.coiling of conductor from main drum and loading	KM	61.00	61.00
ii)	Un.coiling of PVC Cable/ Control cables From 25 to185 Sq.mm	100 RM	48.00	48.00
iii)	Un.coiling XLPE Power Cable	Metre	9.00	9.00
iv)	Un.coiling of panther conductor	100 RM	65.00	65.00
8)	**GENERAL ITEMS**			
a)	Transformer oil drums with oil	Each	36.00	36.00
b)	Empty oil drums	Each	2.50	2.50
c)	C.T. Meters	Each	7.50	7.50
d)	3 Phase Meter boxes and CT Meter boxes	Each	2.50	2.50
e)	Three phase meters	Each	2.00	2.00
f)	Single phase meters	Each	1.20	1.20
g)	Pilfer proof box	Set	0.90	0.90
h)	Fuse units 16 A to 32 A	Each	0.50	0.50
i)	Fuse units 63 A / 100 A	Each	0.40	0.40
j)	Fuse units 200 A, 300 A	Each	0.60	0.60
k)	Lugs	Per Box	0.70	0.70
l)	Male / Female Contacts	Per Bag	12.00	12.00
m)	Cable Jointing kits	Each	1.30	1.30
n)	Street light fixture	Set	0.80	0.80
o)	Fuse wire and other MRT Materials	1 Kg	1.20	1.20

p)	Winding wire up to 5 Kg including weighing.	Each real	3.20	3.20
q)	Winding wire more than 5 Kg including weighing.	Each real	7.50	7.50
r)	**Paints**			
i)	Paints up to & including 5 litres	Each	1.30	1.30
ii)	Paints above 5 litres and up to including 20 litres	Each	5.00	5.00
s)	Cement	MT	98.00	98.00
t)	**Loading and unloading of any other materials**			
i)	up to 10 Kg (Indoor Items)	Per Bag/Box	7.50	7.50
ii)	more than 10 Kg (Indoor Items)	Per Bag/Box	12.00	12.00
iii)	11KV 200A Tilting Type AB Switch Mounting arrangements for 8.0M PSCC poles	Each	8.00	8.00
iv)	40 KVA DTR mounting arrangements	Each	16.50	16.50
v)	33KV HV/LV twin feeder panel	Each	115.00	115.00
9)	**SCRAP**			
a)	Aluminium scrap, Copper Scrap and Plastic Scrap including weighing	MT	485.00	485.00
b)	Meters Scrap including weighing	MT	485.00	485.00
c)	M S Scrap and lead scrap including weighing	MT	365.00	365.00

V. TRANSPORT CHARGES

1.General Transport items:.

Sl No	Item	Unit	Rate
1	Single bullock with driver and cart	Day	345.00
2	Bullock pair with driver	Day	350.00
3	Bullock pair with driver and cart	Day	365.00
4	Bullock pair with driver and cart with pneumatic tyres	Day	384.00
5	Nava with crew	Day	335.00
6	Punt thundal	Day	251.00
7	Punt lascar	Day	251.00

2.Transport of Cement:-

Sl No	Lead in KM	Transport charges of Cement per MT
1	Up to and including 5.0Km	Rs.208.00 Ps.
2	5.0Km to 500 Km	Rs. 208.00 Ps + Rs.5.30 Psper Km above 5.0 Km
3	Beyond 500 Km	Rs.3.50 Ps per Km above

3. Transport of steel materials(including ribbed rod, HT steel wire, channels, angles, RS joists, rail poles, fabricated materials) and lubricating oil:-

(These rates are excluding the loading, un-loading & stacking charges).

Sl No	Lead in Km	Transport charges per MT
1.	0.5 KM	237.00
2.	1.0 KM	241.00
3.	2.0 KM	250.00
4.	3.0 KM	261.00
5.	4.0 KM	271.00
6.	5.0 KM	280.00
7.	6.0 KM	304.00
8.	7.0 KM	312.00
9.	8.0 KM	324.00
10.	9.0 KM	333.00
11.	10.0 KM	344.00
12.	11.0 KM	355.00
13.	12.0 KM	364.00

14.	13.0 KM	375.00
15.	14.0 KM	384.00
16.	15.0 KM	395.00
17.	16.0 KM	403.00
18.	17.0 KM	412.00
19.	18.0 KM	423.00
20.	19.0 KM	433.00
21.	20.0 KM	446.00
22.	Beyond 20 KM and up to 30 KM(Rate/Km)	10.00
23.	Beyond 30 KM and up to 50 KM(Rate/Km)	8.00
24.	Beyond 50 KM and up to 80 KM(Rate/Km)	8.00
25.	Beyond 80 KM and up to 100 KM(Rate/Km)	7.00
26.	Beyond 100 Km (Rate/Km)	6.60

4.TRANSPORT OF LINE MATERIALS :-

(A) For leads up to 250KM excluding the loading and un.loading charges.

Lead in KM	PerTonne	Lead in KM	PerTonne
0.5 KM	204.00	11.0 KM	296.00
1.0 KM	207.00	12.0 KM	314.00
2.0 KM	217.00	13.0 KM	319.00
3.0 KM	225.00	14.0 KM	323.00
4.0 KM	236.00	15.0 KM	330.00
5.0 KM	245.00	16.0 KM	334.00
6.0 KM	254.00	17.0 KM	339.00
7.0 KM	264.00	18.0 KM	343.00
8.0 KM	273.00	19.0 KM	355.00
9.0 KM	279.00	20.0 KM	363.00
10.0 KM	287.00		

For leads from 21 KM up to 30 KMs, add Rs. 6.80 for every additional 1KM or part there of.

For leads from 31 KM up to 50 KMs, add Rs. 6.00 for every additional 1KM or part there of.

For leads from 51 KM up to 80 KMs, add Rs. 5.50 for every additional or 1KM part there of.

For leads from 81 KM up to 100 KMs add Rs. 4.60 for every additional 1KM or part there of

For leads from 101 KM up to 250 KM, add Rs.4.00 for every additional 1KM or part there of

(B) For distances of 251 KM and above, flat rates per M.T. per KM, are worked out, and they are to be taken for calculation directly without taking into account the rates given above for various ranges from 20 to 250 KM .

These rates are as detailed below.

1. 251 to 300 KM . Rs.5.50
2. 301 to 400 KM . Rs.5.00
3. 401 to 500 KM . Rs.4.90
4. Above 500 KM . Rs.4.60

The above rate are excluding the loading, un loading & stacking charges.

NOTE :

a) Higher rates may be allowed in the marginal limits of slab.

b) In respect of scattered works, and part loads, the above rates are applicable for working out load KM. This should be applied in the event of necessity for transport of part loads and where there is no scope for utilization of department lorries.

c) Transport of conductor drums, transformer oil drums, and fragile materials such as kiosks, L.As, Insulators, Transformers, Meters etc., which occupy more space and less weight, the rates with 20% excess over the rates for line materials shall be adopted. Loading and un.loading charges are payable extra.

5.Transport Of PSCC/Spun Poles:

a. Pole weights:.

Sl No	Type of pole	Weight in Kg/Pole
1	8m/140Kg PSSC pole	355 Kg
2	8m/200Kg PSSC pole	380 Kg
3	8m/300Kg PSSC pole	505 Kg
4	9.1m/280Kg PSSC pole	680 Kg
5	11m/365Kg PSCC Pole	1127Kg
6	9.5m/300Kg SPUN pole	620 Kg
7	11m/350Kg SPUN pole	900 Kg
8	12.5m/350Kg SPUN pole	1200 Kg

b. **Transport by head loads**:.In case of hilly areas 30% extra is to be allowed for transport of poles by head loads.

c. **Transport by bullock carts**:. Up to 8.0 KM, a rate of Rs.115..00 per pole is to be adopted excluding loading and un loading charges.

d. **Transport by lorries:-**The rates per Metric Tone for leads up to 250 KM are as follows and they are excluding the loading and un loading charges.

Lead in KM	Per Tonne	Lead in KM	Per Tonne
0.5 KM	255.00	11.0 KM	398.00
1.0 KM	266.00	12.0 KM	400.00
2.0 KM	283.00	13.0 KM	403.00
3.0 KM	293.00	14.0 KM	410.00
4.0 KM	306.00	15.0 KM	429.00
5.0 KM	316.00	16.0 KM	432.00
6.0 KM	331.00	17.0 KM	434.00
7.0 KM	343.00	18.0 KM	447.00
8.0 KM	356.00	19.0 KM	459.00
9.0 KM	370.00	20.0 KM	486.00
10.0 KM	384.00		

For leads from 21 KM up to 30 KM add Rs. 9.90 per 1 KM for every additional KM or part there of.

For leads from 31 KM up to 50 KM add Rs.8.20 per 1 KM**)** for every additional KM or part there of.

For leads from 51 KM up to 80 KM add Rs. 7.50 per 1 KM for every additional KM or part there of.

For leads from 81 KM up to 100 KM add Rs.6.50 per 1 KM for every additional KM or part there of.

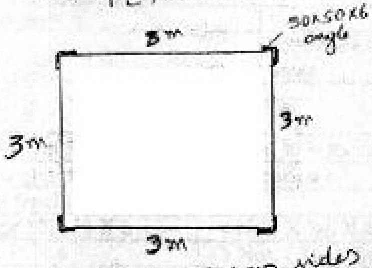
For leads from 101 KM up to 250 KM add Rs.6.00 per 1KM for every additional KM or part there of.

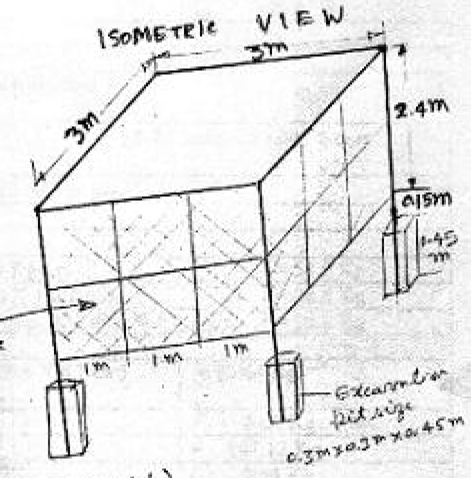
(b) For distances of 251 KM and above, flat rates are worked out for every 100 KM and they shall be taken for calculation directly without taking into account, the rates given above for various ranges from 20 to 250 KM . The flat rates per M.T. per K.M. are detailed below and they are excluding the loading and un loading charges.

1. 251 KM to 300 KM . Rs. 7.50
2. 301 KM to 400 KM . Rs. 7.30
3. 401 KM to 500 KM . Rs. 6.80
4. Above 501 KM . Rs.6.70

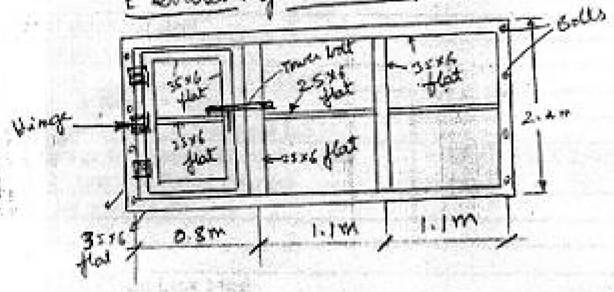
Note :. Higher rates may be allowed in the marginal limits of slabs.

Security fencing with Gate & locking arrangement and one side removable fencing, three sides fixed fencing to DTRs.

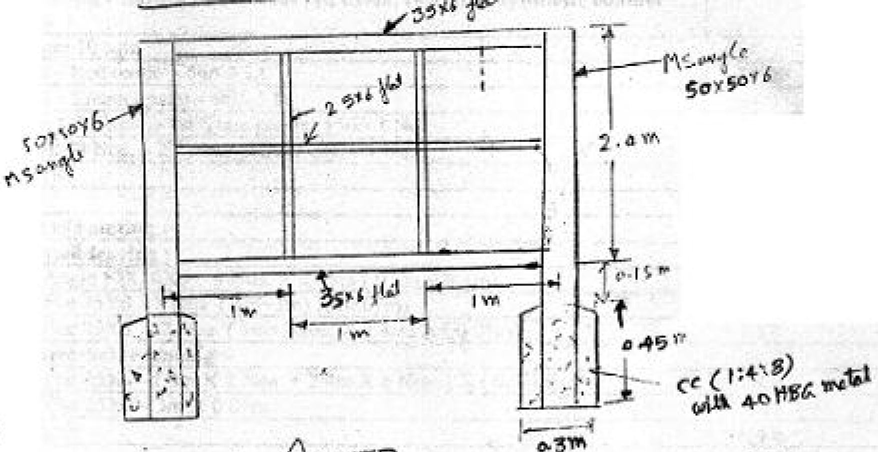




Elevation of detachable fencing (one side)



Elevation of fixed fencing (Three sides)



APPROVED

CHIEF GENERAL MANAGER
Operation ...
APSPDCL TIRUPATI

P. Yogananda
ADE/C