



# NEWS & NOTES

## PART – I

### I. GENERATION / RELIEF PARTICULARS:

The Generation / Relief particulars for the month of July 2015 were as follows:

Sl.No.	Particulars	In Million Units
I.	<b>TNEB GENERATION (Gross)</b>	
	Hydro	407.523
	Thermal	2117.865
	Gas	155.316
	Wind & Solar	2.700
	<b>TNEB TOTAL</b>	<b>2683.404</b>
II	<b>NET PURCHASES FROM CGS</b>	<b>2335.362</b>
III	<b>PURCHASES</b>	
	IPP	235.681
	Windmill Private	2119.960
	CPP, Co-generation & Bio-Mass (Provisional)	91.500
	Solar (Private)	2.139
	Through Traders (Nett Purchase)	1582.030
	<b>TOTAL PURCHASES</b>	<b>4031.310</b>
IV	<b>TOTAL</b> (Gross generation + Net import + Purchases)	<b>9050.076</b>
V	Load shedding & Power cut relief (Approx)	13.487
VI	Less energy used for Kadamparai pump	19.340
	Less Aux. consumption for Hydro, Thermal & Gas	182.359
VII	<b>AVERAGE PER DAY REQUIREMENT</b>	<b>292</b>
VIII	<b>DETAILS OF NET PURCHASES FROM CGS &amp; OTHER REGIONS:</b>	
	Neyveli TS-I	242.157
	Neyveli TS-I Expansion	152.992
	Neyveli TS-II Expansion	34.343
	NTPL	40.932
	Neyveli TS-II Stage-1	128.713
	Neyveli TS-II Stage-2	139.816
	MAPS APS	201.735
	Kaiga APS	156.231
	Kudankulam NPCIL	(-) 9.750
	Ramagundam NTPC (Stage 1 & 2)	309.407
	Ramagundam NTPC (Stage 3)	97.675
	Eastern region	23.127
	Talcher Stage-II NTPC	321.561
	Simhadri Stage-II NTPC	151.159
	Vallur NTECL	393.968
	Solar bundled NRVN Power from NTPC stations	3.095
	Inter State Deviation Settlement Mechanism (Provisional)	(-) 50.000
	Intra State Deviation Settlement Mechanism (Provisional)	(-) 1.800
	<b>TOTAL NET PURCHASES</b>	<b>2335.362</b>

**IX DETAILS OF PURCHASES FROM IPPs**

Samalpatti Power Company Pvt Ltd	0.373
Madurai Power Corporation Pvt Ltd	0.414
PPN Power Generating Company Pvt Ltd	(-) 0.602
TAQA Neyveli Power Company Pvt Ltd (STCMS)	148.362
Lanco Tanjore Power Company Ltd. (ABAN)	53.934
Pioneer Power Ltd (Penna)	33.200

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<b>TOTAL</b>	<b>235.681</b>
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**X DETAILS OF OTHER PURCHASES**

Through Traders	1582.030
CPPs	10.000
Co-generation	80.000
Bio-Mass	1.500
Wind Mill (Pvt.)	2119.960
Solar (Pvt.)	2.139
<b>TOTAL</b>	<b>3795.629</b>

<b>XI SWAP POWER RETURN / BANKING BY TNEB</b>	<b>0.000</b>
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XII	Maximum sustained Grid demand met in MW/Date	13766	02.07.15
	Maximum consumption reached in M.U.Date	303.039	08.07.15

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**XIII. STORAGE POSITION:**

The Storage equivalent in M.U.as on 01.08.2015 is compared with that of the storage equivalent as on the same day last year as below (Figs. In MU):-

Sl. No.	Name of the Group	As on 1 <sup>st</sup> of the month this year	As on 1 <sup>st</sup> of the month previous year	Difference
1.	Nilgiris	1,033.599	956.991	76.608
2.	P.A.P.	178.483	201.467	(-) 22.983
3.	Periyar	51.340	39.325	12.015
4.	Papanasam & Servalar	12.584	6.598	5.986
5.	Suruliyar	14.936	14.026	0.910
6.	Kodayar	154.389	68.212	86.177
7.	<b>Total Excluding Mettur</b>	<b>1,445.330</b>	<b>1,286.618</b>	<b>158.712</b>
8.	For Mettur	113.270	74.200	39.070

Superintending Engineer/LD & GO.

**PERFORMANCE OF THERMAL STATIONS FOR JULY 2015.****i) TUTICORIN (5 x 210 MW):**

The details of generation at Tuticorin T.P.S. during July 2015 were as follows:

	Unit	Availability Factor (%)	Generation in MU	Plant Load Factor (%)	Remarks
I	(210 MW)	81.80	113.05	72.40	
II	(210 MW)	95.40	132.13	84.60	
III	(210 MW)	100.00	137.92	88.30	
IV	(210 MW)	54.50	78.80	50.40	
V	(210 MW)	95.90	131.38	84.10	
	<b>STATION</b>	<b>85.50</b>	<b>593.28</b>	<b>75.90</b>	

**ii) METTUR - I (4 x 210 MW):**

The details of generation at Mettur T.P.S.-I during July 2015 were as follows:

	Unit	Availability Factor (%)	Generation in MU	Plant Load Factor (%)	Remarks
I	(210 MW)	31.17	46.107	29.51	
II	(210 MW)	100.00	156.249	100.01	
III	(210 MW)	77.95	111.255	71.21	
IV	(210 MW)	82.57	116.014	74.25	
	<b>STATION</b>	<b>72.92</b>	<b>429.625</b>	<b>68.74</b>	

**iii) NORTH CHENNAI - I (3 x 210 MW):**

The details of generation at North Chennai T.P.S.- I during July 2015 were as follows:

	Unit	Availability Factor (%)	Generation in MU	Plant Load Factor (%)	Remarks
I	(210 MW)	96.47	139.38	89.21	
II	(210 MW)	64.50	95.555	61.16	
III	(210 MW)	96.76	145.225	92.95	
	<b>STATION</b>	<b>85.91</b>	<b>380.155</b>	<b>81.10</b>	

**iv) ENNORE (2 x 60 MW + 3 x 110 MW) :**

The details of generation at Ennore T.P.S. during July 2015 were are follows :-

	Unit	Availability Factor (%)		Generation in MU	Plant Load Factor (%)		Remarks
I	(60 MW)	64.70		10.299	23.07		
II	(60 MW)	-		-	-		Shut down
III	(110 MW)	-		-	-		Shut down
IV	(110 MW)	84.000		29.241	35.73		
	<b>STATION</b>	340 MW	450 MW	<b>39.540</b>	340 MW	450 MW	*
		38.6	29.2		15.63	11.81	

**Note :** Board of TANGEDCO has accorded approval to keep Unit V under permanent shutdown condition and exclude the 110 MW capacity Unit - V from the station installed Capacity of 450 MW and to derate the Station to 340 MW for calculation of PLF and other Performance parameters of ETPS after getting concurrence from CEA. In this regard, a letter has been addressed to CEA on 8.8.13 Unit-V under shutdown from 6.3.12/7.10 hrs.

**v) METTUR - II (1 x 600 MW):**

The details of generation at Mettur T.P.S.-II during July 2015 were as follows:

	Unit	Availability Factor (%)	Generation in MU	Plant Load Factor (%)	Remarks
I	(600 MW)	85.04	310.20	69.49	
	<b>STATION</b>	85.04	310.20	69.49	

**vi) NORTH CHENNAI - II (2 x 600 MW):**

The details of generation at North Chennai T.P.S.-II during July 2015 were as follows:

	Unit	Availability Factor (%)	Generation in MU	Plant Load Factor (%)	Remarks
I	(600 MW)	100.00	365.0650	81.78	
II	(600 MW)	-	-	-	Shut down
	<b>STATION</b>	<b>50.00</b>	<b>365.0650</b>	<b>40.89</b>	

**GENERAL :**

S.No.	Details	T.T.P.S.	M.T.P.S.-I	N.C.T.P.S.-I	E.T.P.S.	M.T.P.S.-II	N.C.T.P.S.-II
1.	Specific Coal Consumption (Kg./ug.)	0.711	0.612	0.663	1.315	0.592	0.64
2.	Specific Oil consumption (ml/ug)	0.62	0.804	0.63	8.7	2.3017	0.18
3.	Auxiliary consumption (%)	8.24	8.52	8.89	21.20	6.13	6.03

Superintending Engineer/Betterment Thermal.

**COAL PARTICULARS FOR JULY 2015:**

S.No.	Particulars	TTPS.	MTPS. I	M.T.P.S. II (1x600 MW)	NCTPS. I	NCTPS.I (2x600 MW)	ETPS.
1.	Coal to be supplied (*) (Ind. coal)	3.60	2.89	1.53	2.18	3.06	1.21
2.	Coal Receipt (Ind. coal)	3.24	2.13	1.37	3.75		0.46
		(Imp coal) 1.65	2.21	1.62	1.96		--
3.	Coal consumption (Ind. coal)	3.17	1.48	0.81	2.09	1.33	0.52
		(Imp coal) 1.05	1.15	1.03	0.43	0.99	--
4.	Coal stock as on 31.07.2015 (Ind. coal)	2.25	1.51	1.65	0.96		0.35
		(Imp coal) 0.89	1.36	1.28	0.91		--

(\*) As per Fuel Supply Agreement signed by TANGEDCO with MCL & ECL.

**Note:** Ind coal - Indigenous coal , imp coal - Imported coal

Superintending Engineer/Coal.

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**STATEMENT-A**  
**STATEMENT SHOWING THE DETAILS OF POSTS CREATED DURING THE MONTH OF JULY 2015.**

Sl. No.	Reference in which the posts were Created	Name of the Circle	Class / Cadre	Name of the Post	No. of Post	Purpose	Period
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	(Per.) CMD TANGEDCO Pro.No.133, (S.B.) Dt.01.07.2015.	CE/ Grid Operation, Chennai	Cl.I-Tech. Cl.II-Tech.	SE/ Elecl. AEE/ Elecl.	1 1	Creation of one post of SE/ Elecl. and one post of AEE/ Elecl. duly abolishing one post of EE/ Elecl in the O/o CE/ Grid Operation/ Chennai.	For a period upto 29.02.2016 from the date of utilisation of posts.
2.	(Per.) CMD TANGEDCO Pro. No.134, (S.B.) Dt.02.07.2015.	CFC/ General/ Chennai.	Cl.I-Accts. Cl.II-Accts.	DFC AAO	1 2	Creation of one post of DFC and two posts of AAO in the O/o CFC/ General/ Accts. Branch/ Chennai due to formation of "Taxation" Division.	For a period upto 29.02.2016 from the date of utilisation of posts.
3.	(Per.) CMD TANGEDCO Pro. No.147, (Adm.Br.) Dt.02.07.2015	Chengalpattu EDC	Cl.II-Tech. Cl.III-Pro. Cl.III-RWE  Cl.IV-RWE	AE/JE/El. I Gr. JE/El. II Gr. F.M. I Grade Line Inspector Wireman FA/ Mazdoor	2 8 2 4 2 4 22	Creation of posts to the newly formed 2 Nos. 110/11 KV Vallam Vadagal SS and Maduranthagam SS in Chengalpattu EDC.	For a period of one year from the date of utilisation of posts.
4.	(Per.) CMD TANGEDCO Pro. No.148, (Adm.Br.) Dt.02.07.2015.	Sivaganga EDC	Cl.II-Tech. Cl.III-Pro. Cl.III-RWE  Cl.IV-RWE	AE/JE/El. I Gr. JE/El. II Gr. F.M. I Grade Line Inspector Wireman FA/ Mazdoor	1 4 1 2 1 2 11	Sanction of posts to the newly formed 110/22 KV (NG) SS at Marava -mangalam in Sivaganga EDC.	For a period of one year from the date of utilisation of posts.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
5.	(Per.) CMD TANGEDCO Pro.No.152, (Adm.Br.) Dt.03.07.2015.	Thiruvannamalai EDC	Cl.III-RWE  Cl.IV-RWE	Line Inspector Wireman Field Asst.	4 2 2 8	Sanction of posts to the new 33/11 KV (Outdoor) SS at Mandakolathur in Thiruvannamalai EDC.	For a period of one year from the date of utilisation of posts.
6.	(Per.) CMD TANGEDCO Pro.No.153, (Adm.Br.) Dt.06.07.2015	Thanjavur EDC	Cl.III-RWE  Cl.IV-RWE	Line Inspector Wireman Field Asst.	4 2 2 8	Sanction of posts for the conversion of Unmanned 33/11 KV SS as regular Manned 33/11 KV (Outdoor) SS at Valangaiman in Thanjavur EDC.	For a period of one year from the date of utilisation of posts.
7.	(Per.) CMD TANGEDCO Pro.No.154, (Adm.Br.) Dt.06.07.2015.	Thanjavur EDC	Cl.I-Tech. Cl.II-Tech.  Cl.III-RWE  Cl.IV-RWE	EE/ Elecl. AEE/ Elecl. AE/JE/ El. I Gr. Spl. Gr. FM Tech. Asst. Line Inspector Wireman FA/ Mazdoor	1 5 1 1 4 2 2 4 20	Creation of posts to the 230/110 KV SS at Kumbakonam in Thanjavur EDC.	For a period of one year from the date of utilisation of posts.
8.	(Per.) CMD TANGEDCO Pro.No.142, (S.B.) Dt.07.07.2015.	Sectt. Branch	Cl.I-Adm.	Sr. Dy. Director of Sports.	1	Upgradation of one post of Dy. Director of Sports as Senior Deputy Director of Sports in Sectt. Branch.	For a period upto 29.02.2016 from the date of utilisation of post.
9.	(Per.) CMD TANGEDCO Pro.No.156, (Adm.Br.) Dt.09.07.2015.	CE/ Projects	Cl.II-Tech.	AEE/ Elecl.	1	Creation of one post of AEE/ Elecl. in the O/o SE/ Mechl. Projects, Chennai under the control of the CE/ Projects, Chennai.	For a period of one year from the date of utilisation of post.
10.	(Per.) CMD TANGEDCO Pro.No.148,(S.B.) Dt.14.07.2015.	TANGEDCO Dispensaries	Cl.I-Adm.	Chief Medical Officer	5	Upgradation of 5 posts of Medical Officer as Chief Medical Officer in TANGEDCO Dispensaries.	For a period upto 29.02.2016 from the date of utilisation of posts.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
11.	(Per.) CMD TANGEDCO Pro.No.157, (Adm.Br.) Dt.22.07.2015	Coimbatore EDC/ North	Cl.II-Tech. Cl.III-Pro. Cl.III-RWE  Cl.IV-RWE	AE/JE/EI. I Gr. JE/EI. II Gr. F.M. I Grade Line Inspector Wireman FA/ Mazdoor	1 4 1 2 1 2  11	Sanction of posts to the newly formed 110/22 KV (NG) SS at Ellapalayam in Coimbatore EDC/ North.	For a period of one year from the date of utilisation of posts.
12.	(Per.) CMD TANGEDCO Pro.No.158, (Adm.Br.) Dt.22.07.2015	Tiruppur EDC	Cl.II-Tech. Cl.III-Pro. Cl.III-RWE  Cl.IV-RWE	AE/JE/EI. I Gr. JE/EI. II Gr. F.M. I Grade Line Inspector Wireman FA/ Mazdoor	1 4 1 2 1 2  11	Sanction of posts to the newly formed 110/22-11 KV (NG) SS at Pasur in Tiruppur EDC.	For a period of one year from the date of utilisation of posts.
13.	(Per.) CMD TANGEDCO Pro.No.159, (Adm. Br.) Dt.22.07.2015	Dharmapuri EDC	Cl.III-RWE  Cl.IV-RWE	Line Inspector Wireman Field Assistant	4 2 2  8	Sanction of posts to the 33/11 KV (Out door) SS at V.Muthampatty in Dharmapuri EDC.	For a period of one year from the date of utilisation of posts.
14.	(Per.) CMD TANGEDCO Pro.No.160, (Adm. Br.) Dt.23.07.2015	CE/ IT, Chennai	Cl.II-Tech. Cl.III-RWE	AE/ Elecl. TA/ Elecl.	1 1	Creation of one post of AE/ Elecl. and one post of TA/ El. in the O/o SE/ Computer Centre under the control of the CE/ IT, Chennai.	For a period of one year from the date of utilisation of posts.
15.	(Per.) CMD TANGEDCO Pro.No.161, (Adm. Br.) Dt.28.07.2015	Concerned O&M Distribution Circles.	Cl.III-RWE	Spl.Gr. FM Driver Heavy Vehicle Driver	6 6	Creation of 6 posts of Spl. Gr. FM Driver and 6 posts of Heavy Vehicle Driver to the newly formed by bifurcating the existing O&M Distribution Circles.	For a period of one year from the date of utilisation of posts.



(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
16.	(Per.) CMD TANGEDCO Pro.No.163, (Adm. Br.) Dt.28.07.2015.	Thanjavur EDC	Cl.II-Tech. Cl.III-Pro. Cl.III-RWE  Cl.IV-RWE	AE/JE/EI. I Gr. JE/EI. II Gr. F.M. I Grade Line Inspector Wireman FA/ Mazdoor	1 4 1 2 1 2 <hr/> 11	Creation of posts to the upgraded 110/33/11 KV Nadium (NG) SS in Thanjavur EDC.	For a period of one year from the date of utilisation of posts.
17.	(Per.) CMD TANGEDCO Pro.No.164, (Adm. Br.) Dt.31.07.2015	Mettur EDC	Cl.II-Tech. Cl.III-Pro. Cl.III-RWE  Cl.IV-RWE	AE/JE/EI. I Gr. JE/EI. II Gr. F.M. I Grade Line Inspector Wireman FA/ Mazdoor	1 4 1 2 1 2 <hr/> 11	Creation of posts to the 110/22 KV (NG) SS at Thoppur in Mettur EDC.	For a period of one year from the date of utilisation of posts.

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**STATEMENT-B**  
**STATEMENT SHOWING THE DETAILS OF POSTS ABOLISHED DURING THE MONTH OF JULY 2015.**

Sl. No.	Reference in which the posts were abolished	Name of the Circle	Class / Cadre	Name of the Post	No. of Post	Purpose	Period
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	(Per.) CMD TANGEDCO Pro.No.133, (S.B.) Dt.01.07.2015.	CE/ Grid Operation, Chennai	Cl.I-Tech.	EE/ Eled.	1	Due to creation of one post of SE/ Eled. and one post of AEE/ Eled., abolition of one post of EE/ Eled in the O/o CE/ Grid Operation/ Chennai.	With immediate effect.
2.	(Per.) CMD TANGEDCO Pro.No.147, (Adm.Br.) Dt. 02.07.2015	Chengalpattu EDC	Cl.III-RWE Cl.IV-RWE	Line Inspector Wireman Field Asst.	4 2 2 8	Abolition of posts due to upgradation of the existing 33/11 KV SS into 110/ 33-11 KV (NG) SS at Madurantha -gam in Chengalpattu EDC.	With immediate effect.
3.	(Per.) CMD TANGEDCO Pro.No.142,(S.B.) Dt.07.07.2015.	Sectt. Branch	Cl.I-Adm.	Dy. Director of Sports.	1	Upgradation of one post of Dy. Director of Sports as Senior Deputy Director of Sports in Sectt. Branch.	With immediate effect.
4.	(Per.) CMD TANGEDCO Pro.No.148, (S.B.) Dt.14.07.2015.	TANGEDCO Dispensaries	Cl.II-Adm.	Medical Officer	5	Upgradation of 5 posts of Medical Officer as Chief Medical Officer in TANGEDCO Dispensaries.	With immediate effect.
5.	(Per.) CMD TANGEDCO Pro.No.161, (Adm. Br.) Dt.28.07.2015	Concerned O&M Distribution Circles.	Cl.III-RWE	Sr. Gr. Driver Driver	13 9 22	Abolition of 13 posts of Sr. Grade Driver and 9 posts of Driver due to creation of 6 posts of Spl. Gr. FM Driver and 6 posts of Heavy Vehicle Driver to the newly formed by bifurcating the existing O&M Distribution Circles.	With immediate effect.

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Chief Engineer/Personnel

# GENERAL ADMN. & SERVICES

## PART – II

Pension - Sanction of further instalments of Dearness Allowance to the Exgratia beneficiaries of TANGEDCO - Orders - Issued.

(Secretariat Branch)

(Per.) CMD TANGEDCO Proceedings No.147

Dated the 13<sup>th</sup> July 2015.

Aani 28, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:-

1. (Per) FB TANGEDCO Proceedings No. 253, (SB)  
Dt. 18.09.2014.
2. G.O.Ms.No.171, Finance (Pension) Dept., Dt. 10.06.2015.

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### PROCEEDINGS:

The Government of Tamil Nadu, in its G.O. second read above, have issued orders sanctioning Dearness Allowance to the Exgratia beneficiaries with effect from 01.01.2014 to 01.01.2015. In the Proceedings first read above, among other things, orders have been issued sanctioning Dearness Allowance at the rate of 175% to the Contributory Provident Fund/Non-pensionable establishment beneficiaries of TANGEDCO who are in receipt of Exgratia payment of Rs. 645/- per month plus Dearness Exgratia with effect from 04.06.2013. Hence, the need for extension of the benefit of enhancement of the rates of Dearness Allowance to the Exgratia beneficiaries of TANGEDCO on par with the Exgratia beneficiaries of Government of Tamil Nadu with effect from 01.01.2014 to 01.01.2015, has been examined. After careful consideration, it has been decided to accept the same.

2. Accordingly, it is hereby ordered that the rates of Dearness Allowance to the Exgratia beneficiaries of TANGEDCO, be sanctioned with effect from 01.01.2014 to 01.01.2015, at the rates mentioned below:-

Date from which payable	Revised rate of Dearness Allowance (Per month)
1 <sup>st</sup> January, 2014	192%
1 <sup>st</sup> July, 2014	204%
1 <sup>st</sup> January, 2015	215%

3. The Exgratia beneficiaries of TANGEDCO are entitled for the arrears of Dearness Allowance at the rates ordered in para - 2 above with effect from 01.01.2014 and the payment shall be made immediately.

(By Order of the Chairman - cum - Managing Director)

R. Krishnan,  
Secretary (A/c).

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Memorandum No.42280 / A3 / A31 / 2015-1, (BOSB) Dated: 13 -07-2015.

Sub : TANGEDCO – Minsara Pirivu Anna Thozhir Sangam – Deduction of Union Subscription from the salary of their willing Members – Extension of time - Granted.

- Ref : 1) (Per) B.P. (Ch) No.111 (SB) Dated : 9.5.2007.  
2) Minsara Pirivu Anna Thozhir Sangam Letter dated 6.7.2015.

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In the Board's Proceedings first cited, detailed guidelines were issued for deduction of Annual Union Subscription and Donation from the salary of the willing employees. In the standard Terms and conditions annexed to the Board's Proceedings, it has been ordered that subscription shall be deducted from the Pay bill for May payable in June and donation shall be deducted from the pay bill for November payable in December, every year.

2. The Minsara Pirivu Anna Thozhir Sangam has represented for extension of time to deduct the Union subscription from the willing Members of the Union.

3. The request has been examined and accepted. Accordingly, it is hereby ordered to extend the time limit and the request for deduction of Union Subscription from the fresh willing Members of the Minsara Pirivu Anna Thozhir Sangam may be accepted upto 31<sup>st</sup> July 2015 and subscription may be deducted from the pay for the month of August 2015 payable in September 2015 as a special case.

(By Order of the Chairman - cum - Managing Director)

R. Krishnan,  
Secretary (A/c).

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Memo. (Per) No.39268/A22/A222/2014-1, (BOSB) dated: 16.07.2015.

Sub : Establishment – TANGEDCO – Diversion of one post of Stores Controller from the Office of Superintending Engineer/General Construction Circle-II/Chennai to the Office of Chief Financial Controller/TANTRANSCO – Orders - Issued.

- Ref : i) Memo. (Per) No.109334/387/G.36/G.361/2012-10, dated 31.07.2013.  
ii) From the Chief Financial Controller/TANTRANSCO, Chennai U.O. No.CFC/TANTRANSCO/F.Stores/ D.1850/14, dated 01.08.2014.  
iii) From the Chief Financial Controller/General/TANGEDCO, Chennai-2 U.O. No.CFC/FC/P.1/S.C/F.Estt/D.204/2015, dated 06.05.2015.

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Sanction is hereby accorded for diversion of the post of Stores Controller in the Office of the Superintending Engineer/General Construction Circle-II/ Chennai last continued in the Memorandum first cited to the Office of the Chief Financial Controller/ TANTRANSCO, exclusively to look after the stock verification works of TANTRANSCO.

2. The incumbent of the post ordered in para-1 above will be eligible to draw the usual pay, Grade Pay, Dearness Allowance, House Rent Allowance, City Compensatory Allowance and other allowances at the rates admissible under the orders in force wherever applicable.

3. The expenditure is debitable to "TANGEDCO Funds – Revenue Expenses – 75 – Employees costs 75.1 – Salaries–75.110 – Salaries Provincial".

(By Order of the Chairman - cum - Managing Director)

R. Krishnan,  
Secretary (A/c).

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Establishment - TANGEDCO – Thiru P. Muthiah, Deputy Director/Public Relations/Tamil Development and Information Department on deputation as Deputy Director/Information and Public Relations/TANGEDCO Posted as Resident Manager/New Delhi - Orders - Amendment - Issued.

(Secretariat Branch)

(Rt.) CMD TANGEDCO Proceedings No.46      Dated the 17<sup>th</sup> July 2015.  
Aadi 1, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:-

- i) (Per) CMD TANGEDCO Proceedings No.20 (SB) dated 23.01.2014.
- ii) G.O. (Rt.) No.108 Tamil Development and Information (Administration) Department, dated 19.06.2014.
- iii) (Rt.) CMD Proceedings NO. 42 (SB) dated 25.06.2014.
- iv) From Thiru P. Muthiah, Deputy Director/Information and Public Relations letter dated 23.04.2015.
- v) (Rt.) CMD TANGEDCO Proceedings No. 16 (SB) dated 23.04.2015.

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**PROCEEDINGS:**

The following amendment is made to the orders issued in para.2 of the Proceedings fifth read above:

"2.Thiru P. Muthiah, Deputy Director/Information and Public Relations/TANGEDCO is posted as Resident Manager/TNEB Limited/Guest House/New Delhi in the place of Thiru V.K. Jain, Officer on Special Duty in the office of Resident Manager/New Delhi w.e.f. 10.05.2015 F.N."

(By Order of the Chairman - cum - Managing Director)

R.Krishnan,  
Secretary (A/c)

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Establishment - TANGEDCO – Thiru A. Mathimaran, Deputy Director/Tamil Development and Information - On deputation as Deputy Director/Information and Public Relations/TANGEDCO - Appointment - Orders - Issued.

(Secretariat Branch)

(Rt.) CMD TANGEDCO Proceedings No.47      Dated the 17<sup>th</sup> July 2015.  
Aadi 1, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:-

- i) அரசாணை (வாலாயம்) எண்.113 தமிழ்வுளர்ச்சி (ம) செய்தி (நிர்வாகம்.1) த்துறை நாள் 06.07.2015.
- ii) From Thiru A. Mathimaran, Deputy Director, Department of Tamil Development & Information, letter dated 8.7.2015.

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**PROCEEDINGS:**

In pursuance of the Government Orders read above, Thiru A. Mathimaran, Deputy Director, Tamil Development and Information Department, is hereby appointed as Deputy Director/Information and Public Relations/TANGEDCO on deputation basis with effect from 8.7.2015 F.N.

(By Order of the Chairman - cum - Managing Director)

R.Krishnan,  
Secretary (A/c)

\* \* \*

குறிப்பாணை (நிரந்தரம்) எண்.39913/அ18/அ181/2015-1 , (செ.கிளை) நாள் : 17-07-2015.

பொருள் : அலுவலக நடைமுறை - கோப்புகளை முழுமையாக கூர்ந்தாய்வு செய்து தேவைப்படும் விவரங்கள் முதல் முறையிலேயே கோரப்பட வேண்டும் - அறிவுறுத்தல்கள் - வெளியிடப்படுகின்றன.

பார்வை : அரசு முதன்மைச் செயலாளர்/பணியாளர் மற்றும் நிர்வாக சீர்திருத்தத் (ஏ) துறை. கடித எண்.20506/ஏ2/15-1, நாள் 05.06.2015.

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அரசுப் பணியாளர்களின் கோரிக்கைகள் மற்றும் பணிசார்ந்த கருத்துருக்களை பரிசீலிக்கும்போது சம்பந்தப்பட்ட நிர்வாகத் துறைகள் சரியாக கூர்ந்தாய்வு செய்யாமல். பலமுறை விவரங்கள் கோருவதை தவிர்த்திடும் பொருட்டு சில அறிவுறுத்தல்களை பார்வையில் கண்ட கடிதம் வாயிலாக தமிழக அரசு வெளியிட்டுள்ளது. அதனை தமிழ்நாடு மின் உற்பத்தி மற்றும் பகிர்மானக் கழகத்திலும் பின்பற்றிட முடிவெடுக்கப்பட்டுள்ளது.

2. அதன்படி, தமிழ்நாடு மின் உற்பத்தி மற்றும் பகிர்மானக் கழகத்தின் அலுவலர்கள் மற்றும் பணியாளர்களின் கோரிக்கைகள் மற்றும் பணிசார்ந்த அதாவது கடவுச்சீட்டு பெற / அயல்நாடு செல்ல தடையின்மைச் சான்று பெறுவது. ஊதிய முரண்பாடுகளைக் களைவது, உயர்கல்வி பெற அனுமதி கோருவது. பணிவரன்முறை மற்றும் தகுதிகாண் பருவம் போன்ற கருத்துருக்கள் தொடர்பாக அளிக்கப்படும் விண்ணப்பங்களை கூர்ந்தாய்வு செய்யும் போது, தேவைப்படும் விவரங்கள் அனைத்தும் முதல் முறையிலேயே கோரப்படவேண்டும். கூடுதல் விவரங்கள் தேவைப்படின், சம்பந்தப்பட்ட அலுவலகத்தின் இரண்டாம் நிலை அலுவலர்கள் நிலையில் (உதாரணத்திற்கு மின்பகிர்மான வட்டத்தின் மேற்பார்வைப் பொறியாளர் அலுவலகம் எனில் அவ்வலுவலகத்தின் நிர்வாக அலுவலர்) விவாதிக்கப்பட்டு, முடிவுகள் விரைவாக எடுக்கப்பட்டு பணியாளர்களுக்கு உரிய பதிலினை விரைவாக அளித்திட வேண்டுமென்று அனைத்து தலைமைப் பொறியாளர்கள், மேற்பார்வைப் பொறியாளர்கள் மற்றும் தகுதி வாய்ந்த அலுவலர்கள் அனைவரும் அறிவுறுத்தப்படுகிறார்கள்.

இரா. கிருஷ்ணன்,  
செயலர் (கூடுதல் பொறுப்பு).

\* \* \*

Letter No.28057/A18/A182/2015-1, (BOSB) Dated 20.07.2015.

Sub : Establishment - TANGEDCO - Sanction of Maternity Leave to Married Women Employees - Consolidated Guidelines issued by the Government - Communicated.

- Ref : 1) (P) FB TANGEDCO Proc.No.20 (SB) Dt. 2.8.2011.  
 2) (P) FB TANGEDCO Proc.No.9 (SB) Dt. 23.1.2014.  
 3) From P&AR (FR.III) Dept, Letter (Ms) No. 13965/Fr.3/2015, dated: 20.4.2015.

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In continuation to the proceedings first and second cited, I am to enclose herewith the consolidated guidelines issued by the Government in respect of the above subject matter for strict adherence.

Copy to

R. Krishnan,  
 Secretary (A/c.)

**Personnel and Administrative Reforms (FR-III) Department, Secretariat, Chennai - 600 009.**

**Government Letter (Ms) No. 13965/FR-3/2015, dated 20.04.2015.**

Sub : Rules - Sanction of Maternity Leave to Married Women Government Servants under Rule 101(a) of Fundamental Rules - Consolidated Guidelines - Issued.

- Ref : 1) G.O. (Ms) No. 237, Personnel and Administrative Reforms (FR-III) Department, dated 29.06.1993.  
 2) G.O. (Ms) No. 51, Personnel and Administrative Reforms (FR-III) Department, dated 16.05.2011.  
 3) G.O. (Ms) No. 138, Personnel and Administrative Reforms (FR-III) Department, dated 19.11.2013.  
 4) Government Letter No. 35660/FR-III/89-7, Personnel and Administrative Reforms (FR-III) Department, dated 01.12.1989.

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Based on the recommendations of the Tamil Nadu Third Pay Commission and on par with Central Government Employees, orders were issued in the Government Order first cited above, to the effect that a Married Women Government Servant with less than two surviving children be allowed Maternity Leave for a period of 90 (Ninety) days, from the date of commencement and leave not exceeding six weeks, for miscarriage.

2. In the Government Order second cited, the above Maternity Leave has been enhanced to 180 days, and the relevant Rule provisions i.e. Rule 101(a) of the Fundamental Rule has been amended to the above effect in the Government order third cited.

3. As repeated clarifications from various Government Departments are being received in this Department, the following **consolidated guidelines** are issued with regard to **'Maternity Leave' on full pay** to Married Women Government Servants in accordance with Rule 101(a) of the Fundamental Rule:-

**I-MATERNITY:-**

(i) Permanent Married Women Government Servants i.e. **approved probationers**, in a service, **with less than two surviving children**, excluding adopted children, may be granted **180 days (6 months)** Maternity Leave by the competent

authority, which may be availed between pre-confinement rest to post-confinement recuperation, at the option of the Government Servant.

(ii) Non-permanent Married Women Government Servants i.e. **probationers**, in a service with less than two surviving children, excluding adopted children, whether appointed under regular capacity through Tamil Nadu Public Service Commission/Uniform Services Recruitment Board/Teachers Recruitment Board/Medical Services Recruitment Board, Employment Exchange, etc., or under emergency provisions of the relevant service rules **should take, for maternity purpose, the Earned Leave at her credit. Maternity Leave may be granted for a period of not exceeding 180 days or for the period that falls short of 180 days,** after availing the Earned Leave, as the case may be.

(iii) Non-permanent Married Women Government Servants, **employed under the emergency provisions i.e. temporarily, should have completed one year of continuous service,** including leave periods, if any, **to become eligible for grant of Maternity Leave of 180 days as above.**

## **II-ABORTION:-**

(iv) Competent Authority may grant **maternity leave on average pay** to Permanent Married Women Government Servants i.e. **approved probationers** in cases of **abortion** also for a period, which may extend to **six weeks.**

(v) A non-permanent Married Women Government Servant i.e. **probationers** whether appointed in a regular capacity through Tamil Nadu Public Service Commission/Uniform Services Recruitment Board/Teachers Recruitment Board/Medical Services Recruitment Board, Employment Exchange, etc., or under the emergency provisions of the relevant service rules, should take, in such cases, **ordinary leave on average pay for which she may be eligible. If, however, such a Government servant is not eligible for any leave on average pay, or if the leave to her credit is less than six weeks, maternity leave may be granted for a period not exceeding six weeks or for the period that falls short of six weeks as the case may be.**

(vi) Non-permanent Married Women Government servants employed under the **emergency provisions i.e. temporarily, should have completed one year of continuous service,** including leave periods, if any, **to become eligible for** the grant of **maternity leave of six weeks,** as above.

4. The grant of leave is also subject to the following further conditions:-

(i) **Unless, an abortion takes place in a Government hospital or Local fund or Municipal hospital or in a recognised Nursing Home** and the respective medical officer-in-charge of the institutions certifies that the abortion took place **after 12 weeks of pregnancy,** the **leave should not be granted.**

(ii) Where there are no hospital facilities, women Government servants should appear before the authorised medical attendant when the sign of abortion still exists or go to him for antenatal examination after 12 weeks of pregnancy, so that the authorised medical attendant may be in a position to issue the necessary certificate.

(iii) In the case of **Married Women Police Personnel, Leave may be granted for 'spontaneous abortion' from the seventh week of pregnancy.** The term "Spontaneous abortion" refers to the loss of a non-viable foetus during pregnancy in naturally occurring events, not elective or due to therapeutic abortion procedures.



(iv) In the case of maternity leave **for miscarriage or abortion**, the **certificate from a Registered Medical Practitioner** authorised under the Medical Termination of Pregnancy Act, 1971 (Central Act.34 of 1971) **may be accepted**.

### **III- MEDICAL TERMINATION OF PREGRENCY:-**

(v) A Competent Authority may grant maternity leave of not exceeding **six weeks** to Permanent Married Women Government servants, i.e. **Approved Probationers** who undergo **medical termination of pregnancy of 12 weeks** or more but **not exceeding 20 weeks** under the Medical Termination of Pregnancy Act, 1971 (Central Act 34 of 1971).

(vi) A Non-Permanent Married women Government Servant i.e. **Probationers in a service** whether appointed in a regular capacity or under the emergency provisions of the relevant service rules through Tamil Nadu Public Service Commission/Uniform Services Recruitment Board/Teachers Recruitment Board/Medical Services Recruitment Board, Employment Exchange etc., who undergoes medical termination of **pregnancy of 12 weeks** or more but **not exceeding 20 weeks** under the Medical Termination of Pregnancy Act, 1971 (Central Act 34 of 1971) **should take earned leave** for which she is eligible. If, however, such a Government servant is **not eligible for any earned leave or if the leave to her credit is less than six weeks**, then the **competent authority may grant maternity leave** for a period of **not exceeding six weeks or for the period which falls short of six weeks**, as the case may be.

(vii) Non-Permanent Married Women Government Servants employed under the emergency provisions i.e. **temporarily**, should have completed one year for continuous service, including leave periods, if any, to become eligible for the grant of Maternity Leave as above.

(viii) The grant of maternity leave for six weeks is subject to the conditions that the termination of pregnancy shall be performed at Government Hospitals or other institutions approved under the Medical Termination of Pregnancy Act, 1971 (Central Act 34 of 1971).

(ix) **Maternity Leave not exceeding six weeks for miscarriage**, including natural abortion or medical termination of Pregnancy under the medical termination of Pregnancy Act, 1971 (Central Act 30 of 1971) **shall be granted to a women Government Servant, irrespective of number of surviving children, on production of medical certificate.**

(x) **Leave of any kind** due and admissible under the rules may be granted **upto a maximum period of one year, in continuation of maternity leave, if leave applied for is supported by a medical certificate.**

(xi) Leave of any other kind in continuation of maternity leave may also be granted in case of illness of a newly born baby, subject to the female Government servant producing a medical certificate from the authorised medical attendant to the effect that the condition of the ailing baby warrants mother's personal attention and her presence by the baby's side is absolutely necessary.

### **IV-Still Born:**

(xii) Married Women Government Servants who delivers a **'Still Born' child** (dead at Birth) is also eligible for **Maternity Leave of 90 (Ninety) days.**

(xiii) All Heads of Departments and other Competent Authorities may grant Maternity Leave to Women Government Servants, under their control.

5. The competent authorities in the Government Departments are directed to follow the above consolidated guidelines scrupulously, at the time of sanction of Maternity Leave to Married Women Government Servants.

Yours faithfully,  
**Anita Praveen,**  
 for Principal Secretary to Government  
 (Training)

\* \* \*

Memo. No.103235/886/G56/G.562/2015-1, (Adm.Br.) Dated: 23.07.2015.

Sub : ESTABLISHMENT - Tamil Nadu Generation and Distribution Corporation employees Family Security Fund Scheme - Granting of total lump sum payment of Rs.1,50,000/- (Rupees One lakh and fifty thousand only) to the Legal heir of Part time Conservancy workers - who expired while in service - Clarification sought for - Regarding.

- Ref : 1) (Per) B.P. (FB) TANGEDCO Proceedings No.49 (Sectt.Branch) dated 11.10.2006.  
 2) (Per) B.P. (FB) TANGEDCO Proceeding No.11 dated 02.08.2011.  
 3) This Office Memorandum No. 055654/163/G.56/G.562/2003-07, dated 04.02.2013.  
 4) (Per) (FB) TANGEDCO Proceeding No.2, dated 23.01.2014.

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In the Board's Proceeding Second cited, it has been ordered to create 3316 and 2330 number of posts of Part Time Conservancy workers with retrospective effect from 04.04.2003 and 15.10.2005 respectively under regular time scale of pay at Rs. 600-10-700-20-1100 with D.A. with retrospective effect from 04.04.2003 or any other subsequent date shall be fixed as per eligibility/entitlement and arrears shall be paid to them.

2. In the letter under reference (3) cited, while issuing of certain clarification and guidelines in respect of Part time Conservancy workers it has been instructed to recover a sum of Rs. 75/- (50+25) towards subscription of Family Security Fund Scheme (FSFS) and to settle the amount at the time of their retirement.

3. In the B.P. under reference (4) cited, the scale of pay to the Part time Conservancy workers has also modified as Rs. 1300-3000+300 Grade pay with notional effect from 01.12.2011 and monetary effect from 09.01.2014.

4. Certain Superintending Engineer's have sought for clarification for settlement of FSFS lumpsum to the legal heir of Part Time Conservancy Workers who died while in service, since the recovery of subscription of Family Security Fund Scheme has already been effected.

5. Hence, it is hereby clarified that lumpsum grant of Rs. 1,50,000/- (Rupees One lakh and fifty thousand only) towards Family Security Fund Scheme may be

sanctioned and paid to the legal heir of Part time Conservancy Workers who expired while in service as per the guidelines issued in the Memorandum under reference (3) cited.

A. Manivannan,  
Chief Engineer/Personnel. (A/c).

\* \* \*

Allowance – Gas Turbine Schemes – Revision of Special (Gas Turbine Schemes) Allowance to the employees/ officers working in Thirumakottai, Kuttalam and Valuthur Gas Turbine Power Stations - Orders –Issued.

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(Secretariat Branch)

(Per) FB TANGEDCO Proceedings No.22, Dated the 25<sup>th</sup> July 2015.  
Aadi -9, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:-

- 1) (Per) B.P. (Ch) No.112, (SB) dt. 10.5.2007.
- 2) (Per) B.P. (Ch) No.108, (SB) dt. 20.6.2008.
- 3) (Per) B.P. (Ch) No.223 (SB) dt.21-11-2009.
- 4) (Per) B.P. (Ch) No.224 (SB) dt.21-11-2009.
- 5) Minutes of the 57<sup>th</sup> Board Meeting of TANGEDCO held on 17.7.2015.

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**PROCEEDINGS:**

In the Board's Proceedings first cited, orders have been issued for payment of Special (Gas Turbine Schemes) Allowance at flat rate basis to the employees/officers of Thirumakottai (K) Gas Turbine Power Station.

2) Subsequently, in the Board's Proceedings second cited, orders have been issued for payment of Special (Gas Turbine Schemes) Allowance at flat rate basis to the employees/officers of Valuthur Gas Turbine Power Station and Kuttalam Gas Turbine Power Station .

3) The Chief Engineer/Gas Turbine Schemes/Chennai had sent a proposal for revision of Special (Gas Turbine Schemes) Allowance to the employees/officers of the Valuthur Gas Turbine Power Station, Kuttalam Gas Turbine Power Station and Thirumakottai (K) Gas Turbine Power Station, stating that the above stations are located in remote places, where there is no residential quarters and thereby much difficulties are caused to the Operation and Maintenance Personnel to reach the station, in case of emergency during night hours due to lack of transport facilities. The proposal was examined in detail.

4) At the time of Revision of wages ordered with effect from 1-12-2007, the Revision of Allowances/Special Pay was given effect to from 1-9-2009 to the employees / Officers as in the reference third and fourth cited, the Special Gas Allowance has not been revised since it was newly implemented to the Gas Stations during 2007-2008 only.

5) After careful consideration, the TANGEDCO hereby orders that the existing Special (Gas Turbine Schemes) Allowance be doubled at the flat rate as in the Annexure to the employees/ officers of the Valuthur Gas Turbine Power Station, Kuttalam Gas

Turbine Power Station and Thirumakkottai (K) Gas Turbine Power Station .

6) The payment of Special (Gas Turbine Schemes) Allowance ordered in para-5 above shall take effect from the date of issue of this order.

7) The expenditure sanctioned in para-3 above is debitable to "Tamil Nadu Electricity Board Funds" – Revenue Expenses – 75.410 Employees cost – Other Allowance - Special (Gas Turbine Schemes) Allowance.

(By Order of the Board)

R.Krishnan,  
Secretary (A/c)

ANNEXURE

SPECIAL (GAS TURBINE SCHEMES) ALLOWANCE

Existing Pay Range (Rs.)	Revised Pay Range (Pay + GP) (Proposed) (Rs.)	Existing Special (G.T.S.) Allowance (Rs.)	Revised Special (G.T.S.) Allowance (Doubled) (Rs.)
Upto 3,500	Upto 7649	320	640
3,501-4,000	7650-9399	370	740
4,001-4,500	9400-10699	420	840
4,501-5,000	10700-11999	470	940
5,001-5,500	12000-13299	520	1,040
5,501-6,000	13300-14599	580	1,160
6,001-7,000	14600-15899	640	1,280
7,001-8,000	15900-17399	740	1,480
8,001-9,000	17400-19199	840	1,680
9,001-10,000	19200-21699	940	1,880
10,001-11,000	21700-25599	1,040	2080
11,001-12,000	25600-29799	1,150	2300
12,001-13,000	29800 -34000	1,260	2520
13,001 and above	34000 and above	1,370	2740

NOTE: In cases where the revised rate of Allowance falls short of double the rate in the existing quantum of Allowance due to revised Pay Ranges, in such cases the quantum of Allowance shall be actually doubled.

// TRUE COPY //

\* \* \*

Establishment - Class III Service - Junior Assistant (Adm) and Junior Assistant (Accounts) Appointment on Compassionate ground/Land Acquisition- Educational Qualification prescribed for appointment - "Pass in a degree with first Class " modified as "Pass in a degree" - Approved.

(Administrative Branch)

(Per) FB TANGEDCO Proceedings No.4,

Dated the 27<sup>th</sup> July 2015.  
Aadi -11, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:-

- 1) (Per) B.P. (FB) No.1, (Adm.Br.) dt. 28.01.1997.
- 2) G.O. (Ms.) No.42 (Labour and employment Department) dated 12.03.2007.
- 3) (Per.) B.P. (FB) No.25 (Adm.Br) Dt. 21.06.2007.
- 4) (Per) B.P. (FB) No.25 (SB) dt.24-05-2014.
- 5) Item No.23 of the Minutes of the 57<sup>th</sup> Board Meeting of TANGEDCO held on 17.07.2015.

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### **PROCEEDINGS:**

Orders were issued that the persons who are qualified in professional degree courses/other non-professional degree courses or diploma courses and possess I<sup>st</sup> class are to be considered for respective posts to which they are qualified (i.e) Assistant Engineer/Junior Assistant/Technical Assistant etc. vide reference 1<sup>st</sup> cited. And in reference (2)<sup>nd</sup> cited, Government had issued guidelines that compassionate ground appointments shall be made to the post in 'C' and 'D' Groups only. Based on the above guidelines, orders were issued vide reference (3)<sup>rd</sup> cited above that the person who possess first class Degree in Bachelor of Engineering and seeking appointment under compassionate ground are to be selected as Technical Assistant instead of Assistant Engineer.

2) The individual who possess 1<sup>st</sup> class in Degree alone are selected for respective post (Junior Assistant (Adm./Accts.) for considering appointment under compassionate Ground/Land Acquisition, and if he/she does not possess 1<sup>st</sup> class then he/she would be considered for the post of Assessor Gr. II (Trainee) only and cannot be considered for Junior Assistant (Adm./Accts.) at any point of time after their joining. Therefore, the post of JA (Adm.Accts.) could not be filled up and hence the total numbers of vacancies in the said posts are rapidly increasing every year and the administrative works are held up and could not be completed in time for want of hands at all levels in TANGEDCO.

3) Further, the Board has issued amendment to Regulation 94 of Tamil Nadu Electricity Board Regulations with reference to (Per) BP (FB) No. 25 (Sectt.Branch) dt. 24.5.2014 that the appointment to the post of Junior Assistant (Adm./Accts) by way of direct recruitment/internal selection can be considered only from those who possess a pass in B.A., B.Sc., B.Com., or any degree obtained from any University instead of a pass in 10<sup>th</sup> Std.

4) In order to follow up the uniform procedure considering the above, the matter has been placed before the Board to modify the Educational Qualification from "pass in any Degree in I Class" to "pass in any degree". for compassionate/Land Acquisition appointment to the post of Junior Assistant (Adm.) & Junior Assistant (Accounts).

5) The Board has approved the proposal that the qualification for appointment on compassionate ground for the post of Junior Assistant (Adm./Accts.), that **"pass in a degree with first class" is modified as "pass in a degree"**.

(By Order of the Board)

A. Manivannan,  
Chief Engineer/Personnel. (A/c).

\* \* \*

Letter. No.45257/A18/A182/2015-1, (BOSB) Dated : 27-07-2015.

Sub : Establishment - TANGEDCO - HRD - Exam Cell - Departmental Tests November, 2015 - Certain instructions - Issued.

Ref : (Per) CMD TANGEDCO Proceeding No.130 dt:30.06.2015.

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In continuation to the orders issued in the reference cited, I am to enclose herewith the list of examination fee collection centers along with the Account Code for the aforesaid purpose.

2. I am also to request you to collect the examination fees of Rs. 100/- (Rupees One Hundred only) **by way of cash** and send a weekly report to the General Manager, Human Resources Development, Chennai, without fail.

R.Krishnan,  
Secretary (A/c)

### List of Collection Centers

Sl.No	Name of the Circle	Sl.No	Name of the Circle	Sl.No	Name of the Circle
1.	CHENNAI/SOUTH	29.	SIVAGANGA	56.	WE/TIRUNELVELI
2.	CHENGALPET	30.	RAMNAD	57.	WE/UDUMALPET
3.	KANCHEEPURAM	31.	DINDIGUL	58.	KOVILKALAPPAL GTPS
4.	CHENNAI/NORTH	32.	MADURAI/METRO	59.	BBGTPS
5.	CHENNAI/CENTRAL	33.	TRICHY/NORTH	60.	GTPP/RAMNAD
6.	CHENNAI/WEST	34.	TRICHY/METRO	61.	GTPP/KUTTALAM
7.	CHENNAI DEV. CIRCLE	35.	KARUR	62.	METTUR WORK SHOP
8.	VELLORE	36.	PUDUKOTTAI	63.	FUNDS/HEAD QUARTERS
9.	THIRUPATHUR	37.	THANJAVUR	64.	SE/O/KORATTUR
10.	DHARMAPURI	38.	NAGAI	65.	SE/O/SRIPERUMPUDUR
11.	KRISHNAGIRI	39.	THIRUVARUR	66.	SE/O/TRICHY
12.	SALEM	40.	VILLUPURAM	67.	SE/O/MADURAI
13.	METTUR	41.	CUDDALORE	68.	SE/O/COIMBATORE
14.	ERODE	42.	THIRUVANNAMALAI	69.	SE/O/TIRUNELVELI
15.	GOBI	43.	KALLAKURICHI	70.	SE/O/VILLUPURAM
16.	NAMAKKAL	44.	GEN.KUNDAH	71.	SE/O/SALEM
17.	COIMBATORE/NORTH	45.	GEN/KADAMPARAI	72.	SE/O/THIRUVALLAM
18.	COIMBATORE/SOUTH	46.	GEN/TIRUNELVELI	73.	SE/GCC/TRICHY
19.	COIMBATORE/METRO	47.	GEN/ERODE	74.	SE/GCC/MADURAI
20.	NILGIRIS	48.	ETPS	75.	SE/GCC/COIMBATORE
21.	UDUMALPET	49.	NCTPS	76.	SE/GCC/CHENNAI
22.	TIRUPPUR	50.	NCTPS STAGE II	77.	SE/GCC/SALEM
23.	KANYAKUMARI	51.	MTPS	78.	SE/WEDC/TIRUNELVELI
24.	TIRUNELVELI	52.	MTPS STAGE II	79.	SE/WEDC/UDUMALPET
25.	TUTICORIN	53.	TTPS	80.	SE/P&C/MADURAI
26.	VIRUDHUNAGAR	54.	LMHEP	81.	SE/P&C/COIMBATORE
27.	MADURAI	55.	CMCI/MADURAI	82.	SE/SLDC/ERODE
28.	THENI				

Description		Account Code No.	
Examination fees collected from the candidates for writing the Departmental exams.		62.982	
Account Code No.	Description	Sch.No.	Sch. Item
62.982	Examination fees collected from the candidates for writing the Departmental exams.	5	C

// TRUE COPY //

\* \* \*

Memo. (Per.) No.46583/A3/A31/2015-1, (BOSB) Dated 28.07.2015.

Sub : TANGEDCO – Deduction of Union Subscription from the salary of their willing members – Further extension of time – Granted.

Ref : 1) (Per) B.P. (Ch) No.111 (SB) Dated : 9.5.2007.

2) Memo. No.37839/A3/A31/2015-1, dt.29-6-2015.

3) Memo. No.42280/A3/A31/2015-1, dt.13-7-2015.

4) Memo. No.44491/A3/A31/2015-1, dt.21-7-2015.

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In the Board's Proceedings first cited, detailed guidelines were issued for deduction of Annual Union Subscription and Donation from the salary of the willing employees. In the standard terms and conditions annexed to the Board's Proceedings, it has been ordered that subscription shall be deducted from the Pay bill for May payable in June and donation shall be deducted from the pay bill for November payable in December, every year.

2. In the reference second cited, extension of time was allowed to the Tamil Nadu National Electricity Workers Federation (INTUC Xavier group) upto 15<sup>th</sup> July 2015. In the reference third cited, extension of time for exercising fresh willingness upto 31<sup>st</sup> July 2015 was ordered to Minsara Pirivu Anna Thozhir Sangam. Subsequently, in the reference fourth cited, further extension of time was ordered to the members of Tamil Nadu Electricity Board Workers Progressive Union upto 15<sup>th</sup> August 2015.

3. It has been now represented by the Unions for allowing further extension of time upto 15<sup>th</sup> August 2015. The request has been examined and accepted.

4. Accordingly, it is hereby ordered to permit all the Unions in the scheme of deduction of Union subscription and donation to exercise fresh willingness for the year 2015 as a special case upto 15<sup>th</sup> August 2015. This should not be quoted as precedent in future.

5. All the Chief Engineers/Superintending Engineers and other Officers are, therefore, requested to instruct the Pay Drawing Officers under their control to strictly adhere to the above order and to deduct the Union subscription from the pay bill for August 2015 payable in September 2015 and subsequent subscriptions may be deducted as per reference first cited.

(By Order of the Chairman - cum - Managing Director)

R. Krishnan,  
Secretary (A/c).

\* \* \*

Establishment - Class I Service - Thiru K. Sivaprakasam, Chief Engineer/Electrical -  
Joined duty on return from leave - Posting and Additional Charge arrangement for  
the post of Director (Generation)/TANGEDCO - Orders - Issued.

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(Secretariat Branch)

(Rt.) CMD TANGEDCO Proceedings No.50

Dated the 31<sup>st</sup> July 2015.  
Aadi 15, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

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**PROCEEDINGS:**

Thiru K. Sivaprakasam, Chief Engineer/Electrical (on return from leave), is posted as Chief Engineer/DSM/Chennai vice Thiru. N.S. Prabakaran, Chief Engineer/Electrical, retiring on 31.07.2015 A.N.

2. Thiru K. Sivaprakasam, Chief Engineer/Electrical, is also directed to hold full Additional Charge of the post of Director (Generation)/TANGEDCO vice Thiru N.S. Prabakaran, who is holding the Additional Charge of the post of Director (Generation)/TANGEDCO, retiring on 31.07.2015 A.N.

3. A report regarding the date of joining of the official should be sent to the Tamil Nadu Generation and Distribution Corporation Limited. This will be apart from the Certificate of Transfer of Charge.

(By Order of the Chairman - cum - Managing Director)

R. Krishnan,  
Secretary (A/c).

\* \* \*



# FINANCE

## PART – III

Lr.No.CFC/GL/FC/ACCTS/DFC/BS/AO/IT/F.INST/D.No.60/2015, (Accts.Br.)

dt.08.07.2015.

Sub : TANGEDCO – Income Tax – Filing of Quarterly e-TDS Returns  
– Notices received from Income Tax Department –  
Instructions issued to rectify the errors and compliance report  
called for – Regarding.

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As TANGEDCO/TANTRANSCO has inherited unabsorbed depreciation/business losses from Erstwhile TNEB, it need not pay Income Tax in the near future. Based on this, Tax Exemption Certificate u/s.197 of the Income Tax Act has been filed for income receivable towards Wheeling Charges, Transmission Charges, Rent, Professional Fees, Income from Interest on advance payment to Contractors etc. with Income Tax Department every year and the certificates are furnished to the respective Companies with a request not to deduct TDS on TANGEDCO/ TANTRANSCO's income.

2. While applying for one of those Certificates, it has negated by the Commissioner of Income Tax/TDS for the reason that many notices have been pending with TANGEDCO/TANTRANSCO's various TANs with the penalty amounting to Lakhs of Rupees. As done in previous years, the Nil Deduction Certificate for the Financial Year 2015-16 was applied in April 2015 itself, however, the same could not be obtained as the Income Tax Department refused to process the application for pending clearance of various notices with various TANs.

3. In this regard, the following instructions are issued for strict adherence to rectify the errors in Quarterly Returns and send the compliance report to this Office on or before 31.07.2015.

#### 4. Steps for making corrections in Quarterly Return

Whether notices were received or not, the Drawing and Disbursing Officer may log on into the TRACES Website ([www.tdscpc.gov.in](http://www.tdscpc.gov.in)) and take the following steps.

(a) Go to Defaults menu

(b) View default summary which will give the Financial Year-wise, Quarter-wise default report.

(c) Request for Justification Report for each default

(d) Depending on the nature of default, correction can be done through online/off line

(e) In this regard, e-tutorial notes available in the TRACES website ([contents.tdscpc.gov.in/en/e-tutorial-deductor.html](http://contents.tdscpc.gov.in/en/e-tutorial-deductor.html)) can also be referred for making corrections in the Quarterly Returns.

5. The Superintending Engineer is requested to take this issue as a special task and depute administration staff to correct 24Q Return and accounts staff to correct 26Q (Other than salary).

6. In this regard, the following reports may be sent to this Office within the due

date **17.07.2015**. The year-wise, Quarter-wise defaults and penalty if any may be given in the following format.

Financial Year (a)	Quarter (b)	Penalty for 24Q (c)	Penalty for 26Q (d)	Total pending (c+d) (e)

This report should be sent on or before **17.07.2015** for TAN-wise for creation of data base of defaulters at Head Quarters and follow up.

Action may be taken to rectify the errors in Quarterly Return immediately for all the TANs and action taken may be sent on or before **31.07.2015**.

K. Govindan,  
Chief Financial Controller/General.

\* \* \*

Lr.No.CFC/GL/FC/ACCTS/DFC/BS/AO/IT/F.ITR/D.64/2015, (Accts.Br.) dt.14 .07.2015

Sub : Income Tax – Extension of due date of filing individual return of Income for Assessment Year 2015-2016 – Intimation – Regarding.

Ref : 1) Circular Lr.No.CFC/TANGEDCO/FC/ACCTS/DFC/BS/AAO/IT/F.20B/D.8/2012, Dt.16.04.2012.  
2) CBDT Order F.No.225/154/2015/ITA.II, Dt.10.06.2015.  
3) CBDT Notification No.S.O.1660(E), Dt.22.06.2015.

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All the Superintending Engineers are hereby informed that the Central Board of Direct Taxes, in exercise of powers conferred under section 119 of the Income Tax Act, 1961, extends the due-date for filing of Returns by individual/HUF of Income for the Assessment Year 2015-2016 (Financial Year 2014-2015) from 31<sup>st</sup> July 2015 to 31<sup>st</sup> August 2015 in respect of assesses who are liable to file such returns as per provision of section 139 of Income Tax Act 1961.

A copy of revised ITR Form SAHAJ (ITR-1), ITR-V (Acknowledgement) & ITR-2 is enclosed via e-mail (soft copy) for reference and adherence.

K. Govindan,  
Chief Financial Controller/General.

\* \* \*

TANTRANSCO - Appointment of Secretarial Auditor for carrying out the Secretarial Audit of TANTRANSCO for the Financial Year 2014-2015 in compliance with the Companies Act, 2013-Orders Issued.

(Accounts Branch)

(Per) F.B. (TANTRANSCO) Proceedings No.3 Dated the 22<sup>nd</sup> July 2015.  
Aadi 6, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:-

Item No. 16-Minutes of the 59<sup>th</sup> Meeting of the Board of Directors of TANTRANSCO held on 17.07.2015.

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**PROCEEDINGS:**

The Board of Directors of Tamil Nadu Transmission Corporation Ltd. has approved the proposal to appoint M/s. V.Mahesh & Associates, Company Secretaries as Secretarial Auditor of Tamil Nadu Transmission Corporation Ltd., to conduct Secretarial Audit for the FY 2014-2015 in compliance with the provisions of section 204 (1) of the Companies Act, 2013.

Further it has been approved to give a remuneration of Rs. 20,000/- (Rupees Twenty thousand only) and reimbursement of applicable taxes at actual to M/s. V.Mahesh & Associates for the Secretarial Audit for the FY 2014-2015.

(By Order of the Board)

M. Maheswari Bai,  
Chief Financial Controller/TANTRANSCO.

\* \* \*

Tenders - Delegation of powers to the Chief Engineer/Operation/Chennai, Chief Engineer/P&C/Chennai and Chief Engineer/Transmission projects for maintenance and procurement of IT related equipments, under open tender system - Amendment to Table XII of Tender Regulations, 1991 - Orders issued - Regarding.

(Accounts Branch)

(Per) F.B. TNEB Ltd Proceedings No.3

Dated the 23<sup>rd</sup> July 2015  
Aadi 7, Sri Manmada Varudam,  
Thiruvalluvar Aandu 2046

READ:-

Minutes of the 43<sup>rd</sup> Board meeting of TNEB Ltd held on  
17.07.2015 (Item No.8)

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**PROCEEDINGS:**

The Tamil Nadu Electricity Limited Board after careful consideration hereby orders for incorporation to the Table XII of Tender Regulations 1991 as below:

TABLE - XII

Sl.No.	Description	Authority	Value of Contract	Amendment
13.1 (a)	Floating and awarding of comprehensive maintenance contract for the maintenance of IT related equipments under open tender system.	Regional Chief Engineers & Chief Engineer/ Information Technology	Not exceeding Rs.50 lakhs (per year)	No Change
		Superintending Engineers/ Elec. Distribution Circles.	Not exceeding Rs. 20 lakhs (per year)	No change
		Chief Engineer/Transmission Project, Chief Engineer/ Operation/ Chief Engineer/P&C	----	Not exceeding Rs.5 lakhs

13.1 (b)	Procurement of IT related equipments Computer consumables/ Spares for maintenance of IT related equipments under open tender system	Regional Chief Engineers	Not exceeding Rs. 20 lakhs (per year)	No change
		Superintending Engineers/ Elec. Distribution Circle	Not exceeding Rs.10 lakhs (per year)	No change
		Chief Engineer/ Transmission Project. Chief Engineer/ Operation /Chief Engineer/ P&C	----	Not exceeding Rs.20 lakhs (per year)
13.1 (c)	Floating and awarding of contract towards provision of necessary band width connectivity under open tender system	Regional Chief Engineers including Chief Engineer/ Information Technology	Not exceeding Rs. 10 lakhs (per year)	No change
		Board Level Tender Committee	Not exceeding Rs. 10 Crore	No change

(By Order of the Board)

K. Govindan,  
Chief Financial Controller/General.

\* \* \*

Share Capital - TNEB Limited - Enhancement of Authorised Share Capital from Rs.17,000 Crores to Rs. 22,000 Crores - Approved - Orders - Issued.

(Accounts Branch)

(Per) F.B. TNEB Ltd Proceedings No.4

Dated the 23<sup>rd</sup> July 2015  
Aadi 7, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046

READ:-

Item No.6 of 5<sup>th</sup> Annual General Meeting of TNEB Limited held on 17.07.2015.

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### **PROCEEDINGS:**

As per the Companies Act 2013 and Memorandum of Association & Articles of Association of TNEB Limited, the powers for increasing Authorised Share Capital of the Company is vested with Annual General Body Meeting (AGM) and any increase in the Authorised Share Capital, it will be necessarily has to be got approved by members in AGM.

2) Accordingly, a proposal for increasing the Authorised Share Capital of TNEB Limited from Rs. 17,000 Crores (Rupees Seventeen thousand Crores only) to Rs. 22,000/- Crores (Rupees Twenty Two thousand Crores only) duly explaining the justification has been placed before the 5<sup>th</sup> Annual General Body Meeting of TNEB Limited.

3) After careful consideration the enhancement proposal was put to vote as an Ordinary Resolution (Special Business) in the 5<sup>th</sup> Annual General Meeting of TNEB Limited held on 17.07.2015 and the following resolution was passed unanimously.

RESOLUTION

"Resolved that pursuant to clause 3 of the Articles of Association of the company the resolution for increasing the authorised share capital of the company from Rs. 17000,00,00,000/- (Rupees Seventeen thousand crores only) divided into 1700,00,00,000/- (One thousand Seven hundred crores) Equity shares of Rs. 10/- (Rupees ten only) each to Rs. 22000,00,00,000 (Twenty Two thousand crores) Equity shares of Rs. 10/- (Rupees ten only) each by creation of 500,00,00,000 Equity share of Rs. 10/- each ranking in all respects pari passu with the existing equity shares may be placed in the ensuring Annual General Meeting for adoption".

(By Order of the Board)

K. Govindan,  
Chief Financial Controller/General.

\* \* \*

TANTRANSCO - Financial assistance of Rs. 1413.66 crores (Rs.275.03 crores + Rs.376.89 crores + Rs.276.09 crores + Rs. 485.65 crores) for 4 Nos. Transmission schemes under P:SI (Transmission) category - Sanctioned by Rural Electrification Corporation Ltd., (REC Ltd.,) New Delhi - Acceptance of Loan - Approval of the Board of Directors - Orders Issued.

(Accounts Branch)

(Per) F.B. TANTRANSCO Proceedings No.4 Dated the 27<sup>th</sup> July 2015  
Aadi 11, Sri Manmada Varudam,  
Thiruvalluvar Andu 2046

READ:-

Minutes of the 59<sup>th</sup> Board Meeting of Tamil Nadu  
Transmission Corporation Ltd held on 17.07.2015, Item  
No. 27.

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**PROCEEDINGS:**

Rural Electrification Corporation Ltd., vide their letter no. REC/T&D/CHN/ Sanction/P:SI (Trans)/2015-16/199 dated 16.06.2015 has sanctioned financial assistance of Rs. 1413.66 crores (Rs. 275.03 crores + Rs 376.89 crores + Rs. 276.09 crores + Rs.485.65 crores) for 4 Nos. Transmission schemes under P:SI (Transmission) category for the following schemes:

Details	Scheme 1	Scheme 2	Scheme 3	Scheme 4
<b>Name of the scheme</b>	Erection of <b>39.9 km</b> 230 kv & <b>526.55 km</b> 110 kv lines for System Improvement works in General Construction Circle of <b>Trichy</b> Region of Tamil Nadu.	Erection of <b>48.56 km,</b> 230 kv & <b>645.963 km,</b> 110 Kv lines for System Improvement works in General construction Circle of <b>Salem</b> Region of Tamil Nadu	Erection of <b>101 Km,</b> 230 Kv & <b>352.142 Km,</b> 110 Kv lines for System Improvement works in General construction Circle of <b>Coimbatore</b> Region of Tamil Nadu.	Erection of <b>747.38 Km</b> 110 Kv lines on Panther Conductor and <b>11.33 Km</b> 110 KV UG cable as part of system Improvement works in General Construction Circle <b>Madurai</b> Region of Tamil Nadu.
District/Region	<b>Trichy</b>	<b>Salem</b>	<b>Coimbatore</b>	<b>Madurai</b>
<b>Scheme code no</b>	<b>TN-TD-TRM- 333-2015-9207</b>	<b>TN-TD-TRM- 333-2015-9208</b>	<b>TN-TD-TRM- 333-2015-9209</b>	<b>TN-TD-TRM- 333-2015-9321</b>

Category	P:SI	P:SI	P:SI	P:SI
Sub category	<b>Transmission</b>	<b>Transmission</b>	<b>Transmission</b>	<b>Transmission</b>
Cost of the project in Rs. Lakhs	<b>30559.00</b>	<b>41876.44</b>	<b>30676.81</b>	<b>53960.66</b>
IDC if any in Rs. lakhs	Nil	Nil	Nil	Nil
Total cost including IDC in Rs. Lakhs	<b>30559.00</b>	<b>41876.44</b>	<b>30676.81</b>	<b>53960.66</b>
<b>Loan amount sanctioned (Rs. lakhs)</b>	<b>27503.10</b>	<b>37688.79</b>	<b>27609.13</b>	<b>48564.59</b>
IDC (Rs. lakhs)	Nil	Nil	Nil	Nil
Total Loan (Rs.lakhs)	<b>27503.10</b>	<b>37688.79</b>	<b>27609.13</b>	<b>48564.59</b>
Cost escalation % sanctioned if any	Nil	Nil	Nil	Nil
Extent of financing (% of loan to cost may be given)	90%	90%	90%	90%

The terms and conditions for the above term loan of Rs. 1413.66 crores (Rs.275.03 crores + Rs.376.89 crores + Rs.276.09 crores + Rs.485.65 crores) as stipulated by the REC Ltd., New Delhi, in their letter dated 16.06.2015 is follows:

Amount	:	Rs.1413.66 crores (Rupees one thousand four hundred and thirteen crores and sixty six lakhs only)
Rate of interest	:	The interest shall be charged on the loan at the rate prevailing on the date of each disbursement as per REC's latest loan policy circular. The present rate of interest is as under: (i) with interest reset option after three years - @12.25% per annum  OR (ii) with interest reset option after ten years - @ 12.50% per annum.
Tenure	:	13 years including 3 years moratorium for repayment of principal.
Repayment	:	10 years after the moratorium period of 3 years in ten annual equal instalments.
Validity of sanction	:	Within 6 months from the date of sanction.
Security	:	Mortgage / Hypothecation of future assets so created out of loan amount sanctioned for the project subject to the value being 110% of the loan amount so sanctioned. The security by way of creation of charges of FUTURE ASSETS ONLY shall be accepted subject to the loan amount being restricted to 90% of the project cost.

2. After careful consideration, the TANTRANSCO have approved and to accept the Rs. 1413.66 crores (Rs.275.03 crores + Rs.376.89 crores + Rs.276.09 crores + Rs. 485.65 crores) for 4 Nos. Transmission schemes under P:SI (Transmission) category sanctioned by Rural Electrification Corporation Ltd., (REC Ltd) New Delhi and accepting all the terms and conditions mentioned in REC sanctioned letter dated 16.06.2015.

3. The TANTRANSCO has also passed the following resolutions:-

**RESOLUTIONS**

**I. RESOLVED** that the Tamil Nadu Transmission Corporation Ltd., (TANTRANSCO) do accept the Term Loan of Rs. 1413.66 crores (Rs.275.03 crores + Rs.376.89 crores + Rs.276.09 crores + Rs. 485.65 crores) for 4 Nos. Transmission schemes under P:SI (Trans) category sanctioned by Rural Electrification Corporation Ltd., (REC Ltd) New Delhi and also the terms and conditions as stipulated by the REC Ltd., New Delhi, vide sanction letter dated 16.06.2015.

**II. RESOLVED FURTHER** that the Chairman TANTRANSCO be and is hereby authorized to accept any special conditions that may be stipulated by REC Ltd., and that such acceptable terms and conditions may be communicated to REC by Chief Financial Controller / TANTRANSCO on behalf of the Chairman/TANTRANSCO.

**III. RESOLVED FURTHER** that the Chief Financial Controller/TANTRANSCO be and is hereby authorised to execute relevant loan documents, any amendments, such certificates and other writings and create security by way of creation of charges on existing assets on behalf of the TANTRANSCO.

**IV. RESOLVED FURTHER** that the common seal of the company be affixed on the security documents and any other related documents as may be required by REC in the presence of the Director (Finance) and Managing Director of Director/ Transmission project and the Company Secretary shall/sign the same in token thereof.

**V. RESOLVED FURTHER** that the Company Secretary/TANTRANSCO and is hereby authorized to create charges with Registrar of Companies (ROC) within 30 days from the date of execution of loan documents.

(By Order of the Board)

M. Maheswari Bai,  
Chief Financial Controller/TANTRANSCO.

\* \* \*

# TECHNICAL

## PART – IV

MTPS-I – Supply, Erection, Testing & Commissioning of scrapper feeder assembly (1B1) complete set for Bottom Ash Hopper, Unit-I – Administrative Approval – Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.271. Dated the 1<sup>st</sup> July, 2015.  
Aani 16, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Note approved by CMD/TANGEDCO on 26.06.2015.

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### PROCEEDINGS:

Administrative approval is accorded for supply, erection, testing & commissioning of scrapper feeder (1B1) assembly complete set – 1 No. for Bottom Ash Hopper, Unit-I for a value of Rs.84,25,000/- exclusive of Taxes & Duties etc., under open tender system by CE/MTPS-I.

(By Order of the Chairman - cum - Managing Director)

UL. Nagappan,  
Chief Engineer/Mech./Thermal Stations.

\* \* \*

TANGEDCO – Setting up of Uppur Thermal Power Project (2x800 MW) – Land Acquisition and alienation under progress – Cost for Patta land arrived by Revenue Unit Payment to Revenue Department – Approval – Accorded.

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(Technical Branch)

Per. (CMD) TANGEDCO Proceedings No.272. Dated the 1<sup>st</sup> July 2015.  
Aani 16, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

CE/Projects Note approved by CMD/TANGEDCO on  
29.06.2015.

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### PROCEEDINGS:

Approval is accorded for making payment of Rs.5,21,58,999/- (Rupees Five Crores twenty one lakhs fifty eight thousand and nine hundred and ninety nine only) towards the land cost for the acquisition of patta lands for the Uppur TPP with the following split up amount in respect of each revenue units as stated below:

i) To Special Tahsildar/Land Acquisition/Uppur Thermal Power Project Unit-I/ Ramanathapuram : Rs.2,24,69,909/- for acquiring 273.16 acres of patta land.

ii) To Special Tahsildar/Land Acquisition/Uppur Thermal Power Project/Unit-II/ Ramanathapuram : Rs.1,84,95,048/- for acquiring 278.16 acres of patta land including the tree values.



iii) To Special Tahsildar/Land Acquisition/Uppur Thermal Power Project/Unit-III/Ramanathapuram : Rs.1,11,94,042/- for acquiring 222.98 acres of patta land.

(By Order of the Chairman - cum - Managing Director)

P. Shanmughanathan,  
Chief Engineer/Projects (I/c).

\* \* \*

TANGEDCO – Bhavani Kattalai Barrage-III HEP (2x15 MW) – W.P.14875/2013 filed by Thiru P.Songappan, S/o.Pongianna Gounder, Solasiramani, Namakkal District against TNEB regarding land acquisition in S.F.No.151/5 & 151/1 B in Solasiramani village situated in Bhavani Kattalai Barrage-III HEP – Special fee Rs.1,00,000/- for the Standing Counsel – Approval – Accorded.

(Technical Branch)

Per. (CMD) TANGEDCO Proceedings No.275. Dated the 2<sup>nd</sup> July 2015.  
Aani 17, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

CE/Civil Designs Note approved by CMD/TANGEDCO  
Dt.26.06.2015.

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**PROCEEDINGS:**

Approval is hereby accorded for making payment of Special fees of Rs.1,00,000/- (Rupees One lakh only) to Thiru P.Gunaraj, Board Standing Counsel for appearance in various dates for the W.P.14875/2013 on behalf of TANGEDCO in the High Court for the case filed by Thiru P.Songappan, S/o.Pongianna Gounder, Solasiramani, Namakkal District against TANGEDCO (TNEB) regarding land acquisition in S.F.No.151/5 & 151/1 B in Solasiramani village situated in Bhavani Kattalai Barrage-III HEP and arguing the matter and got favourable order (Dismissal of W.P.14875/2013) so as to safeguard the interest of the Board.

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

C. Ramesh,  
Chief Engineer/Civil Designs (I/c).

\* \* \*

Procurement of 1 No. New, Diesel Driven, Maruti Swift Dzire ZDI Model AC Car instead of proposed Toyota Etios VD (M) model for the use of Chief Engineer/Distribution/Trichy towards replacement of Ambassador Car bearing Registration No.TN-45-AE-7995 proposed for diversion to Superintending Engineer/Perambalur EDC/Perambalur by cancelling the existing hiring order - Approval – Accorded.

(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.276. Dated the 2<sup>nd</sup> July 2015.  
Aani 17, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Extract of the minutes of the 216<sup>th</sup> BLTC meeting of TANGEDCO held on 30.06.2015 vide Item No.2989 of CE/MM.

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**PROCEEDINGS:**

"Administrative approval is hereby accorded for

1. Procurement of 1 No. New, Diesel Driven, Maruti Swift Dzire ZDI Model AC Car instead of proposed Toyota Etios VD (M) model for the use of Chief Engineer/Distribution/Trichy at DGS & D rate/rates as applicable to Govt. Ex- Show room price with waiver of EMD., SD and LD clauses and

2. Diversion of existing Amabassador Car bearing Regn.No. TN-45-AE-7995 utilised by Chief Engineer/Distribution/Trichy to Superintending Engineer/Perambalur EDC/Perambalur by cancelling the existing hiring order."

(By Order of the BLTC of TANGEDCO)

K. Vaidehi,  
Chief Engineer/Materials Management. (I/c).

\* \* \*

Hydro – Tirunelveli Generation Circle – Estimate for providing security arrangements thro' T.N.Ex-Servicemen's Corporation Limited (TEXCO) for 3 Nos. sub-store and 1 No. TG Shed stores in Tirunelveli Generation Circle for a period of one year from the date of commencement of work for the year 2015-2016 - Administrative Approval – Accorded.

(Technical Branch)

(Rt.) CMD TANGEDCO Proceedings No.62. Dated the 2<sup>nd</sup> July 2015.  
Aani 17, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

CE/Hydro's Note approved by the CMD/TANGEDCO  
Dt.29.06.2015.

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**PROCEEDINGS:**

Administrative approval is accorded for "Providing security arrangements through T.N.Ex-Servicemen's Corporation Limited (TEXCO) for 3 Nos. sub-store and 1 No. TG shed Stores in Tirunelveli Generation Circle for a period of one year from the date of commencement of work for the year 2015-2016" for a value of **Rs.20,05,200/- Gross & Nett (Rupees Twenty lakhs five thousand and two hundred only)** inclusive of service charges @ 12% and service tax @ 14% at the rate specified in (Per.) CMD TANGEDCO Proceedings No.297, Technical Branch dt 17.07.2014.

(By Order of the Chairman - cum - Managing Director)

T. Prabhakar,  
Chief Engineer/Hydro.

\* \* \*

CE/MTS Office – Replacement of 2 Nos. Thin client computers by Personal Computers in the E4 Division at the O/o.SE/Thermal Purchase Circle – Approval – Accorded.

(Technical Branch)

Per. (CMD) TANGEDCO Proceedings No.278. Dated the 3<sup>rd</sup> July 2015.  
Aani 18, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Note approved by the CMD/TANGEDCO on 26.06.2015.

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**PROCEEDINGS:**

Approval is accorded for replacing the existing two Nos. Thin Client computers and one No. Dot Matrix Printer in the E4 Division at the O/o. SE/Thermal Purchase Circle by two Personal Computers with latest version of Windows Operating System and 2 Nos. Laser printers with back to back printing facility at a total cost of Rs.1,14,000/- (Rupees One lakh and fourteen thousand only).

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

UL. Nagappan,  
Chief Engineer/Mech./Thermal Stations.

\* \* \*

TNEB – Headquarters Complex – Purchase of Drinking water from CMWSSB from 17.07.2015 to 16.12.2015 – Administrative approval and advance payment to be made for the above period – Administrative Approval – Accorded.

(Technical Branch)

Rt. (CMD) TANGEDCO Proceedings No.63. Dated the 4<sup>th</sup> July 2015.  
Aani 19, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

CE/CD Note approved by the CMD/TANGEDCO on  
26.06.2015.

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**PROCEEDINGS:**

1. (a) Administrative approval is hereby accorded to purchase 1,44,00,000 litres of drinking water from Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB) using water tanker lorry loads of 9,000 litres capacity at the rate of Rs.600/- per tanker or at the rate of Rs.1068/- per 16,000 litres capacity or at the rate of Rs.1335/- per 20,000 litres capacity, at the total value of Rs.9,61,200/- (Rupees Nine lakhs sixty one thousand and two hundred only) for a period of 05 months from 17.07.2015 to 16.12.2015 to cater to the needs at TNEB Headquarters Complex.

b) Approval is also accorded to make an advance payment varying from Rs.56,400/- to Rs.69,000/- per month to CMWSSB from 17.07.2015 onwards upto 16.12.2015 without exceeding the face value of the P.O. to be issued towards supply of water to cater to the needs at TNEB Headquarters Complex.

2. The expenditure is chargeable to TANGEDCO Funds – Revenue Expenditure A/c No.76.190 water charges.

(By Order of the Chairman - cum - Managing Director)

C. Ramesh,  
Chief Engineer/Civil Designs (I/c).

\* \* \*

NCES – Wind Energy – Erection of Additional 1x25 MVA 110/33 KV Power Transformer at existing Ayyanaruthu 110/33 KV TANTRANSCO Sub Station - Administrative Approval Accorded.

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(Technical Branch)

(Per.) CH/TANTRANSCO Proceedings No.104. Dated the 4<sup>th</sup> July 2015.

Aani 19, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

CH/TANTRANSCO approval dt.26.06.2015.

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**PROCEEDINGS:**

1. The Tamil Nadu Transmission Corporation Ltd., hereby approves the proposal for erection of additional 1x25 MVA 110/33 KV Power Transformer at existing Ayyanaruthu 110/33 KV TANTRANSCO Sub Station for wind power evacuation, at an estimated cost of Rs.263 Lakhs Gross and Nett and ratification for having entrusted the above work to M/s. Pioneer Wincon Pvt. Ltd., on behalf of National Institute of Wind Energy (NIWE), in anticipation of administrative approval.

2. The expenditure is chargeable to TANTRANSCO – Funds – Capital Expenditure-Tirunelveli Operation Circle – A/c Code No.14.655.

3. By virtue of the provisions contained in Sub-Section (2) (a) of section 185 of the Electricity Act, 2003, the TANTRANSCO being the Transmission utility, Licensee and successor entity of Tamil Nadu Electricity Board will exercise the powers of the Telegraph Authority under the provisions of section 164 of the Electricity Act, 2003 which have already been conferred upon the Board under section 51 of the Indian Electricity Act, 1910.

4. The work is to be taken up after ensuring budget Provision.

(By Order of the Chairman)

A. Subramanian,  
Chief Engineer/NCES.

**REPORT TO ACCOMPANY THE ESTIMATE**

This proposal envisages the erection of additional 1x25 MVA 110/33 KV Power Transformer at Ayyanaruthu 110/33 KV SS by M/s. Pioneer Wincon Pvt. Ltd., on behalf of National Institute of Wind Energy (NIWE) for evacuation wind power at an estimate cost of Rs.263 Lakhs Gross & Nett.

**Need:**

National Institute of Wind Energy (NIWE) (formerly Centre for Wind Energy Technology – C-WET), is an autonomous R&D Institution under the Ministry of New & Renewable Energy (MNRE), Govt. of India, having office at Pallikaranai, Chennai, is

carrying research activities in Wind Turbine Technology at Wind Turbine Test Bed at Kayathar Tirunelveli. Their testing WEGs are connected at existing Ayyanaruthu 110 KV SS.

NIWE proposed to conduct research activity with latest Wind Turbine Technology and requested evacuation capacity of 10 MW at existing Ayyanaruthu 110 KV SS.

In Ayyanaruthu 110/33 KV SS, 3x16 MVA, 110/11 KV and 2 Nos. 25 MVA 110/33 KV Power Transformer are available. The entire capacity of the Power Transformers at Ayyanaruthu SS was fully utilized by connecting the various developers WEGs in and around Kayathar area. Hence NIWE was requested to erect additional Power Transformer in the above Ayyanaruthu SS under IDC payment and reimbursement scheme.

Since NIWE doesn't have the experience in erection of Power Transformer, NIWE and M/s. Pioneer Wincon Pvt., Ltd., jointly requested approval to erect additional 1x25 MVA Power Transformer at existing Ayyanaruthu 110 KV SS under IDC payment and reimbursement scheme, by sharing 10 MW to NIWE and 15 MW to M/s. Pioneer Wincon Pvt., Ltd., The Chairman on 30.03.2015 has approved the above request of NIWE and M/s. Pioneer Wincon Pvt. Ltd.,

M/s. Pioneer Wincon Pvt., Ltd., has paid the refundable security deposit of Rs.50/- lakhs (@ Rs.2 Lakhs/MW) vide PR.No.208933 dt.08.04.2015 for award of work. Based on the payment, the entry permission has been given to M/s. Pioneer Wincom Pvt. Ltd., on 20.04.2015 to take up the work.

#### **Details of work:**

1. Erection of additional 1 No. 25 MVA, 110/33 KV Power Transformer at Ayyanaruthu 110 KV SS with associated switchgears and auxiliaries.
2. Erection of related Control and Relay panels.

#### **Estimated cost:**

The estimated cost works out to Rs.263 Lakhs Gorss and Nett. based on the TANTRANSCO cost data for the year 2014-2015, hence 10% escalation has already been included. The detailed estimate is annexed.

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#### **DETAILED ESTIMATE FOR ERECTING NEWLY PROPOSED 1X25 MVA, 110/33 KV FOR M/S. PIONEER WINCON ON BEHALF OF NIWE AT AYYANARUTHU SS**

Sl.No.	Description	Quantity		Rate in Lakhs	Per	Amount in Lakhs
<b>A</b>	<b>CIVIL WORKS</b>					
1	Station Yard, foundation, cable duct Retaining walls, filling & levelling				LS	20.000
2	Total (Inclusive of all charges)					20.000
<b>B</b>	<b>ELECTRICAL WORKS EQUIPMENTS</b>					
3	110 KV AB Switch (Without Earth)	1	Nos	2.085	E	2.085
4	110 KV LAS (Single Phase Type)	3	Nos	0.243	E	0.729
5	33 KV VCB (1LV + 2 Feeders)	3	Nos	2.104	E	6.312
6	33 KV Current Transformer (1200-600/1A)	9	Nos	0.235	E	2.115
7	33 KV Pottential Transformer	3	Nos	0.193	E	0.579

8	33 KV AB Switch (Centre rotating)	6	Nos	0.279	E	1.676
9	33 KV LAS (Single Phase Station Type)	3	Nos	0.264	E	0.791
10	C&R Panel for LV breaker	1	Nos	2.303	E	2.303
11	110 VDC Annunciator Panel Type A	1	Nos	0.784	E	0.784
12	C&R Panel for twin feeder	1	Nos	0.651	E	0.651
13	AC Panel for 110 KV SS	1	Nos	0.738	E	0.738
	Sub Total					17.375
	<b>C CABLES</b>					
14	Control Cable of assorted sizes		LS		LS	5.000
15	Cable for interconnecting aux.panels		LS		LS	3.000
16	Plinth for Breakers	3	No	0.273	E	0.819
17	Sub Total					8.819
18	Cost of Materials (A+B+C)					46.194
19	Cost Escalation @ 10% for 2015-16					4.619
20	Accessories @3%					1.524
21	Sub Total					52.337
22	Contingencies @ 1%					0.523
23	Sub Total					52.861
24	Labour & Transport Charges @ 15%					7.929
25	Cost of Materials & Labour					60.790
	<b>D TRANSFORMERS</b>					
26	25 MVA, 110/33 KV Pr Tr with OLTC	1	Nos	133.173	E	133.173
27	Transformer Rail Tracks	1	Loc	2.000	Loc	2.000
28	Earthing	1	Loc	0.550	Loc	0.550
29	Sub Total					135.723
	Cost Escalation @ 10% for 2015-16					13.572
	Sub Total					149.295
30	Contingencies @ 1%					1.493
31	Plinth, Labour & Transport for Trs	1	Loc	1.500	Loc	1.500
32	Sub Total					152.288
33	Estt. & Supervision Charges 15%					22.843
34	Total					175.131
	<b>E STRUCTURES</b>					
35	110 KV Structure (Extension only)	1	LS	12.041	Each	12.041
	Bus Bar arrangement at 110 KV	1	LS	1.533	Each	1.533
36	33 KV Structure	1	set	10.392	Each	10.392
	Bus Bar arrangement at 33 KV	1	LS	0.857	Each	0.857
37	Sub Total					23.966
	Cost Escalation @ 10%					2.397
	Sub Total					26.363
38	Gross Total for works					262.28
Or say Rs. in Lakhs						263.00

(Rupees Two Hundred and Sixty three Lakhs Only)

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\* \* \*

TANGEDCO – Manufacture and supply of 15360 Nos. 7.50 m PSC (REC Design) cast in twin mould form boxes at Vaniyankulam PSC yard by leasing the Yard for a period of one year - Approval – Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.283. Dated the 7<sup>th</sup> July 2015.  
Aani 22, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Chief Engineer/Civil Designs Note approved by the CMD/  
TANGEDCO on 03.07.2015.

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### PROCEEDINGS:

Administrative approval is hereby accorded for the work of Manufacture and supply of 15360 Nos. 7.50 m PSC poles (REC DESIGN) using the Twin mould Form boxes at Vaniyankulam PSC Yard by leasing the PSC Yard for a period of one year at an estimate cost of Rs.2,37,76,700/- (Rupees Two crores thrity seven lakhs seventy six thousand and seven hundred only) based on the PWD Schedule of rates 2014-2015.

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

C. Ramesh,  
Chief Engineer/Civil Designs (A/c).

\* \* \*

Hydro – **Generation Circle Tirunelveli** – Sweeping and cleaning in and around power house, Inspection Bungalow, Cleaning toilets & open drain, petty repair work etc., in Power House and Camp area at **Periyar Lower Camp & Vaigai Micro Hydrel Power House Station** by awarding Works Contract for a period of one year from the date of utilization – Administrative Approval – Accorded.

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(Technical Branch)

(Rt.) CMD TANGEDCO Proceedings No.64. Dated the 7<sup>th</sup> July, 2015.  
Aani 22, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

CE/Hydro's Note approved by the CMD/TANGEDCO  
Dt.03.07.2015.

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### PROCEEDINGS:

Administrative approval is accorded for carrying out "Maintenance works of periodical Sweeping and cleaning in and around power house, Inspection Bungalow, Cleaning toilets & open drain, petty repair work etc., in Power House and camp area at **Periyar Lower Camp & Vaigai Micro Hydrel Power House Station** by awarding Works Contract for a period of one year from the date of utilization at an estimated cost of **Rs.9,86,400/- (Rupees Nine lakhs eighty six thousand and four hundred**

**only) (Gross & Nett)** including service tax @ 14% based on the PWD Schedule of rates for the year 2014-2015.

(By Order of the Chairman - cum - Managing Director)

T. Prabhakar,  
Chief Engineer/Hydro.

\* \* \*

TANGEDCO – Mettur Workshop Circle – Payment of fees to Thiru P.C.Anand, Chartered Accountant and Central Excise Consultant, M/s. Chakaravarthy Associates, Chennai – Approved.

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(Technical Branch)

(Rt.) CMD TANGEDCO Proceedings No.65. Dated the 10<sup>th</sup> July, 2015.  
Aani 25, Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. Lr.No.SE/MWC/AO/AAO/APS/AS/F.Central Excise/D.13/2015, Dt.04.05.2015.
2. CMD Note approval Dt.07.07.2015.

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**PROCEEDINGS:**

Approval is accorded for the payment of Rs.4,49,440/- (Rs.4,00,000/- + Rs.49,440/- (Service Tax @ 12.36%)) for the service rendered on all the three cases (E/1229/2004, E197 to 206/2009 and E41368 & 41369/2013) by Thiru P.C.Anand, Chartered Accountant and Central Excise Consultant, M/s.Chakaravarthy Associates, Chennai.

(By Order of the Chairman - cum - Managing Director)

K. Balasubramanian,  
Chief Engineer/Materials Management.

\* \* \*

TANGEDCO – Projects – Establishment of 1x800 MW Supercritical Coal based North Chennai Thermal Power Project, Stage-III at Thiruvallur District under Two packages – BTG Package and BOP Package under EPC basis instead of a Single EPC Contract – Approval – Accorded.

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(Technical Branch)

(Per.) FB TANGEDCO Proceedings No.39. Dated the 10<sup>th</sup> July, 2015.  
Aani 25, Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Approval of TANGEDCO Board by Circulation on  
10.07.2015.

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**PROCEEDINGS:**

Tamil Nadu Generation and Distribution Corporation Board accorded approval



for the establishment of 1x800 MW Super Critical Thermal Power Project, Stage-III in the land earlier allotted to M/s.Trishakthi Energy Pvt. Ltd., in the NCTPS Complex by TNEB under State Sector vide B.P.(FB) 67 (Technical Branch) dated 14.06.2010.

It is proposed to execute the Project through two separate EPC contract viz. Boiler Turbine and Generator Package (BTG) and Balance of Plant Package (BOP).

a) After careful consideration, the Tamil Nadu Generation and Distribution Corporation Board accorded approval for the following:

To execute 1x800 MW Supercritical Coal based North Chennai Thermal Power Project, Stage III at Thiruvallur District through the following two packages instead of single Engineering, Procurement and Construction (EPC) Package, for better Project Management and also for effecting reduction in the Project Cost.

i) Boiler Turbine and Generator Package (BTG) & its auxiliaries, and allied Civil works related to BTG as one EPC Package, adopting the guidelines of the CEA circular dated 30<sup>th</sup> August 2013 for Supercritical Equipments.

ii) Balance of Plant Package (BOP) which includes works like Chimney, Natural Draft Cooling Tower, Coal Handling System, Ash Handling System, Cooling Water System, GIS etc., including all Civil works relating to the BOP, as one EPC Package.

b) To authorize Chief Engineer/Projects to issue Notice Inviting Tender (NIT) for BTG Package immediately and for BOP Package subsequently.

(By Order of the Board)

P. Shanmuganathan,  
Chief Engineer/Projects. (I/c).

\* \* \*

TANGEDCO – Trichy Region – Manufacture and supply of 30240 Nos. of 7.50 m PSC poles and 5760 Nos. of 8.0 m PSC poles (REC Design) cast in twin mould form boxes for a period of one year at Samayapuram PSC yard – Administrative Approval – Accorded.

(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.286. Dated the 10<sup>th</sup> July, 2015.  
Aani 25, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Chief Engineer/Civil Designs Note approved by the CMD/  
TANGEDCO on 06.07.2015.

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### **PROCEEDINGS:**

Approval is hereby accorded for the proposal of Chief Engineer/Distribution/Trichy Region for the work of Manufacturing and supply of 30240 Nos. of 7.50 m PSC poles and 5760 Nos. of 8.00 m PSC poles (REC Design) cast in twin mould form boxes for a period of one year at Samayapuram PSC yard at an estimated cost of Rs.5,77,43,300/- (Rupees Five crores seventy seven lakhs forty three thousand and three hundred only), including all taxes and duties.

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

C. Ramesh,  
Chief Engineer/Civil Designs. (I/c.)

\* \* \*

"Sillahalla Pumped Storage Hydro-Electric Project (2000 MW) Phase-I in Nilgiris District – Engaging Thiru K.Jawaran, TANGEDCO retired Foreman for a period of one more year (from July 2015 to June 2016) on daily wages basis (as per PWD Schedule of rates) for the various project pre-development activities including the "Sillahalla Pumped Storage Hydro-Electric Project (2000 MW)" - Approval – Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.289. Dated the 13<sup>th</sup> July, 2015.  
Aani 28, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Note approved by CMD/TANGEDCO dt.07.07.2015.

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**PROCEEDINGS:**

Approval is hereby accorded to engage Thiru K.Jawaran, retired Foreman in the O/o the Executive Engineer/Projects Investigation/Salem, for a period of one more year (from July 2015 to June 2016) on daily wages basis (as per PWD Schedule of rates) as per conditions mentioned as below, for the various project predevelopment activities including the Sillahalla Pumped Storage Hydro-Electric Project (2000 MW).

(i) Thiru K.Jawaran, Foreman (Retd) has to give his consent to do the project investigation works with wage as per PWD Schedule of rates for the Nilgiris district and not to claim allowances of any kind apart from the daily wage.

(ii) The individual shall furnish an undertaking in stamp paper for the following condition:

(a) TANGEDCO will not be responsible for any damage caused to him by way of vehicle accidents or accidents at sites or harm caused to the individual due to personal accidents or wild animals and will not indemnify him unexpected incidents of any kind.

(b) He will insure himself for accidents or loss of life.

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

P. Shanmuganathan,  
Chief Engineer/Projects. (I/c.)

\* \* \*

CE/M/TS Office – Provision of 4 Nos. of core i3 desktop PCs and 4 Nos. of duplex laser jet printers for use of 4 Nos. of Assistant Executive Engineers in SE/Betterment Circle – Administrative Approval – Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.291. Dated the 13<sup>th</sup> July, 2015.  
Aani 28, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Note approved by CMD/TANGEDCO on 09.07.2015.

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**PROCEEDINGS:**

Administrative approval is accorded for the provision of 4 Nos. of core i3 desktop PCs and 4 Nos. of duplex laser jet printers at an approximate cost of Rs.2,20,000/- (Rupees Two lakhs and twenty thousand only) for use of 3 Nos. of Assistant Executive Engineer/Electrical and 1 No. AEE/Mechanical in SE/Betterment Circle at the O/o.CE/M/TS.

(By Order of the Chairman - cum - Managing Director)

UL. Nagappan,  
Chief Engineer/Mech./Thermal Stations.

\* \* \*

TANGEDCO – World Bank funded Dam Rehabilitation and Improvement Project (DRIP) Availing Technical Assistance service by engaging Graduate Engineers through a firm for assisting the AEEs/Civil for DRIP works in the Dam Safety Division, O/o.SE/C/Dam Safety under the control of Chief Engineer/Civil Designs, through Tender process and One No. of Retired Accounts Personnel by Direct engagement for a period of 6 (six) months from the date of engagement – Administrative sanction - Accorded.

(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.292. Dated the 13<sup>th</sup> July, 2015.  
Aani 28, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Chief Engineer/Civil Designs Note approved by  
CMD/TANGEDCO dt.03.07.2015.

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**PROCEEDINGS:**

Administrative sanction is hereby accorded for a period of 6 (six) months from the dae of engagement for the following:

(i) Availing Technical Assistance service by engaging Graduate Engineers (BE/ Civil passed) through a firm for assisting the AEEs/Civil for DRIP works in the Dam Safety Division, O/o.SE/C/Dam Safety under the control of Chief Engineer/Civil Designs at HQ, by way of calling Tender, for a total value of Rs.3,78,700/- (Rupees Three Lakhs seventy eight thousand and seven hundred only).

(ii) Engaging One No. of Retired Accounts Personnel by Direct engagement as per Chief Financial Controller letter dated 09.01.2014 at the prevailing rates for DRIP works.

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

C. Ramesh,  
Chief Engineer/Civil Designs.(I/c).

\* \* \*

Hydro – Generation Circle Tirunelveli – Maintenance by periodical Sweeping, Cleaning Highwavys pump house, all section offices, Dispensary, rest room, cleaning the silt, slush and calcinations inside the Gallery and cleaning the scurb at the approaches of Highwavys, Venniyar, Eravangalar and Manalar Dam in **Suruliyar Upper Camp** and Maintenance by periodical Sweeping, cleaning in and around power house, Dispensary, Office Building, cleaning drinking water diversion bund, filter tank bed, cleaning toilets, open drain etc., in Suruliyar Power House and Camp area at **Suruliyar Lower Camp** for the period of one year from the date of utilization for the year 2015-2016 – Administrative Approval – Accorded.

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(Technical Branch)

(Rt.) CMD TANGEDCO Proceedings No.68. Dated the 13<sup>th</sup> July, 2015.  
Aani 28, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

CE/Hydro's Note approved by CMD/TANGEDCO  
dated 09.07.2015.

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**PROCEEDINGS:**

Administrative approval is accorded for the following works pertaining to Tirunelveli Generation Circle for the period of one year from the date of utilization for the year 2015-2016 including service tax based on the PWD Schedule of Rates for the year 2014-2015.

(i) Maintenance by periodical Sweeping, Cleaning Highwavys pump house, all section offices, Dispensary, rest room, cleaning the silt, slush and calcinations inside the Gallery and cleaning the scurb at the approaches of Highwavys, Venniyar, Eravangalar and Manalar Dam in **Suruliyar Upper Camp** by awarding Works Contract at an estimated cost of Rs.5,14,050/- (Rupees Five lakhs fourteen thousand and fifty only) (Gross & Nett).

(ii) Maintenance by periodical Sweeping, cleaning in and around power house, Dispensary, Office Building, cleaning drinking water diversion bund, filter tank bed, cleaning toilets, open drain etc., in Suruliyar Power House and Camp area at **Suruliyar Lower Camp** by awarding Works Contract at an estimated cost of Rs.5,52,720/- (Rupees Five lakhs fifty two thousand seven hundred and twenty only) (Gross & Nett).

(By Order of the Chairman - cum - Managing Director)

T. Prabhakar,  
Chief Engineer/Hydro.

\* \* \*

Condemnation of departmental petrol driven Hyundai Getz car bearing Regn. No.TN-01-AJ-2625 and procurement of One No. New, Petrol Driven, Toyota Corolla Altis model 1.8J+YA BS-IV, super white AC Car towards replacement of condemned vehicle attached to VIP Pool under the control of Chief Public Relations Officer/TANGEDCO/Chennai – Approval – Accorded.

(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.295. Dated the 15<sup>th</sup> July, 2015.  
Aani 30, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. Under BLTC Circulation Order Dt.14.07.2015.

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**PROCEEDINGS:**

“Administrative approval is hereby accorded for condemnation of departmental petrol driven Hyundai Getz car bearing Regn. No.TN-01-AJ-2625 and procurement of One No. New, Petrol Driven, Toyota Corolla Altis model 1.8J+YA BS-IV, super white AC Car at a cost of Rs.16.30 Lakhs (approximate) towards replacement of condemned vehicle attached to VIP Pool under the control of Chief Public Relations Officer/TANGEDCO/Chennai at rates as applicable to Govt./Ex-show room rate with waiver of EMD, SD and LD clauses”.

(By Order of the BLTC of TANGEDCO by Circulation)

K. Vaidehi,  
Chief Engineer/Materials Management.(I/c.)

\* \* \*

MTPS II – ES circle - Control and instrumentation - Procurement of critical spares for Distributed Control System (DCS) under single tender/proprietary system/private sector - Approval Accorded – Regarding.

(Technical Branch)

(Per) TANGEDCO Proceedings (CMD) No.297 Dated the 16<sup>th</sup> July 2015  
Aani 31, Sri Manmatha Varudam,  
Thiruvalluvar Aandu -2046.

READ :-

Note approved by the CMD/TANGEDCO on 10.07.2015.

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**PROCEEDINGS:**

Approval is accorded for Procurement of following 51 items of spares for Distributed Control system of 600 MW Unit of MTPS II from M/s. Invensys India Private Ltd, Chennai at an approximate cost of Rs. 5,12,82,914/- (Rupees five Crores, twelve lakhs, eighty two thousand, nine hundred and fourteen only) including Taxes & Duties, Packing and forwarding and excluding Freight & Octroi and Transit insurance under single tender proprietary system – private sector from M/s. Invensys India Private Ltd, Chennai by Chief Engineer/MTPS –II.

<b>Description</b>			
<b>Sl.No.</b>	<b>Material Name</b>	<b>IA Part no.</b>	<b>Qty</b>
1	FCP 270 Control Processor	P0917YZ	6
2	FBM 201 Channel isolated 8 input 0-20 mA	P0916SQ	30
3	FBM 202 Channel isolated 8 input Thermocouple/mV	P0926EQ	13
4	FBM 203 Channel isolated 8 input RTD	P0914SV	22
5	FBM 205 Redundant 0-20 Combo Module	P0914XG	8
6	FBM 207 Channel isolated 16 DIN Voltage Monitor	P0914TD	2
7	FBM 207C Channel isolated 16 Din 48 Vdc Contact sense	P0917GY	107
8	FBM 214 HART Inputs, 8 Channels	P0922VT	17
9	FBM 215 HART Output, 8 Channels	P0922VU	6
10	FBM 237 Channel isolated 8 output 0-20mA	P0914XS	1
11	FBM 242Channel isolated External Source DO	P0916TA	53
12	Spitter combiner	P0926MX	6
13	Base plate (8 slot vertical base plate, time strobe, 8FBM)	P0926JM	10
14	Base plate (4 slot vertical, FCP 270 Expansion base plate)	P0973CN	2
15	Base plate (2FCP slot vertical base plate)	P0926HW	1
16	FBM 201 Termination assembly	P0916AA	6
17	FBM 202 Termination assembly	P0916AC	16
18	FBM 203 Termination assembly	P0916AE	7
19	FBM 205 Termination assembly	P0916AJ	3
20	FBM 206 Termination assembly	P0916JQ	1
21	FBM 207 Termination assembly	P0917MF	1
22	FBM 207C Termination assembly	P0917MF	40
23	FBM 214 Termination assembly	P0916BX	8
24	FBM 215 Termination assembly	P0916XV	3
25	FBM 237 Termination assembly	P0916CC	1
26	FBM 224 Termination assembly	P0926GH	1
27	FEM 100 Module	P0973CA	5
28	FBM 224 (Communication interface module)	P0926GG	1
29	FBM 232 10/100 Mbps Ethernet, single	P0926Gw	1
30	FBM 233 10/100 Mbps Ethernet, Redundant	P0926GX	1
31	FCM 2F2 2KM Fiber Optic Fieldbus Extender	P0914YZ	1
32	FPS 400-24 Power	P0922YU	10
33	FTA Cable (TA to Module link cable) Type 1	P0916 DB	40
34	FTA Cable (TA to Module link cable) Type 2	P0916 DV	8
35	FTA Cable (TA to Module link cable) Type 4	P0916FH	50
36	Module Base plate to Module Base plate Link cable	P0916 NK	10
37	Module Base plate to Controller Base plate Link cable	P0916MZ	5
38	Base plate power cable type 1	P0926KQ	8
39	Base plate power cable type 2	P0926KP	6

40	Base plate power cable type 3	P0926KN	8
41	Base plate power cable type 4	P0926KM	6
42	Base plate power cable type 5	P0926KL	11
43	Base plate power cable type 6	P0926KK	6
44	Base plate power cable type 7	P0931NC	3
45	Fiber Cable (LC/LC)0.25M	P0972ZQ	6
46	Fiber Jump (MTRJ to MTRJ) 1 M		1
47	Jacket Fiber (MTRJ to MTRJ) 40 M		1
48	Jacket Fiber (MTRJ to MTRJ) 60 M		1
49	Jacket Fiber (MTRJ to LC) 25 M		2
50	Jacket Fiber (MTRJ to LC) 35 M		2
51	Jacket Fiber (MTRJ to LC) 50 M		2

(By Order of the Board of TANGEDCO)

UL. Nagappan,  
Chief Engineer/Mechanical/Thermal Stations.

\* \* \*

TANTRANSCO – Operation Circle-I/Chennai – Reconfiguration of 230 KV Alamathy Manali feeder-II as 230 KV Alamathy – Korattur feeder - Administrative Approval – Accorded.

(Technical Branch)

(Per.) TANTRANSCO Proceedings CH No.116. Dated the 17<sup>th</sup> July, 2015.  
Aadi 01, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Note approved by the CMD Dt.16.07.2015.

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**PROCEEDINGS:**

The Chief Engineer/System Operation/Chennai has submitted the following proposal for reconfiguration of 230 KV Alamathy – Manali feeder – II as 230 KV Alamathy – Korattur feeder for Rs.56,63,525/- (Rupees Fifty six lakhs sixty three thousand five hundred and twenty five only) as Gross and Rs.53,82,625/- (Rupees Fifty three lakhs eighty two thousand six hundred and twenty five only) as Nett.

The Chairman/TANTRANSCO hereby accord approval for the above proposal by considering the importance and essentiality of the work.

The expenditure is debitable to "TANTRANSCO Funds – Capital Expenses A/c Head 14.526 (230 KV Sub Station (Lines Cables network).

(By Order of the Chairman/TANTRANSCO)

A. Axilium Jayamary,  
Chief Engineer/Grid Operation.

\* \* \*

TANTRANSCO – Operation Wing – Tirunelveli Operation Circle – Provision of one number Aluminium Alloy Tilttable Trolley Tower extension ladder with projected platform to a height of 20 feet to 50 feet for the use at 400 KV Kayathar Sub Station - Administrative Approval – Accorded.

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(Technical Branch)

(Per.) TANTRANSCO Proceedings (CH) No.117. Dated the 17<sup>th</sup> July, 2015.  
Aadi 01, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Note approved by the Chairman/TANTRANSCO  
Dt.07.07.2015.

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**PROCEEDINGS:**

The Chief Engineer/System Operation/Chennai has submitted the following proposal:

1. Provision of 1 No. Aluminium Alloy Tilttable Trolley tower extension ladder with projected platform to a height of 20 feet to 50 feet for the use at 400 KV Kayathar Sub-Station to rectify the defects and to attend the work during emergencies at an approximate total cost of **Rs.2,31,000.00** (Rupees Two lakhs and thirty one thousand only) inclusive of taxes.

The Chairman/TANTRANSCO hereby accord approval for the above proposal by considering the essentiality of the item of T&P.

The expenditure is debitable to "TANTRANSCO Funds – Capital Expenses A/c Head 14.900 (DRAWAL OF TOOLS & PLANTS, VEHICLES FURNITURES ETC.)

(By Order of the Chairman/TANTRANSCO)

A. Axilium Jayamary,  
Chief Engineer/Grid Operation.

\* \* \*

MTPS-I – Procurement of 1 No. Portable Flue Gas Analyser TESTO 340 for MTPS-I - Administrative Approval – Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.298. Dated the 17<sup>th</sup> July, 2015.  
Aadi 01, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Note approved by the CMD/TANGEDCO on 13.07.2015.

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**PROCEEDINGS:**

Administrative approval is accorded for procurement of 1 No. Porable Flue Gas Analyser TESTO – 340 for MTPS-I at a total cost of Rs.8,39,965/- (Rupees Eight



lakhs thirty nine thousand nine hundred and sixty five only) inclusive of Taxes & duties and exclusive of Service Tax @ 14% for calibration certificate, under Open Tender/ Two Part System, by CE/MTPS-I.

(By Order of the Chairman - cum - Managing Director)

UL. Nagappan,  
Chief Engineer/Mech./Thermal Stations.

\* \* \*

NCES – Wind Energy – Erection of additional 2x25 MVA, 110/33 KV Power Transformer at existing Rasingapuram 110/33 KV SS by M/s.Sri Maruthi Wind Part Developers – Reimbursement claimed by the Company – Finalization of refund amount Approved

(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.299. Dated the 17<sup>th</sup> July, 2015.  
Aadi 01, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. B.P.(FB) No.68 dated 02.07.2003.
2. (Per.) CMD TANGEDCO Pro.No.75 Dated 29.12.2010.
3. (Per.) CMD TANGEDCO Pro.No.26 Dated 27.01.2011.
4. (Per.) CMD TANGEDCO Pro.No.304 Dated 27.08.2011.
5. (Per.) CH. TANTRANSCO Pro.No.179 Dated 18.10.2013.
6. Lr.No.CE/NCES/EE/WPP/AEE2/F.Rasingapuram 2x25 MVA/  
D.No.348/13 Dated 25.11.2013.
7. M/s.Sri Maruthi Wind Part Developers letter Dt.30.04.2015.
8. CMD/TANGEDCO approval Dt.13.07.2015.

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### **PROCEEDINGS:**

Work of erection of additional 2x25 MVA, 110/33 KV Power Transformers at Rasingapuram 110/33 KV SS was sanctioned vide B.P.under reference (5) and the above work was awarded to M/s. Sri Maruthi Wind Part Developers as per award letter under reference (6).

After completion of the above work successfully as per the guidelines stipulated by the Board, the Company has now requested reimbursement of the amount spent by them towards the above works as per the provisions of B.P under reference (1) cited and as per the award letter vide under reference (6).

After careful consideration TANGEDCO approves the following proposals:

1. To deduct 5% Work contract tax from the eligible reimbursement amount.
2. To deduct 2% income tax from the eligible reimbursement amount.
3. To settle the reimbursement amount of Rs.298.624 Lakhs to M/s. Sri Maruthi Wind Park Developers, for the above works as follows:

50

Amount eligible	:	Rs.337.231 Lakhs
Less 5% Work Contract Tax	:	Rs. 16.862 Lakhs (-)
Less 2% Income Tax	:	Rs. 6.745 Lakhs (-)
Less balance IDC to be collected	:	Rs. 15.000 Lakhs (-)
Amount to be reimbursed	:	<u>Rs.298.624 Lakhs</u>

(Rupees Two Crores ninety eight lakhs sixty two thousand and four hundred only)

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

A. Subramanian,  
Chief Engineer/NCES.

\* \* \*

Vellore Region – Provision of One No.5 KV Digital Insulation Resistance Tester for 230 KV Singarapet Sub Station of Thiruvallam Operation Circle – Administrative Approval – Orders – Issued.

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(Technical Branch)

(Routine) CMD TANGEDCO Proceedings No.69. Dated the 17<sup>th</sup> July, 2015.  
Aadi 01, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. Chief Engineer/Vellore Region's Lr.No.1634/D.344/CE/D/  
VLR/MM/F.HQs./15-16/2015, dated 12.06.2015.
2. CMD/TANGEDCO's Note approval Dt.15.07.2015.

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**PROCEEDINGS:**

Approval is accorded for provision of **One No.5 KV Digital Insulation Resistance Tester** for 230 KV Singarapet Sub-Station in Thiruvallam Operation Circle of Vellore Region at a cost of **Rs.4,09,643/- (Rupees Four lakhs nine thousand six hundred and forty three only)** plus taxes as applicable.

(By Order of the Chairman - cum - Managing Director)

M. Asokan,  
Chief Engineer/Materials Management.

\* \* \*

TANGEDCO – Uppur Thermal Power Project – Land Acquisition/Alienation works by Revenue Department officials – Provision of one number non AC diesel driven Jeep/ Van exclusively for Revenue officials for Land Acquisition works of Uppur TPP - Administrative Approval – Accorded.

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(Technical Branch)

Per. (CMD) TANGEDCO Proceedings No.305. Dated the 22<sup>nd</sup> July, 2015.  
Aadi 06, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. CE/Projects Note approved by the CMD/TANGEDCO on 17.07.2015.

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**PROCEEDINGS:**

Approval is hereby accorded for providing one number non AC diesel driven Jeep/Van exclusively for Revenue officials of contract basis for Land Acquisition/ Alienation works of Uppur TPP for period upto 20.01.2016 for utilization of all the 3 Revenue Units functioning at Ramanathapuram with ceiling limit of Rs.26,000/- (Rupees Twenty six thousand only) per month.

(By Order of the Chairman - cum - Managing Director)

R. Kamaraj,  
Chief Engineer/Projects.

\* \* \*

TANGEDCO – Computerisation – Providing additional LAN network connectivity in 5A, 5B and MLDC Blocks – To incur an expenditure of Rs.1,00,000/- - Administrative Approval – Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.306. Dated the 23<sup>rd</sup> July, 2015.  
Aadi 07, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. CE/D/Chennai North Region Note approved by the CMD/TANGEDCO on 13.07.2015.

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**PROCEEDINGS:**

TANGEDCO, after careful consideration of the proposal of the Chief Engineer/ Distribution/Chennai North Region, hereby approves the following:

To accord sanction for incurring an expenditure of Rs.1,00,000/- (Rupees One Lakh only) towards the cost of providing additional LAN connectivity anticipated during the year 2015-2016 including the maintenance works on the LAN network connectivity, in 5A, 5B and MLDC Blocks in TNEB Headquarters campus.

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

T. Athavan,  
Chief Engineer/IT (I/c).

\* \* \*

TANGEDCO – IT Wing – Provision of Broadband internet connection to the office of the SE/Civil/Udangudi Project, Chennai and to the office of the EE/Civil/Udangudi Project, Tiruchendur - Approval – Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.307. Dated the 23<sup>rd</sup> July, 2015.  
Aadi 07, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

CMD Note approval dated 21.07.2015.

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**PROCEEDINGS:**

TANGEDCO after careful consideration of the proposal of the Chief Engineer/IT hereby approves the following:

1. To provide new BSNL broadband connection to the office of the SE/Civil/ Udangudi Project at second floor of new LD Quarters inside the TNEB Headquarters Complex, Chennai and to the office of the EE/Civil/Udangudi Project site, Tiruchendur under BSNL BBG Combo ULD 945 plan with unlimited download/upload limit, 2 Mbps upto 8 GB, 512 Kbps beyond 8 GB bandwidth and 1/1 MB of free E.mail IDs/space with the following expenditure:

- I) One time Expenditure : Rs.2,600/- (including Modem)  
 II) Annual Recurring Charges : Charges prevailing from time to time for the above BSNL Plan.

2. The above Broadband connections have to be continued until TANGEDCO's own fiber connectivity is established.

The above expenditure is debit to the account head "Revenue Expenditure No.76.117 (Internet Charges)".

(By Order of the Chairman - cum - Managing Director)

T. Athavan,  
 Chief Engineer/IT. (I/c.)

\* \* \*

TANGEDCO – Contract awarded to M/s.Tecpro Systems Ltd., for Establishment of additional Coal Conveying arrangement for 2x600 MW NCTPS Stage-II – Failure to complete the contract works – Show cause notice issued to contractor – Termination of the contract with M/s.Tecpro Systems Ltd., - Approved - Regarding.

(Technical Branch)

(Per.) FB TANGEDCO Proceedings No.40. Dated the 24<sup>th</sup> July, 2015.  
 Aadi 08, Sri Manmatha Varudam,  
 Thiruvalluvar Aandu 2046.

READ:

Item No.19 of the Extract from the Minutes of 57<sup>th</sup> Board meeting of TANGEDCO held on 17.07.2015.

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**PROCEEDINGS:**

Contract with the scope of work of "Design, engineering, manufacture, supply, testing at works, storage, erection, testing and commissioning of additional coal conveying arrangement to 2x600 MW of North Chennai Thermal Power Station Stage-II under single Engineering, Procurement and Construction (EPC) basis including all required Mechanical, Electrical, Civil/Structural, Control & Instrumentation, conducting performance guarantee tests and handing over after satisfactory performance guarantee tests for conveying crushed coal from ECHS stack yard to JT-1B of North Chennai Thermal Power Station has been awarded to M/s.Tecpro Systems Limited, Chennai with the completion time schedule of 12 months from the date of issue of

Letter of Acceptance dt.28.02.2011 i.e., 28.02.2012. The last extension of time upto 28.02.2015 was granted vide (Per.) CMD TANGEDCO Proceedings No.37, Dated 28.01.2015.

As M/s.Tecpro Systems Limited did not complete the work as per the scope of the contract even after allowing extension of time for 9 times upto 28.02.2015, the Chief Engineer/NCTPS Stage-II has recommended vide Lrs. dt.28.02.2015 & 06.04.2015 for termination of the contract entered with M/s. Tecpro Systems Limited under "as is where is condition" and to complete the balance work by engaging other agencies.

The proposal was submitted to the Board of TANGEDCO. The Board of Tamil Nadu Generation and Distribution Corporation Limited after careful consideration, has approved the following proposal.

i) To terminate the EPC contract awarded to M/s.Tecpro Systems Limited, Chennai, for carrying out design, engineering, assembly, testing at works, supply, storage, erection, testing and commissioning of additional coal conveying arrangement to 2x600 MW NCTPS Stage-II project against the Letter of Acceptance (LOA Ref.No.CE/ Proj/ SE/E/T&H(P)/EV/A1/ACHP/Spec.183/D.113/11, dated 28.02.11 and Letter of Intent (LOI) Ref.No. /Proj/ SE/E/T&H(P)/EV/A1/ACHP/Spec.183/D.205/11, dated 08.04.11, with "as is where is condition".

ii) To supply materials & carryout all balance works including commissioning of system through other agencies and recover the expenditure incurred in excess over contract value by debiting from retention amount.

iii) To withhold balance retention amount so as to recover maximum LD in addition to recover penalty if any to be imposed for not achieving the guaranteed conveying capacity of 2000 TPH.

iv) To invoke Bank Guarantees issued towards Performance Guarantee for Rs.3,57,50,000/- and Security Deposit for Rs.3,37,50,000/- and to remit the above proceeds to Board's account.

(By Order of the Board)

R. Kamaraj,  
Chief Engineer/Projects.

\* \* \*

TANGEDCO - Tuticorin TPS – ECHP II – Procurement of 3 Nos. of Fluid coupling Assembly SC 11A Model with Actuator for Conveyor 69, 70 & 71 A/B Drives under Single Tender Proprietary system of M/s.Fluidomat Ltd., Dewas, MP – Placing of orders - Approval – Accorded.

(Technical Branch)

(Per.) FB TANGEDCO Proceedings No.41.

Dated the 24<sup>th</sup> July, 2015.  
Aadi 08, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Extract of the Minutes of the 57<sup>th</sup> Board Meeting of  
TANGEDCO Ltd., held on.17.07.2015.

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**PROCEEDINGS:**

Approval is accorded for placing a Purchase Order on M/s.Fluidomat Ltd., Dewas, MP for supply fo 3 Nos. of Fluid Coupling Assembly Model SC 11A for Conveyor 69, 70 & 71 A / B Drives of ECHP II in TTPS for a total cost of Rs.63,74,512/- exclusive of Freight @ Actuals & Insurance by TANGEDCO under Single Tender/ proprietary basis/ Private sector by CE/T.T.P.S.

(By Order of the Board of TANGEDCO)

UL. Nagappan,  
Chief Engineer/Mech./Thermal Stations.

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Letter No. SE/RE&I(D)/EE/RE/A1/F.Doc/D522/15, (Tech.Br.) dated 25.07.2015.

Sub : Elecy. - Madurai region - Agriculture service application -  
Clarification - Regarding.

- Ref : 1) கடித எண். த.பொ/ப/மது/செ.பொ.மி/உ.செ.பொ1/தொ.நு/கோப்பு.137/  
அ.எண்.341/2015, நாள் 20.06.2015.
- 2) கடித எண். மே.பொ/ஊமிமமே(ப)/செ.பொ./ஊமி/உ.செ.பொ/கோப்பு./  
எண்.1644, (தொழில்நுட்பக்கிளை) நாள் 08.11.2006.
- 3) Lr. No. SE/RE&I( D)/EE/RE/A 1/F. Doc/D 1472/10  
dt. 23.10.2010.
- 4) Technical Branch per B.P(FB) No. 103 dt.22.07.2010.

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In the above ref (1) Cited, CE/D/Madurai has stated that in Madurai EDC the agriculture applications are registered for the applied land not less than 0.5 acres.

Now on representations of farmers CE/D/Madurai is seeking clarification whether to register agriculture applications having agriculture land area less than 0.5 acres in the applied SFNo.or adjacent lands owned by the applicant may also be considered for total land calculations to 0.5 acres.

From the instruction issued under ref(3), it is clear that minimum 0.5 acres of land is required only for effecting more than one service in the same well for co-owners and not needed for effecting services to single owner. As per B.P (F.B) No. 103 dt.22.07.2010 the agriculture applicant/Existing service has been permitted for transportation of water from one place to another place of the same owner. Some of the field officers are raising their doubts on this.

Hence under the above circumstances all CEs/D are requested to instruct their SEs/ EDC as follows:

i. Not to insist 0.5 acres minimum requirement of land for effecting an agriculture service to single owner. The single ownership should be supported by the computer patta only. Also the land should be an agriculture land and shall have agriculture activity with open/bore well and should not have any other type of service connection for sale of water etc.. Before registration of such applications received as per Form - 2 clause 27(2) of Tamil Nadu Electricity Distribution code, EE shall himself inspect and ensure genuineness before registration of applications.

ii. In case the computer patta shows more than one owner, then instructions already issued in CE/PLG&RC's Lr No.SE/RE&I(D)/EE/RE/A1/F.Doc/D.1472/10 dt.23.10.2010 "to effect more than one agriculture service in the same well to the

co-owners with the condition that minimum of 0.5 acre of land to be irrigated" is to be followed. Before registration of such applications received as per Form -2 clause 27(2) of Tamil Nadu Electricity Distribution code, EE shall ensure genuineness before registration of applications from the inspection report of AE/JE concerned.

As per Form -2 all owners must sign or give consent before VAO to register the application.

M.Pandi,  
Director/(Distribution) (I/c)

\* \* \*

Electricity – Chennai North Region - Chennai Operation Circle - Establishment of North Chennai 765/400KV GIS Pooling Station for evacuating the Power from various Thermal Generating Power Projects in North Chennai & Ennore area - Administrative Approval – Accorded.

(Technical Branch)

(Per).FB TANTRANSCO Proceedings No.64 Dated the 25<sup>th</sup> July 2015  
Aadi 9, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046

READ:

Item No.15 of the minutes of the 59<sup>th</sup> Board meeting of  
the TANTRANSCO Ltd held on 17.07.2015.

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**PROCEEDINGS:**

1. The Tamil Nadu Transmission Corporation Limited hereby approves the proposal of establishment of North Chennai 765/400KV GIS Pooling Station at Ennore with 3X1500MVA, 765/400KV ICTs & its associated Transmission Lines for evacuating the Power from various Thermal Generating Power Projects in North Chennai & Ennore area in Chennai Operation Circle of Chennai North Region at an estimated cost of Rs.2509.81 Crores (Gross) and Rs.2503.85 Crores (Nett). The detailed report and estimate are annexed to these proceedings.

2. The expenditure is chargeable to TANTRANSCO funds – Capital Expenditure - A/c code No14.505.

3. By virtue of the provisions contained in sub-section (2) (a) of section 185 of the Electricity Act 2003, the Tamil Nadu Transmission Corporation Ltd being the Transmission utility and successor entity of TNEB will exercise the powers of the Telegraph Authority under the provisions of section 164 of the Electricity Act, 2003, which have already been conferred upon the Board under section 51 of the Indian Electricity Act, 1910.

4. The work is to be taken up after ensuring necessary budget provision.

(By Order of the Board)

M.A. Helen,  
Chief Engineer/Planning & RC.

**REPORT TO ACCOMPANY THE ESTIMATE**

This proposal envisages establishment of North Chennai 765/400KV GIS Pooling Station at Ennore with 3X1500MVA, 765/400KV ICTs & its associated Transmission

Lines for evacuating the Power from various Thermal Generating Power Projects in North Chennai & Ennore area in Chennai Operation Circle of Chennai North Region at an estimated cost of Rs.2509.81 Crores (Gross) and Rs.2503.85 Crores (Nett).

**NEED:**

In Chennai the following power plants are proposed.

a) ETPS Expansion	-	1X660MW
b) Ennore SEZ (NCTPS Stage –IV)	-	2X660MW
c) NCTPS Stage III	-	1X800MW
d) ETPS Replacement	-	1X660MW
e) M/S.OPG Power Generation Pvt. Ltd, Gummidipoondi	-	2X360MW
<b>Total Capacity</b>	<b>-</b>	<b>4160MW</b>

In North Chennai & Ennore area, there are 8 numbers of 230KV feeders from the NCTPS I -3X210MW, 6 numbers of 400KV feeders from NCTPS II – 2X600MW and 4 numbers of 400KV feeders from Vallur JV -3X500MW are available apart from 3 numbers of 230KV feeders from ETPS. As the new projects are also proposed in the same vicinity, considering the right of way problem, common evacuation scheme has been finalised by establishing a 765/400KV pooling station by pooling all the above generators.

Further, it has been decided to export this power to Coimbatore region by establishing a 765/400KV substation in CBE with an anchoring of 765KV substation in Ariyalur (Villupuram). To cater the future load growth in Chennai region, 400KV DC line has been planned to be connected to Pulianthope 400/230KV substation from this Pooling Station. To avoid over loading of the 400KV line due to low impedance path, Phase Shifting Transformer is planned to control the power flow in the Pulianthope 400KV DC line.

Hence, this proposal for the establishment of North Chennai 765/400KV GIS Pooling Station with 765/400KV ICTs & its associated Transmission Lines for evacuating the power from the above plants has been evolved.

The administrative approval for the 400KV bay extension work for connectivity of 400KV DC line from M/S.OPG Power Generation Private Ltd on DCW basis and associated works will be obtained separately.

It is to be stated that the EPC contract for the ETPS Expansion – 1X660MW and Ennore SEZ -2X660MW projects have been awarded and the project works are under progress and it is expected to be commissioned by the year 2018. Further, it is to be stated that, the tender for awarding the EPC contract for North Chennai Super Critical Thermal Project Stage III – 1X800MW is expected to be floated shortly. So the ATS and Common Transmission System for the generation Projects should be in place before commissioning of the above generating units.

**LOAD FLOW STUDY:**

In the 37<sup>th</sup> Standing Committee Meeting on Power System Planning for Southern Region held on 22.09.2014 at New Delhi, the Associated Transmission System (ATS) and the following Common Transmission System for the Thermal Power Project in Chennai have been approved, based on the joint Load Flow study conducted at Gurgaon from 05-03-2014 to 07-03-2014 with CEA, PGCIL and TANGEDCO and further discussion by TANGEDCO with CEA on 11.06.2014.



**Common Transmission system for Generation Projects in Chennai area:**

**Establishment of 765/400KV Pooling Station in North Chennai area:**

- i) 3X1500MVA, 765/400KV ICTs at North Chennai Pooling station.
- ii) 765KV DC connectivity from North Chennai 765KV pooling station to the proposed Ariyalur 765/400KV SS with 240 MVAR, 765KV switchable line reactors in each line at both ends. Second 765KV DC connectivity from North Chennai pooling station to the proposed Ariyalur 765/400KV SS may be reviewed at a later date depending upon commissioning of the projects.
- iii) Rearranging the already sanctioned 400KV DC line from NCTPS stage II to Pulianthope as 400KV DC line from North Chennai pooling station to Pulianthope.
- iv) 500MVA, 400/400KV Phase Shifting transformer (PST) at the Pooling station to control the power flow on the Pooling station – Pulianthope 400KV DC line. PST to have the capability to control power flow in both the direction and provision to be made to bypass PST during maintenance if required.

**LAND AVAILABILITY :**

A land to an extent of 230x640mts near Ennore Thermal Power Station which is under possession of TANGEDCO has been identified for the proposed 765KV/400KV Pooling Station. Hence, in the available land to an extent of 40 acres approximately, and to protect the pooling station from coastal environment, the pooling station is proposed as an indoor Gas Insulated Switch gear Sub-Station.

**BRIEF DETAILS OF WORKS INVOLVED:**

**1. Establishment of 765/400KV GIS North Chennai Pooling Station:**

- a) Erection of 765KV GIS with 4 dia
  - i. 2 numbers of feeder bays for connecting Ariyalur 765KV DC feeders with line Reactors.
  - ii. 2 numbers for connecting NCTPS Stage III evacuation feeders.
  - iii. 3 numbers for the HV side of ICTs.
  - iv. 1 number spare bay.
- b) Erection of 500KV GIS with 6 dia
  - i. 2 numbers of feeder bays for connecting Pulianthope 400KV SS with Phase Shifting Transformer arrangement.
  - ii. 2 numbers of bays for connecting ETPS Expansion evacuation feeder.
  - iii. 2 numbers of bays for connecting ETPS SEZ evacuation feeder.
  - iv. 3 numbers for the LV side of ICTs.
  - v. 3 number spare bays.
- c) Erection of 765KV and 500KV auxiliary bus arrangement with disconnectors for the provision of 1 number single phase spare ICT for easy change over without physical shifting.
- d) Erection of 765/400KV, 1500MVA ICTs with Nitrogen fire quenching system and online gas and Tan Delta monitoring system. - 3 numbers
- e) Erection of 400/400 KV, 500 MVA, phase shifting transformers for 400KV Pulianthope I & II feeders to control the power flow. - 2 numbers

- f) Necessary provision is made in the estimate for SAS.
- g) All outdoor bushing for all 765KV level and 400KV level shall be polymer type as the location is pollution prone and in coastal environment.

## **2. Erection of 765KV/400KV Transmission Lines:**

- a) Erection of 765 KV DC line with Hexa zebra conductor from North Chennai Pooling station to Ariyalur 765 KV SS. – 190kM
- b) Erection of 400 KV DC line with Twin Moose conductor from North Chennai Pooling station to Pulianthope. – 22 KM
- c) Necessary provision is made in the estimate for Fibre Optic communication, OPGW cable has been included as OFC ground wire with accessories in the erection cost of 400/765 KV DC lines.
- d) As some of the existing 230/110KV lines are passing through the proposed land identified for the pooling station, those lines are required to be rerouted and hence provision has been made for dismantling the existing 230/110 KV lines and rerouting the lines with multi circuit towers.
- e) Dismantling the existing 230/110 KV lines and rerouting the lines with Multi circuit towers.
- f) The polymer type line insulators shall be provided in the 400KV/765KV lines up to crossing the pollution and coastal zone area.

## **3. Bay Extension at Ariyalur 765KV SS for terminating 765KV DC line from North Chennai Pooling station:**

- a) Bay Extension – 2 numbers
- b) Erection of 765KV, 240 MVAR line reactors (3X80MVAR single phase) for terminating North Chennai Pooling Station 765KV feeders. - 2 sets.

### **ESTIMATED COST:**

The cost of the estimate works out to Rs.2509.22 Crores (Gross) and Rs.2503.26 Crores (Nett). (Detailed estimate is annexed to the Board note).

The estimate is based on the details furnished by SE/CDC II. SE/CDC II has stated that

- i. The rates for 400KV DC line on DC tower and all other electrical items are based on the TANTRANSCO Cost data for the year 2014-2015 and 10% cost escalation is added for the year 2015-2016.
- ii. The cost of civil works is worked out based on plinth area rates for the year 2013-2014 with necessary escalation for the current year.
- iii. The rate for the 765KV DC line on DC tower, and 765/400KV ICTs are based on the rates sanctioned for Establishment of Ariyalur 765/400KV SS communicated vide B.P. No 91 dt. 7.11.2013 with the necessary escalation for the current year.
- iv. The rates for 765KV GIS, 765KV line reactors have been obtained from M/S.L&T.
- v. The rates for 400KV GIS portion have been adopted based on the rates sanctioned for Establishment of Guindy 400KV GIS communicated vide B.P.No.55 dt.25.10.2012.

vi. The rate for the Phase Shifting transformers is based on market rate.

vii. Provision has been made for bus bar enclosures and bus bar conductors for connecting the 500KV GIS up to SF6 to air termination instead of the 400KV cables for the following reasons ;

a) Cables are not adequate to handle ICT's LV current.

b) Utilization of spare transformer will be difficult if ICT and GIS are connected with cable.

Provision is made only for GIS portion for two Nos. 400 KV Spare feeders. While preparing the estimate for utilizing the spare feeders, the other requirements like Bus bar enclosures & bus bar conductors from GIS up to SF6 to Air termination, LAS and CVTs should be included.

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**DETAILED ESTIMATE FOR ESTABLISHMENT OF 765/400 KV GIS NORTH CHENNAI POOLING STATION AT ENNORE IN CHENNAI OPERATION CIRCLE**

SL.NO	DESCRIPTION	Gross Rate IN Lakhs	Nett Rate inLakhs
I.	" North Chennai Pooling Station - Civil works"(Annexure - 1)"	22623.49	22623.49
II.	North Chennai Pooling Station - Electrical works :	110507.48	110507.48
	"800 KV & 500KV GIS Equipments, 765/400KV ICTs, Phase Shifting Transformers (PSTs) Control & Relay panel, Communication Equipments, Station Auxiliaries & others. "(Annexure - 2)"		
III.	"Erection of 765kV/ 400kV Transmission Lines and 765KV Bay Extension at Ariyalur 765KV Substation including dismantling of existing 230/110KV lines & rerouting the lines due to establishment of 765/400KV pooling station. "(Annexure - 3)"	117849.77	117254.40
	TOTAL COST	250980.74	250385.37

Say Rs. 2509.81 Crores Gross & 2503.85 Crores Net

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**Annexure -1**

<b>DETAILED ESTIMATE FOR ESTABLISHMENT OF 765/400 KV GIS NORTH CHENNAI POOLING STATION AT ENNORE</b>		
<b>I. CIVIL ESTIMATE</b>		
SL NO	DESCRIPTION	TOTAL RS IN LAKHS
1	Land cost (Board's Land)	0.00
2	765KV GIS, 400KV GIS, & Control room including electrification, Compound wall, Equipment foundation, Structure plinths, BPT plinths, Fire partition wall for ICTs and Reactors,Public addressing system, Intercom,Furniture and Office Automation.	12304.00
3	AC Plant Room, Air handling Room & Ductable AC Control Room	84.00
4	Cable duct	811.04
5	Road	1179.25

6	Filling & levelling	7862.35
7	Earthing mat	62.39
8	DG set room, oil sump, water sump & Motors	57.21
9	Removal of Old structures	10.00
10	Sewage treatment Plant	37.43
11	Fire hydrant and mulsifyre system including sump.	87.34
12	Yard PCC & Blue metal	128.48
	Civil works - Total - I	22623.49

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**Annexure - 2**

**DETAILED ESTIMATE FOR ESTABLISHMENT OF 765/400 KV GIS NORTH CHENNAI POOLING STATION AT ENNORE WITH 3 Nos 1500 MVA,765/400 KV ICTs, 4 Nos 765 KV FEEDERS AND 8 Nos 400 KV FEEDERS INCLUDING 2 Nos SPARE IN CHENNAI OPERATION CIRCLE**

**II.ELECTRICAL WORKS**

Sl. No	DESCRIPTION	QTY.	RATE in Lakhs	PER	AMOUNT in Lakhs Rs.	TOTAL in Lakhs Rs
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>I</b>	<b>800 KV GIS PART:</b>					
<b>1</b>	<b>800 KV GIS Equipment</b>					
<b>a</b>	<b>Full Diameter - Feeders</b>					
	800kv SF6 GIS Indoor feeder bay provision with double bus , One & half breaker along with all the equipments.	2	2750.00	Set	5500.00	
<b>b</b>	<b>Full Diameter - Transformers</b>					
	800kv SF6 GIS Indoor Transformer bay provision with double bus , One & half breaker along with all the equipments with provision for CSD.(One spare transformer Bay)	2	2850.00	Set	5700.00	
<b>c</b>	800kv SF6 GIS Indoor bay provision with single bus, along with all the equipments and CSD for Line reactor.	2	916.00	set	1832.00	
<b>d</b>	800KV SF6 GIS auxiliary bus arrangement with disconnecter, earth switch and bus PT for the inclusion of spare ICT.	3	1000.00	set	3000.00	
<b>e</b>	800kv SF6 GIS Indoor bay provision with single bus, along with all the equipments for Bus section.	2	916.00	set	1832.00	
<b>f</b>	765kv Voltage Transformer with disconnecter assembly in separate chamber for bus section (Single Phase)(4 Buses*3 Nos)	12	150.00	Nos	1800.00	
<b>g</b>	765 KV single phase CVT with supporting structure	12	7.70	Nos	92.40	
<b>h</b>	800 KV Earth switch for bus I ,II, III and IV (HSES)	4	200.00	set	800.00	

(1)	(2)	(3)	(4)	(5)	(6)	(7)
i	624KV LAS with supporting structure for ICT's, OH feeders and reactors. (3ICT - 10, 2 Feeders-6 and 2Feeders with Line Reactor -12)	28	3.63	E	101.64	
j	120 KV LAS for line reactor NGR	2	0.24	E	0.48	
<b>2</b>	<b>800kv Bus bar and accessories for GIS to Air termination.</b>					
a.	Busbar enclosures from GIS up to SF6 to Air termination for Feeders including line reactors {(4 Feeders+ 2 Line Reactors) *3 phase*100 mtrs}	1800	2.50	Mtr	4500.00	
b.	Busbar conductors from GIS up to SF6 to Air termination for Feeders including line reactors	1800	0.50	Mtr	900.00	
c	Busbar enclosures up to SF6 to Air termination for ICTS. {( 3ICT*3Phase)+ 1 spare single phase ICT}* 55 Mtrs	550	2.50	Mtr	1375.00	
d	Busbar conductors for up to SF6 to Air termination for ICTS.	550	0.50	Mtr	275.00	
e	800 KV class-SF6 to air bushings including terminal connector. (3ICT -10, 2F-6 and 2F with LR-12).	28	34.20	E	957.60	
f	Supporting structure, Bus post type Insulators and Bus arrangements where ever necessary in 800KV side.	1		LS	250.00	
	<b>Sub Total I</b>				<b>28916.12</b>	<b>28916.12</b>
<b>II</b>	<b>500KV GIS Equipment</b>					
<b>1</b>	<b>500KV GIS PART:</b>					
<b>a</b>	<b>Full Diameter - Feeder</b>					
	500KV SF6 GIS Indoor feeder bay provision with double bus , One & half breaker along with all the equipments. (6 Feeders and 2 spare feeders)	4	2002.42	Set	8009.68	
<b>b</b>	<b>Full Diameter - Transformers</b>					
	500KV SF6 GIS Indoor Transformer bay provision with double bus , One & half breaker along with all the equipments and CSD. (3 ICT + 1 spare ICT)	2	1679.70	Set	3359.40	
<b>c</b>	<b>Full Diameter - PST</b>					
	500KV SF6 GIS Indoor bay provision with single bus , 2 Nos circuit breakers along with all the equipments for PST.	2	1120.00	Set	2240.00	
<b>d</b>	<b>500KV SF6 GIS auxillary bus arrangement with disconnecter,1 no single phase PT and earth switches for the inclusion of spare ICT.</b>	3	721.00	set	2163.00	

(1)	(2)	(3)	(4)	(5)	(6)	(7)
e	500KV SF6 GIS Indoor bay provision with single bus, along with all the equipments for Bus section.	2	667.33	set	1334.67	
f	400KV Voltage Transformer with disconnecter assembly in separate chamber for bus section. (Single Phase) (4 Buses*3 Nos.)	12	53.78	Nos	645.36	
g	400 KV single phase CVT with supporting structure	18	3.73	Nos	67.14	
h	500 KV Earth switch for bus I ,II, III and IV (HSES)	4	70.00	set	280.00	
i	390KV LAS with supporting structure for ICTs , OH #s & Reactors. (3 ICT -10, 4F - 12, 2F with PST - 18)	40	1.21	E	48.40	
<b>2</b>	<b>500kv Bus bar and accessories for GIS to Air termination</b>					
a	Busbar enclosures from GIS up to SF6 to Air termination for Feeders (6 Feeders*3 phase *100 mtrs)	1800	1.38	Mtr	2484.00	
b	Busbar conductors from GIS up to SF6 to Air termination for Feeders	1800	0.18	Mtr	324.00	
c	Busbar enclosures from GIS up to SF6 to Air termination for ICTS [{{(3 ICT* 3phase) + 1 No. Single phase ICT} + ( 2 Phase shifting Tr * 9)}] * 100 Mtrs	2800	1.38	Mtr	3864.00	
d	Busbar conductors from GIS up to SF6 to Air termination for ICTS	2800	0.18	Mtr	504.00	
e	500 KV class-SF6 to air bushings including terminal connector (4F-12, 2F with PST - 18,3ICT - 10).	40	24.70	E	988.00	
f	Supporting structure, Bus post type Insulators and Bus arrangements where ever necessary in 500KV side.	1		LS	250.00	
	<b>Sub Total II</b>				<b>26561.65</b>	<b>26561.65</b>
<b>III.</b>	<b>Control and Relay panel</b>					
1	AC Panel	2	7.00	E	14.00	
2	DC Panel	3	4.87	E	14.61	
3	Relay Panel for 765 KV feeder with U/F	1	10.42	E	10.42	
4	Relay panel for 765KV feeders without U/F	3	10.42	E	31.26	
5	Relay panel for ICTs (3 ICT+ 1 single phase spare)	4	10.00	E	40.00	
6	Relay panel for 765 KV tie breaker	4	7.00	E	28.00	
7	765KV bus bar protection Relay Panel	2	14.00	E	28.00	
8	765KV Relay panel for line reactors including NGR	2	10.00	E	20.00	
9	Relay panel for 765 KV Bus Coupler (for Bus section Breaker)	2	7.00	E	14.00	

(1)	(2)	(3)	(4)	(5)	(6)	(7)
10	Relay Panel for 400 KV feeder with U/F	1	10.48	E	10.48	
11	Relay panel for 400KV feeders without U/F (3 feeders + 2 spare feeders)	5	10.48	E	52.40	
12	Relay panel for 400KV feeders with Line differential protection (ETPS Expn- 1 & 2 feeders )	2	10.48	E	20.96	
13	Relay panel for 400 KV tie breaker	6	7.00	E	42.00	
14	400KV bus bar protection Relay Panel	2	14.00	E	28.00	
15	Relay panel for Phase Shifting Transformer	2	7.00	E	14.00	
16	Relay panel for 400 KV Bus Coupler (for Bus section Breaker)	2	7.00	E	14.00	
17	Synchronising panel	2	1.50	E	3.00	
18	Sub station Automation system - ( 765KV - 4 Dia - 12 nos, Line Reactor - 2 nos, Bus section - 2 nos, 400KV -6 dia -18 nos , Bus section - 2 nos, PST - 4 nos) - Total -40 Nos	40	8.00	Bay	320.00	
19	Control cable of different size & LT power cable including cable tray.			LS	200.00	
20	220V, DC, 535 AH Battery set with stand.	4	10.90	E	43.60	
21	220V, DC, 100A Battery Charger	6	4.29	E	25.74	
	<b>Sub Total III</b>				<b>974.47</b>	<b>974.47</b>
<b>IV.</b>	<b>Distribution Transformer &amp; DG set</b>					
1	500 KVA, 3 phase 11 /0.433KV Distr. Transformer with RMG & RMU arrangements including 11KV UG cable.	2	10.00	E	20.00	
2	11KV, 3x120sq mm UG cable Indoor terminations	18	0.05	E	0.90	
3	250KVA DG set with accessories and shelter	1	50.00	E	50.00	
	<b>Sub-Total IV</b>				<b>70.90</b>	<b>70.90</b>
<b>V.</b>	<b>COMMUNICATION EQUIPMENTS</b>					
1	Optical Line Terminal equipments	1	10.00	Nos	10.00	
2	Multiplexer with cross connectors	1	8.80	Nos	8.80	
3	Digital protection Coupler (8Command) with E1 interface.(4 Nos. 765 KV Feeders and 8 Nos. 400 KV Feeders)	24	2.20	Nos	52.80	
4	ADSS Cable	18	1.50	Km	27.00	
5	EPAX for PLCC system 48 Subscribers and 16 Trunks	1	4.24	Nos	4.24	
6	48V 600AH battery set with stand	2	2.50	Sets	5.00	
7	48V, 120A battery charger	3	1.05	Nos	3.15	
8	Telephone cables (4Pair)	2.5	0.17	Kms	0.43	
9	Telephone for CC	10	0.10	Nos	1.00	
10	<b>Sub Total V</b>				<b>112.42</b>	<b>112.42</b>

(1)	(2)	(3)	(4)	(5)	(6)	(7)
11	"Cost of Material and Equipments “(SUB-TOTAL I+II+III+IV+V)”					56635.55
12	Accessories at 3%					1699.07
13	Sub total					58334.62
14	Contingencies @ 1%					583.35
15	Sub total					58917.97
16	Labour and transport Charges @15 %					8837.70
<b>17</b>	<b>Cost of Material and Labour (A)</b>					<b>67755.66</b>
<b>VI.</b>	<b>765/400KV TRANSFORMERS</b>					
1	765/400KV, 3 x500MVA Single phase Interconnection transformer, OLTC with Nitrogen injection system, On line Gas monitoring system with Lap top and On line PD monitoring system.	10	2100.00	E	21000.00	
2	765KV; 3 x 80 MVAR Single phase line reactors with NGR, Nitrogen injection system, and On line Gas monitoring system for Line.	6	500.00	E	3000.00	
3	400/400KV; 500 MVA Phase shifting Transformer.	2	1500.00	E	3000.00	
4	Plinth, earthing & painting for ICTS, PSTS, Reactors.	20	10.00	E	200.00	
5	Rail arrangements	20	3.00	E	60.00	
	<b>Sub Total VI</b>				<b>27260.00</b>	<b>27260.00</b>
	TOTAL (A+VI)					95015.66
	Establishment & Supervision charges @ 15%					14252.35
	<b>TOTAL (B)</b>					<b>109268.01</b>
<b>VII.</b>	<b>OTHERS</b>					
1	Fire fighting Equipments.			LS	20.00	
2	Scientific Instrument Like Megger 5KV (Battery operated) , Multimeter etc.,			LS	5.00	
3	Circuit breaker Analysing kit (Multi break)	1	35.00	Nos	35.00	
4	Primary injection kit (2000A)	1	24.20	Nos	24.20	
5	Computerised relay testing kit with latest laptop computer, SFRA,CTPT Analysers	1	40.00	Set	40.00	
6	Tan (delta) tester	1	10.00	set	10.00	
7	PC & Software	1	1.00	Nos	1.00	
8	Optical power meter	1	1.00	Nos	1.00	
9	Optical source	1	1.00	Nos	1.00	
10	Optical Splicing Machine & Optical time Domain Reflectometer	1	5.00	Nos	5.00	
11	Time synchronising equipments	1	8.31	Nos	8.31	
12	Commissioning of SAS	40	0.20	Bay	8.00	
13	Cost of spares of SAS and Relay panels			LS	10.96	



(1)	(2)	(3)	(4)	(5)	(6)	(7)
14	765 KV Gantry arrangements for line feeders	4	30.00	No	120.00	
15	400 KV Gantry arrangements for line feeders	8	30.00	No	240.00	
16	On line Gas monitoring for GIS bays & Maintenance equipments for 765KV & 400KV GIS			LS	80.00	
17	EOT Crane arrangements (10Tons)	2	15.00	Sets	30.00	
	<b>Sub Total VII</b>				<b>639.47</b>	<b>639.47</b>
<b>VIII.</b>	<b>Station Auxiliaries</b>					
1	Illumination for yard.	1	30.00	set	30.00	
2	Tools & tackles for maintenance of 765KV & 500KV GIS equipments.			LS	30.00	
3	Mandatory accessories for 765KV and 500KV GIS SS	1		LS	75.00	
4	Mandatory spares for 765KV & 500KV GIS SS	1		Ls	50.00	
5	Earthing of equipments for 765KV & 500KV GIS SS			LS	5.00	
6	Air handling for GIS and Cable duct & Ventillation system			LS	100.00	
7	Lightning mast			LS	50.00	
8	High mast light			LS	75.00	
9	Fire alarm system			LS	75.00	
10	Air Conditioning			LS	100.00	
11	Solar power inverter			LS	10.00	
	<b>Sub Total VIII</b>				<b>600.00</b>	<b>600.00</b>
	<b>TOTAL (B + VII + VIII)</b>					<b>110507.48</b>

All outdoor bushing for all 765 KV level and 400 KV shall be Polymer type as the location is pollution prone and in Coastal Environment

### Annexure -3

DETAILED ESTIMATE FOR ESTABLISHMENT OF 765/400 KV GIS NORTH CHENNAI POOLING STATION AT ENNORE IN CHENNAI OPERATION CIRCLE						
<b>III. Transmission Lines</b>						
Sl. No	DESCRIPTION	QTY.	RATE in Lakhs	PER	AMOUNT in Lakhs	TOTAL Rs in Lakhs
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	765 KV DC line with Hexa zebra conductor from North Chennai Pooling station to Ariyalur 765 KV SS . (Rate is based on Ariyalur 765/400KV SS B.P No.91 dt. 7.11.13 @ 10 % escalation is added for 2 years)	190	540.00	Km	102600.00	102600.00
2	Rearranging the already sanctioned 400 KV DC line from NCTPS stage -II to Pulianthope as 400KV DC line from North Chennai Pooling station to Pulianthope (Annexure - 4)	22	256.85	Km	5650.70	5650.70

(1)	(2)	(3)	(4)	(5)	(6)	(7)
3	765 KV Bay provision at the sanctioned Ariyalur 765 KV SS (Annexure - 5)	2	3756.70	No	7513.39	7513.39
4	Erection of 230 KV 4 Circuits line on MC Tower with Zebra Conductor.	7	262.19	Km	1835.30	1835.30
	i) 230 KV ETPS-Tondairpet,					
	110 KV ETPS-Tondiarpet,					
	110 KV ETPS-Manali # 1 & 2	3.5		Km		
	ii. 230 KV ETPS-Manali					
	230 KV NCTPS I-Kilpauk					
	230 KV NCTPS I-Tondiarpet # 1 & 2	3.5		Km		
5	Erection of 110 KV DC line on DC Tower with Zebra Conductor. (ETPS - Manali feeder 1 & 2)	2	110.31	Km	220.62	220.62
	TOTAL					117820.01
	Dismantling charges including transportation					29.77
	Gross					117849.77
	Less credit					595.37
	Nett					117254.40

**Part I(A) DISMANTLING CHARGES TO A/C: 77 - 540****29.77****PART II ACCUMULATED DEPRECIATION CHARGEABLE TO DRF A/C NO:12-500**

Sl.No	Name of the item	Original cost	Total life	Life served	Accum. depre . (0.9 (Cl.3x Cl.5 / Cl.4))
	230 KV/110 KV LINE	595.37	35	48	535.840
	Total	595.37			535.84

**PART III****DEVOLUTION OF OLD EQUIPMENT TO STORES CHARGEABLE TO (Stock) A/C NO: 22.310**

$$\text{Part IV} - \text{Part II} = 595.37 - 535.84 = \mathbf{59.53}$$

**PART IV****REMOVAL OF OLD ASSET CHARGEABLE TO A/C NO: 16-100**

Rupees in lakhs

Sl. No	Description	Qty in kms	Original cost(50% of the Present value)**	Original erection charges 10%	Original centages 15%	Original cost of asset
1	110KV SC Line on SC Tower with Panther conductor.	4.59	103.86	10.39	17.14	131.38
2	110KV DC Line on DC Tower with Panther conductor.	0.85	32.71	3.27	5.40	41.38
3	230KV SC Line on SC Tower with Kundha conductor.	6.12	212.19	21.22	35.01	268.42
4	230KV DC Line on DC Tower with ZEBRA conductor.	2.21	121.89	12.19	20.11	154.19
	Total					595.37

\*\* As the rate for 230 KV SC line on SC tower with Kundha conductor is not available, the rate of 230 KV SC line on SC tower with Zebra conductor has been adopted

**ABSTRACT**

PART I - CHARGEABLE TO NEW ASSET ACCOUNTNO: 14-655	GROSS	117849.77
	NETT	117254.40
Part I(A) DISMANTLING CHARGES TO A/C: 77 - 540		29.77
PART II ACCUMULATED DEPRECIATION CHARGEABLE TO DRF A/C NO:12-500		535.84
PART III DEVOLUTION OF OLD EQUIPMENT TO STORES CHARGEABLE TO (Stock)A/C NO: 22-310		59.53
PART IV REMOVAL OF OLD ASSET CHARGEABLE TO A/C NO: 16-100		595.37

The polymer type line insulators shall be provided in the 400kV/765kV lines up to crossing the pollution and coastal zone area.

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**Annexure-4**

**COST DATA FOR 400 KV DC LINE ON DC TOWERS (WIND ZONE-5, TC-1)  
WITH TWIN MOOSE CONDUCTOR**

Sl. No.	Quantity		DESCRIPTION	Rate in Rs.	Per	Amount in Rs.
(1)	(2)		(4)	(5)	(6)	(7)
1			Galvanised steel tower materials with extension part wherever necessary, and bolts and nutsetc.,			
			164	MT		
	389.76	MT	a) HT Steel	83500	MT	3,25,45,118.65
	163.88	MT	b) MS	79500	MT	1,30,28,738.25
	18.567	MT	c) Ordinary Bolts & nuts	100000	MT	18,56,713.43
	2.2401	MT	d)Anti-theft bolts and nuts	150000	MT	3,36,011.94
2	2675	No.	120 KN Disc Insulators	530	No.	14,17,750.00
3	8226	No.	160 KN Disc Insulators	1000	No.	82,26,000.00
			Conductor & Earth wire accessories			
4	84	Set	Single I suspension string for Twin ACSR Moose	12000	Set	10,08,000.00
5	30	Set	Single I suspension pilot string with counter weight	41770	Set	12,53,100.00
6	168	Set	Double Tension string	19800	Set	33,26,400.00
7	672	Set	Vibration Damper for Twin ACSR Moose	2970	Set	19,95,840.00
8	252	Set	Rigid Spacer for conductor ACSR Moose 3 Nos. per jumper	1626	Set	4,09,752.00
9	50	Set	Midspan compression joint for Moose	1473	Set	73,650.00
10	50	No.	Repair sleeve for Moose	555	No.	27,750.00
11	14	Set	Suspension clamp for Earth wire 7/3.66mm	1078	Set	15,092.00
12	28	Set	Tension Clamp for Earth wire 7/3.66mm	1016	Set	28,448.00
13	6	Set	Midspan compression joint for GS Earth wire 7/3.66mm	386	Set	2,316.00

(1)	(2)		(4)	(5)	(6)	(7)
14	56	No.	Vibration Damper for Earth wire 7/3.66mm	588	Set	32,928.00
15	42	No.	Flexible copper bond for earthing	1323	No.	55,566.00
16	121.2	KM	ACSR Moose conductors 1.0% sag	371600	KM	4,50,37,920.00
17	10.15	KM	GS EARTH WIRE 7/3.66mm 1.50% sag	42672	KM	4,33,120.80
18	10.25	KM	OFC ground wire with accessories	289250	KM	29,64,812.50
			Earthing Materials			
19	25	No.	Pipe type earthing	1400	No.	35,000.00
20	3	No.	Counter poise earthing (120m length)	6170	No.	18,510.00
21			Tower Accessories			
22	28	No.	Number plate	250	No.	7,000.00
23	28	No.	Danger Board	400	No.	11,200.00
24	56	No.	Phase plate( Set of three)	600	No.	28,000.00
25	56	No.	Circuit plate	250	No.	14,000.00
26	28	No.	Anti-climbing devices	6600	No.	3,69,600.00
			TOWER FOUNDATIONS			
27	14	No.	DA type tower	486091	No.	68,05,274.00
			0° to 2° Suspension tower			
28	4	No.	DB type tower	879708	No.	35,18,832.00
			2° to 15° Light angle tower			
29	5	No.	DC type tower	1137823	No.	56,89,115.00
			15° to 30° Medium angle tower			
30	5	No.	DD type tower	1735499	No.	86,77,495.00
			30° to 60° High angle & Dead end tower			
31			Tower protection works			67,00,000.00
32			Total Cost of materials & equipments (adding Item 1 to 31)			14,59,49,053.57
			Rounding off to nearest thousand			14,59,49,000.00
33			Erection charges(10% on item 32) Rs.			1,45,94,900.00
						16,05,43,900.00
34	10	KM	Tree/Crop compensation	1000000	KM	1,00,00,000.00
35			Service Tax 4.944% on Foundation & Erection Charges (Adding item 27 to 31, item 33 & item 34)			79,37,290.00
36			Labour Welfare Fund 0.3% on Foundation & Erection Charges (Adding item 27 to 31, item 33 & item 34)			4,81,632.00
37			Transportation charges (5% on Item 32)			80,27,195.00
38			Insurance at 1%, Central & State Sales Tax at 4%-(Total 5% on Item 32)			80,27,195.00
39			Contingencies (5% on Item 32)			80,27,195.00
40			Total Cost of materials & labour (Add: Item No.32-39)			20,30,44,407.00

(1)	(2)	(4)	(5)	(6)	(7)
41		Establishment & Supervision Charges at 15.0% on item 40			3,04,56,661.00
42		TOTAL COST PER	10	KM	23,35,01,068.00
43		TOTAL COST PER 1 KM			2,33,50,106.80
		(Rounding to nearest 1000)	SAY (in Lakhs)		233.50
44		Add 10% Cost escalation for the year 2015 - 2016			23.35
45		TOTAL COST PER KM			256.85

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**Annexure-5**

**DETAILED ESTIMATE FOR 2 NOS 765 KV BAY EXTENSION WITH 2 NOS LINE REACTORS AT THE SANCTIONED ARIYALUR 765/400 KV SS FOR TERMINATING 765KV DC LINE FROM NORTH CHENNAI 765/400KV POOLING STATION**

Sl. No.	QTY	DESCRIPTION OF WORK	Rate in Lakhs	Per	Amount in Lakhs
(1)	(2)	(3)	(4)	(5)	(6)
1	5	765 KV, 3150A ,50 KA Outdoor SF6 Breaker with support structure (3 nos for 2 lines and 2 Nos for 2 line Reactors)	175.000	Set	875.000
2	24	765 KV,3150A, 50 KA, 5 core single phase current Transformer with support structure, accessories and Junction box. (1 No Junction box for 3CTs)	22.000	Each	528.000
3	12	624 KV Lightning arrester with support structure including for line reactor.	3.000	Each	36.000
4	6	765 KV single phase CVTwith support structure ( 1 No Junction box for 3CVTs)	7.000	Each	42.000
5	4	765 KV, 3150 A, 63KA Isolator with double earth and Insulator with support structure. (2Nos. For lines and 2Nos for line Reactors.)	24.000	Set	96.000
6	6	765 KV, 3150 A, 63 KA Isolator and single earth with Insulator with support structure.	18.000	Each	108.000
7		765 KV busbar, All types of power connectors, Tension fitting clamps, Insulators & hardwares		LS	350.000
8	2	765 KV feeder relay panel without UF relay	10.420	Each	20.840
9	1	765 KV Tie breaker panel for feeder	7.000	Each	7.000
10	2	765KV Relay panel for line reactors including NGR	10.000	Each	20.000
11	5	Sub station Automation system (5 bays)	8.000	Each	40.000
12		Control cable of different size & LT power cable including cable tray.		LS	150.000
13	4	"Digital protection Coupler "(8 Command)"	2.500	Each	10.000
14	3	ADSS Cable for 765 KV feeders	1.500	km	4.500
15		Fire fighting equipments	1.000	LS	1.000
16		Earthing and Sheilding	5.000	LS	5.000

(1)	(2)	(3)	(4)	(5)	(6)
17	3	Bay Marshalling Box	0.418	each	1.254
		Yard Lighting		LS	5.000
18		SUB TOTAL			2,299.594
19		Spares 3 %			68.988
20		Cost of equipments and materials			2,368.582
21		Erection charges at 10%			236.858
22		Transportation 5%, Insurance 1%, Central and State ST 5% TOTAL 11%			260.544
23		Contingencies 1%			23.686
24		TOTAL COST OF MATERIAL AND LABOUR			2,889.670
	6	765kV; 3 x 80 MVAR Single phase line reactors with Nitrogen injection system, and On line Gas monitoring system for Line.	500.00	No	3,000.000
	6	Plinth, earthing & painting for Reactors.	10.00	No	60.000
	6	Rail arrangements	3.00	No	18.000
25		Establishment (7.5%), T&P (1%), Loss on stock (0.25%), Audit & Accounts(1%), Maintenance during construction (1%) TOTAL (10.75%)			641.525
26		TOTAL			6,609.194
27		Civil works like Yard levelling, filling, lead road, foot path, fencing, foundation, cable duct including steel and pipe type earthing.			500.000
28	5	Commissioning of SAS	0.20	Bay	1.000
		765 KV Structure		LS	400.000
29		Material and Labour cost for necessary 765 KV Bus bar protection modification works		LS	2.200
30		Integration of 5 Nos 765 KV Relay panels with SAS		LS	1.000
31		Over all cost for 2 Bays			7,513.394

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\* \* \*

Electricity – Establishment of Neyveli 230/110 KV SS at Neyveli New Thermal Power Station premises- Administrative Approval – Accorded.

(Technical Branch)

(Per).FB TANTRANSCO Proceedings No.65 Dated the 25<sup>th</sup> July 2015.  
Aadi 9, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Item No.14 of the minutes of the 59<sup>th</sup> Board meeting of the TANTRANSCO Ltd held on 17.07.2015.

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**PROCEEDINGS:**

1. The Tamil Nadu Transmission Corporation Limited hereby approves the proposal for the establishment of Neyveli 230/110 KV SS with 3x160 MVA,

230/110 KV Auto transformers at Neyveli New Thermal Power station premises in Villupuram Region at an estimated cost of Rs.10110.23 Lakhs (Gross) and Rs. 9862.30 Lakhs (Nett). The detailed report and estimate are annexed to these proceedings.

2. The expenditure is chargeable to TANTRANSCO funds – Capital Expenditure-Villupuram Operation Circle - A/c code No14.525.

3. By virtue of the provisions contained in sub-section (2) (a) of section 185 of the Electricity Act 2003, the Tamil Nadu Transmission Corporation Ltd being the Transmission utility and successor entity of TNEB will exercise the powers of the Telegraph Authority under the provisions of section 164 of the Electricity Act, 2003, which have already been conferred upon the Board under section 51 of the Indian Electricity Act, 1910.

4. The work is to be taken up after ensuring necessary budget provision.

(By Order of the Board)

M.A. Helen,  
Chief Engineer/Planning & RC.

### **REPORT TO ACCOMPANY THE ESTIMATE**

This proposal envisages establishment of Neyveli 230/110 KV SS with 3x160 MVA, 230/110 KV Auto transformers at Neyveli New Thermal Power station premises in Villupuram Region at an estimated cost at an estimated cost of Rs. 10110.23 lakhs (Gross) and Rs. 9862.30 Lakhs (Nett).

#### **NEED:**

In the 35<sup>th</sup> and 36<sup>th</sup> Standing Committee Meeting on Power System Planning for Southern Region held on 04.01.2013 at Gurgaon, and on 04.09.2013 at New Delhi respy., the following schemes have been approved under System Strengthening scheme in Tamil Nadu which are to be carried out by TNEB:

i) Establishment of new 230/110 KV substation with 3x160 MVA or 4x100 MVA auto transformer capacity at Neyveli

ii) Shifting of the 230 KV (3 nos) and 110 KV (7 nos) lines owned by TNEB emanating from the existing Neyveli TS-I switchyard to Neyveli 230 KV SS

iii) 230 KV DC line with HTLS conductor between NNTPS switchyard and Neyveli TANTRANSCO 230 kV SS

iv) 230 KV DC line also with HTLS conductor between Neyveli TPS-II and Neyveli TANTRANSCO 230 KV SS

Hence, the proposal for establishment of 230/110 KV SS at Neyveli New Thermal Power station incorporating the above schemes along with other 230 KV and 110 KV schemes has been evolved.

#### **LOAD FLOW STUDY:**

The transmission system for evacuation of power from NNTPS was evolved during joint meeting held by TNEB, CEA and M/s PGCIL on 14-5-12 based on the decision taken by joint study group consisting of NLC, TNEB, Power Grid and CEA. The following schemes were finalised by TANTRANSCO on analyzing various options and as agreed by NLC :

- i) Establishment of new 230/110 KV substation with 3x160 MVA or 4x100 MVA auto transformer capacity at Neyveli.
- ii) Shifting of 230 KV (3 nos) and 110 KV (7 nos) lines owned by TANTRANSCO emanating from the existing Neyveli TS-I switchyard to Neyveli 230 KV SS
- iii) 230 KV DC line with HTLS conductor between NNTPS switchyard and Neyveli 230 KV SS
- iv) 230 KV DC line with HTLS conductor between Neyveli TPS-II – Neyveli 230 KV SS.

## **DETAILS OF SCHEMES PROPOSED**

### **Auto transformers**

It is proposed to install 3x160 MVA, 230/110 KV auto transformers at the proposed Neyveli 230 KV SS.

### **Transmission schemes**

The following transmission schemes are suggested based on the load flow studies for the proposed establishment of Neyveli 230 KV SS.

#### **230 KV Transmission Lines:**

- i) NNTPS switchyard - Neyveli 230/110 KV SS - 230 KV DC line with twin moose conductor.
- ii) Neyveli TPS-II - Neyveli 230/110 KV SS - 230 KV DC line with twin moose conductor
- iii) Shifting of 3 nos. 230 KV lines owned by TANTRANSCO emanating from the existing Neyveli TS-I switchyard to Neyveli 230 KV SS :
  - a. Neyveli 230 KV SS – Existing 230 KV Eachengadu SS – 230 KV SC line.
  - b. Neyveli 230 KV SS – Existing 230 KV Cuddalore and Thiruvannamalai substations -230 KV DC line.

Instead of the already proposed HTLS conductor, Twin moose conductor has been preferred. Since DC line with twin moose conductor could not be accommodated in 230 KV DC towers , DC line with twin moose conductor on 400 KV DC tower has been considered.

Provision has been made for erection of OPGW cable from Neyveli 230 KV SS to Thiruvannamalai 230 KV SS and Eachengadu 230 KV SS.

#### **110 KV Transmission Lines:**

- i) Shifting of 7 nos. 110 KV lines owned by TANTRANSCO emanating from the existing Neyveli TS-I switchyard to Neyveli 230 KV SS:
  - a. Deviakurichi I&II and Aduthurai feeders on multi circuit tower (3 circuits)
  - b. Villupuram feeder I&II, Panruti and Vadakuthu line on multi circuit tower (4 circuits)

## **BRIEF DETAILS OF WORKS INVOLVED**

1. Establishment of 230/110 KV SS at Neyveli with 3x160 MVA auto transformers with associated switchgears and accessories.
2. Erection of 230 KV DC line with Twin Moose conductor from NNTPS switchyard to the proposed Neyveli 230 KV SS for a distance of 3 km.



3. Erection of 230 KV DC line with Twin Moose conductor from Neyveli TPS-II to the proposed Neyveli 230 KV SS for a distance of 1 km .

4. Erection of 230 KV DC line with zebra conductor on DC tower from the Neyveli 230 KV SS to the existing 230 KV Cuddalore and Thiruvannamalai common point of link for a distance of 4.5 km .

5. Erection of 230 KV SC line with zebra conductor on DC tower from the Neyveli 230 KV SS to the existing 230 KV Eachengadu common point of link for a distance of 1 km.

### 110 KV Transmission Lines:

Erection of following 110 KV link lines with panther conductor by shifting of 7 nos. 110 KV lines owned by TANTRANSCO emanating from the existing Neyveli TS-I switchyard to Neyveli New 230 KV SS in multi circuit towers:

1. Erection of 3 numbers of 110 KV lines to Deviakurichi I&II and Aduthurai feeders in multi circuit tower for a distance of 1.5 km up to the common point of link.

2. Erection of 4 numbers of 110 KV lines to Villupuram I & II, Panruti and Vadakuthu in multi circuit tower for a distance of 4 km up to the common point of link.

### LAND AVAILABILITY

It has been agreed by NLC to allot necessary land on lease with incremental lease rent for every three years. The expenditure on lease rent for 30 years has been estimated by GCC wing as Rs. 150 Lakhs approximately.

### ESTIMATED COST

The cost of the estimate works out to Rs. 10110.23 Lakhs (Gross) and Rs. 9862.30 Lakhs (Nett) (Detailed estimate is annexed). Estimate is prepared based on the available TANTRANSCO cost data for the year 2014-2015. Hence 10% cost escalation has been provided for the year 2015-2016. For civil works, the rate furnished by the field and the previous sanctioned rate is adopted. The rates and quantities furnished by the field are adopted for the items in Annexures 1-5.

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DETAILED ESTIMATE FOR ESTABLISHMENT OF 230/110 KV SS AT NEYVELI WITH 3X160 MVA, 230/110 KV AUTO TRANSFORMERS, 9 Nos. 230 KV FEEDERS INCLUDING 2 SPARE, 9 Nos. 110 KV FEEDERS INCLUDING 2 SPARE						
Sl. No	DESCRIPTION	QTY.	UNIT	RATE (Rs. in Lakhs)	PER	AMOUNT Rs. in Lakhs
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>I</b>	<b>ELECTRICAL WORKS</b>					
1	230 KV SF6 Breakers 40 KA (7 feeders + 2 spare+ 3 HV +1BC)	13	Nos	13.294	E	172.822
2	230 KV Isolator with earth	9	Nos	3.510	E	31.590
3	230 KV Isolator without earth	53	Nos	3.220	E	170.660
4	230 KV PT (single phase) with jn box	6	Nos	2.530	E	15.180
5	230 KV CT (single phase) with jn box	39	Nos	2.562	E	99.918

(1)	(2)	(3)	(4)	(5)	(6)	(7)
6	230 KV CVT with Structures	27	Nos	2.459	E	66.393
7	230 KV lightning Arresters	36	nos	0.464	E	16.704
8	110 KV SF6 Circuit Breakers (7fdrs+ 2spare+3LV + 1BC)	13	Nos	5.648	E	73.424
9	110 KV Isolator with earth	9	Nos	2.230	E	20.070
10	110 KV Isolator without earth	53	Nos	2.090	E	110.770
11	110 KV CT (single phase) with jn box	39	Nos	1.195	E	46.605
12	110 KV PT with jn box	6	Nos	0.934	E	5.604
13	110 KV lightning Arrestors	36	Nos	0.238	E	8.568
14	110 KV CVT with Structures	9	Nos	1.653	E	14.877
15	220V, 300 AH Battery sets	2	Set	7.259	Set	14.518
16	220 V, 60 A, chargers	3	Set	4.296	Set	12.888
17	<b>Control and relay panel</b>					
18	Relay panel for 230/110 KV Auto Tr	3	Nos	14.732	E	44.196
19	Relay panel for 230 KV feeders with U/F Relay	1	No	12.767	E	12.767
20	Relay panel for 230 KV feeders without U/F Relay	4	No	12.178	E	48.712
21	Relay panel for 230 KV feeders with line differential protection.	4	No	12.178	E	48.712
22	230 KV bus bar protection relay panel	1	No	19.642	E	19.642
23	230 KV bus coupler Relay panel	1	No	5.402	E	5.402
24	110 KV Feeder relay panel with U/F Relay	1	Nos	9.232	E	9.232
25	110 KV Feeder relay panel	8	Nos	8.643	E	69.144
26	110 KV bus coupler panel	1	No	5.205	E	5.205
27	110 KV Bus bar protection panel	1	No	19.642	E	19.642
28	Marshalling Box	2	Nos	0.611	E	1.222
29	Synchronising Panel	2	Set	0.440	LS	0.880
30	AC panel for 230 KV SS	2	Set	1.189	Set	2.378
31	220 V DC Distribution panel	3	Set	1.205	Set	3.615
32	Sub Station Automation system 26bays	26	bays	4.750	bay	123.500
33	SUB TOTAL					1294.840
34	Accessories at 3%					38.845
35	Control cables of assorted size				LS	120.000
36	Auxillary panel and interconnecting cables				LS	15.000
37	Earthing, Yard lighting and painting				LS	50.000
38	250 KVA, 11KV/433 V station transformer with structure	2	no	3.305	E	6.610
39	DG set 75 KVA with accessories	1	No	9.670	E	9.670
40	Clamps and connectors				LS	5.000
41	Conductors, Busbars & Insulators				LS	30.000
42	Fire fighting equipments	1	lot	5.000	lot	5.000
43	Scientific instruments	2	lot	2.500	lot	5.000

(1)	(2)	(3)	(4)	(5)	(6)	(7)
44	P&T Phone		lot	0.200	lot	0.200
45	Plinth for Breakers	26	loc	0.500	loc	13.000
46	Cost of materials					1593.165
47	10% cost escalation for the year 2015 - 2016					159.317
48	Total cost of material					1752.482
49	Contingencies 1%					17.525
50	SUB TOTAL					1770.007
51	Labour and Transport charges at 15%					265.501
52	Cost of materials and labour					2035.508
53	<b>TRANSFORMERS</b>					
54	160 MVA, 230/110 KV Auto Transformer with OLTC	3	Nos	600.000	E	1800.000
55	Plinth, labour & Transport for Trs.	3	loc	4.400	loc	13.200
56	Transformer rail tracks	3	loc	2.000	loc	6.000
57	Earthing	3	loc	0.550	loc	1.650
58	Sub Total					3856.358
59	Estt. and Supervision charges at 15%					578.454
60	Cost of materials and labour					4434.811
61	<b>Sub Total-I</b>					<b>4434.811</b>
62	<b>Communication Equipments</b>					
63	Digital Protection Coupler (8command) with E1 interface(9 nos for 230 KV feeders, 1no. for Tiruvannamalai SS end and 1 no. for Eachangadu SS end )	11	Nos	2.070	E	22.770
64	EPAX for PLCC system for 48 subscribes & 16 Trunks	1	no	3.850	E	3.850
65	48 V/400 AH Battery system	2	nos	1.240	no	2.480
66	48 V/80 A Battery chargers	3	nos	0.977	no	2.931
67	Optic line terminal equipments (OLTE)(one for Tiruvannamalai SS end, one for Eachangadu SS end and one for this SS)	3	nos	6.500	no	19.500
68	Multiplexers with cross connectors (one for this SS, one for Tiruvannamalai SS and another one for Eachengadu SS)	3	no	8.800	E	26.400
69	ADSS Cable for (2 nos for Tiruvannamalai and Eachengadu 230 KV feeders at this SS end, 1 no for Tiruvannamalai SS end and 1 no. for Eachengadu SS end (4*1.5km))	6	kms	1.650	km	9.90
70	OPGW 24 Fibre DWDM cable, Accessories with line erection, (Neyveli 230 KV SS to Eachengadu 230 KV SS - 50 kms & Neyveli 230 KV SS to Tiruvannamalai 230 KV SS -102 Kms)	152	kms	2.915	km	443.08
71	Telephone Cable (4pair)	1.5	kms	0.173	km	0.26
72	Telephone for CC	6	nos	0.010	no	0.06
73	Commissioning of SAS	28	bays	0.200	bay	5.600

(1)	(2)	(3)	(4)	(5)	(6)	(7)
74	Cost of spare for SAS(Annexure-6)					6.903
75	<b>Sub Total-II</b>					<b>543.734</b>
76	<b>STRUCTURES</b>					
77	230 KV structure	2	Nos	247.2921	E	494.584
78	110 KV structure	2	Nos	70.2086	E	140.417
79	<b>Sub Total-III</b>					<b>635.001</b>
80	<b>TRANSMISSION LINES ERECTION</b>					
81	Erection of 230 KV DC Line on DC tower with Twin Moose conductor including OPGW Cable from NNTPS to the Proposed Neyveli 230/110 KV SS (Annexure-1)	3	kms	246.075	km	738.225
82	Erection of 230 KV DC Line on DC tower with Twin Moose conductor including OPGW cable from Neyveli TS-II to the Proposed Neyveli 230/110 KV SS (Annexure-1)	1	km	246.075	km	246.075
83	Erection of 230 KV SC Line on DC tower with Zebra conductor from the Proposed Neyveli 230/110 KV SS to the existing Eachangadu feeder (Annexure-3)	1	km	94.097	km	94.097
84	Erection of 230 KV DC Line on DC tower with Zebra conductor from the Proposed Neyveli 230/110 KV SS to the existing Tiruvannamalai and Cuddalore feeders (Annexure-2).	4.5	kms	112.471	km	506.122
85	Erection of 110 KV three circuit Line on (230 KV) MC tower with Panther conductor from the Proposed Neyveli 230/110 KV SS to connect the existing Aduthurai feeder and Deviakurchi Feeders I & II (Annexure-4)	1.5	km	216.189	km	324.284
86	Erection of 110 KV four circuit Line on(230 KV) MC tower with Panther conductor from the Proposed Neyveli 230/110 KV SS to connect the existing Panruti feeder, Vadakuttu feeder and Villupuram Feeders I & II (Annexure-5)	4	kms	227.370	km	909.482
87	<b>Sub Total-IV</b>					<b>2818.283</b>
88	<b>CIVIL WORKS</b>					
89	Land Cost (Lease rent approx)					150.000
90	Control room building with internal electrification, bore well and Septic tank					247.000
91	Diesel Generator plinth in open yard					1.000
92	Compound wall					130.000
93	Plinths for Breaker, RCC retaining wall, cable duct, filling the yard with gravel and allied civil works					988.000
94	Road, drain and sump					150.000
95	<b>Sub Total-V</b>					<b>1666.000</b>

(1)	(2)	(3)	(4)	(5)	(6)	(7)
96	<b>TOTAL FOR WORKS (G&amp;N) (Sub Total I+II+III+IV+V)</b>					<b>10097.829</b>
97	Dismantling charges including transportation					12.396
98	<b>Gross</b>					<b>10110.23</b>
99	Less credit					247.92
100	<b>Nett</b>					<b>9862.30</b>

Part I(A) DISMANTLING CHARGES TO A/C: 77 - 540

12.396

**PART II ACCUMULATED DEPRECIATION CHARGEABLE TO DRF A/C NO:12-500**

Sl.No	Name of the item	Original cost	Total life	Life served	Accum. depre (.0.9 (Cl.3x Cl.5 / Cl.4))
1	230 KV SC Line on SC tower of TS-I - Eachengadu feeder at Neyveli	19.936	35	53	17.940
2	230 KV DC Line on DC tower of TS-I - Thiruvannamalai & TS I-Cuddalore feeders at Neyveli	17.776	35	51	16.000
3	110 KV DC Line on DC tower of TS-I - Deviakurichi feeder at Neyveli	88.512	35	53	79.660
4	110 KV SC Line on DC tower of TS-I - Aduthurai feeder at Neyveli	77.443	35	8	15.930
5	110 KV DC Line on DC tower of Villupuram feeder I&II at Neyveli	22.128	35	8	4.550
6	110 KV DC Line on DC tower of Vadakutthu and pantruti at Neyveli	22.128	35	8	4.550
	Total	247.924			138.630

PART III

**DEVOLUTION OF OLD EQUIPMENT TO STORES CHARGEABLE TO (Stock) A/C NO: 22.310**

Part IV - Part II = 247.92 - 138.63 = **109.29**

PART IV

**REMOVAL OF OLD ASSET CHARGEABLE TO A/C NO: 16-100**

Rupees in lakhs

Sl. No	Description	Qty in kms	Original cost(50% of the Present value)**	Original erection charges 10%	Original centages 15%	Original cost of asset
1	230 KV SC Line on SC tower of TS-I - Eachengadu feeder at Neyveli **	0.5	15.76	1.58	2.60	19.936
2	230 KV DC Line on DC tower of TS-I - Thiruvannamalai and TS-I - Cuddalore feeders at Neyveli	0.25	14.05	1.41	2.32	17.776
3	110 KV DC Line on DC tower of TS-I - Deviakurichi feeder at Neyveli	2.0	69.97	7.00	11.55	88.512

4	110 KV SC Line on DC tower of TS-I - Aduthurai feeder at Neyveli	2.0	61.22	6.12	10.10	77.443
5	110 KV DC Line on DC tower of TS-I - Villupuram feeders I&II at Neyveli	0.5	17.49	1.75	2.89	22.128
6	110 KV DC Line on DC tower of TS-I - Vadakutthu and Panruti at Neyveli	0.5	17.49	1.75	2.89	22.128
	Total					247.924

\*\* As the rate for 230 KV SC line on SC tower with Kundha conductor is not available, the rate of 230 KV SC line on SC tower with Zebra conductor has been adopted

### **ABSTRACT**

Rupees in lakhs.

<b>PART I CHARGEABLE TO NEW ASSET ACCOUNT NO: 14-655</b>	<b>GROSS</b>	<b>10110.23</b>
	<b>NETT</b>	<b>9862.30</b>
<b>Part I(A) DISMANTLING CHARGES TO A/C: 77 - 540</b>		<b>12.396</b>
<b>PART II ACCUMULATED DEPRECIATION CHARGEABLE TO DRF A/C NO:12-500</b>		<b>138.63</b>
<b>PART III DEVOLUTION OF OLD EQUIPMENT TO STORES CHARGEABLE TO (Stock)A/C NO: 22-310</b>		<b>109.29</b>
<b>PART IV REMOVAL OF OLD ASSET CHARGEABLE TO A/C NO: 16-100</b>		<b>247.92</b>

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### **ANNEXURE - 1**

#### COST DATA FOR 230 KV DC LINE ON DC TOWER WITH TWIN MOOSE CONDUCTOR

Sl. No.	Quantity	Unit	DESCRIPTION	Rate in Rs.	Per	Amount in Rs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1			<b>Galvanised steel tower materials with extension part wherever necessary, and bolts and nutsetc.,</b>			
a	389.76	MT	a) HT Steel	83500	MT	32544960
b	163.88	MT	b) MS	79500	MT	13028460
c	18.57	MT	c) Ordinary Bolts & nuts	100000	MT	1857000
d	2.24	MT	d)Anti-theft bolts and nuts	150000	MT	336000
2	2675	No.	120 KN Disc Insulators	691	No.	1848425
3	8226	No.	160 KN Disc Insulators	1050	No.	8637300
			<b>Conductor &amp; Earth wire accessories</b>			
4	84	Set	Twin I suspension string for Twin ACSR Moose	12000	Set	1008000
5	30	Set	Single I suspension pilot string with counter weight	41770	Set	1253100
6	168	Set	Double Tension string	19800	Set	3326400
7	672	Set	Vibration Damper for Twin ACSR Moose	2970	Set	1995840
8	252	Set	Rigid Spacer for conductor ACSR Moose 3 Nos. per jumper	1626	Set	409752

(1)	(2)	(3)	(4)	(5)	(6)	(7)
9	50	Set	Midspan compression joint for Moose	1547	Set	77350
10	50	No.	Repair sleeve for Moose	583	No.	29150
11	14	Set	Suspension clamp for Earth wire 7/3.66mm	1132	Set	15848
12	28	Set	Tension Clamp for Earth wire 7/3.66mm	1067	Set	29876
13	6	Set	Midspan compression joint for GS Earth wire 7/3.66mm	405	Set	2430
14	56	No.	Vibration Damper for Earth wire 7/3.66mm	617	Set	34552
15	42	No.	Flexible copper bond for earthing	1389	No.	58338
16	121.2	KM	ACSR Moose conductors 1.0% sag	389655	KM	47226186
17	10.15	KM	GI EARTH WIRE 7/3.66mm 1.5% sag	44800	KM	454720
18	10.25	KM	OFC ground wire with accessories with 2.5% extra	303710	KM	3113027.5
			<b>Earthing Materials</b>			
19	25	No.	Pipe type earthing	1400	No.	35000
20	3	No.	Counter poise earthing (120m length)	6130	No.	18390
			<b>Tower Accessories</b>			
21	28	No.	Number plate	262	No.	7336
22	28	No.	Danger Board	420	No.	11760
23	56	No.	Phase plate( Set of three)	630	No.	35280
24	56	No.	Circuit plate	262	No.	14672
25	28	No.	Anti-climbing devices	6930	No.	194040
			<b>TOWER FOUNDATIONS</b>			
26	14	No.	DA type tower	486091	No.	6805274
			0° to 2° Suspension tower			
27	4	No.	DB type tower	879708.00	No.	3518832
			2° to 15° Light angle tower			
28	5	No.	DC type tower	1137823.00	No.	5689115
			15° to 30° Medium angle tower			
29	5	No.	DD type tower	1735499.00	No.	8677495
			30° to 60° High angle & Dead end tower			
30			Tower protection works			6700000
31			Total Cost of materials & equipments			148993909
			(adding Item 1 to 30)			
			Rounding off to nearest thousand			148994000
32			Erection charges(10% on item 31)			14899400
						163893400
33	10	KM	Tree/Crop compensation	1000000	KM	10000000
34			Service Tax 4.944% on Foundation & Erection Charges			2289000
			(Adding item 26 to 30 & item 32)			
35			Labour Welfare Fund 1.0% on Foundation & Erection Charges			463000
			(Adding item 26 to 30 & item 32)			

(1)	(2)	(3)	(4)	(5)	(6)	(7)
36			Transportation charges (5% on Item 31)			7450000
37			Insurance at 1%, Central & State Sales Tax at 5%-(Total 6% on Item 31)			8940000
38			Contingencies (1% on Item 31)			1490000
39			Total Cost of materials & labour (Add: Item No.31-38)			194525400
41			Establishment & Supervision Charges at 15.0% on item 39			29179000
42			TOTAL COST PER	10	KM	223704400
			TOTAL COST PER 1 KM			22370440
			(Rounding to nearest 1000)	SAY	223.70	LAKHS
			10% Escalation for the year 2015-16		22.37044	LAKHS
			<b>TOTAL COST PER 1 KM</b>		<b>246.07</b>	<b>LAKHS</b>

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**ANNEXURE-2**

COST DATA FOR 230 KV D.C LINE ON D.C Towers with Zebra CONDUCTOR (Rate as per Cost Data for the year 2014-2015)

Sl. No.	Qty	Unit	DESCRIPTION	Rate in Rs.	Per	Amount in Rs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1			<b>Galvanised steel tower materials with extension part wherever necessary, and bolts and nuts etc.,</b>			
a	338.40	MT	a. MS 100%	79500.00	MT	26902800.00
b	18.23	MT	b. Ordinary Bolts & nuts	100000.00	MT	1823000.00
2	2546.00	No.	90 KN Disc Insulators	542.00	No.	1379932.00
3	3424.00	No.	120 KN Disc Insulators	691.00	No.	2365984.00
			<b>Conductor &amp; Earth wire accessories</b>			
4	108	Set	Single Suspension fittings for ACSR Zebra	3580.00	Set	386640.00
5	81	Set	Single Suspension fitting for Jumpering	3580.00	Set	289980.00
6	204	Set	Single Tension fittings for ACSR Zebra	2793.00	Set	569772.00
7	24	Set	Double Tension Fittings for Zebra	4042.00	Set	97008.00
8	228	Set	Vibration Damper for Zebra	1365.00	Set	311220.00
9	60	Set	Mid span comp.joint for ACSR ZEBRA	866.00	Set	51960.00
10	30	Set	Repair sleeve for ACSR ZEBRA	368.00	No.	11040.00
11	18	Set	Suspension clamp for Earth wire 7/3.15mm	430.00	Set	7740.00
12	38	Set	Tension Clamp for Earth wire 7/3.55mm	357.00	Set	13566.00
13	114	Set	Mid span comp.joint for GS Earth wire 7/3.55mm 0.3 No. per 1 KM RL	200.00	Set	22800.00
14	56	Set	Alu.earthbond	200.00	No.	11200.00
15	60.6	Set	ACSR Zebra conductors 1.0% sag	282450.00	KM	17116470.00
16	10.25	KM	OFC ground wire with accessories	291500	KM	2987875
			Earthing Materials			
17	31	No.	Pipe type earthing	1400.00	No.	43400.00



(1)	(2)	(3)	(4)	(5)	(6)	(7)
18	6	No.	Counter poise earthing (120m length)	3810.00	No.	22860.00
			Tower Accessories			
19	37	No.	Number plate	262.00	No.	9694.00
20	37	No.	Danger Board	420.00	No.	15540.00
21	74	No.	Phase plate( Set of three)	630.00	No.	46620.00
22	74	No.	Circuit plate	262.00	No.	19388.00
			TOWER FOUNDATIONS			
23	18	No.	G type tower	109485.00	No.	1970730.00
			0° to 2° Suspension tower			
24	10	No.	KS type tower	196695.00	No.	1966950.00
			2° to 30° Medium angle tower			
25	9	No.	LS type tower	271804.00	No.	2446236.00
			30° to 60° High angle & Dead end tower			
26			Tower protection works			500000.00
27			Total Cost of materials & equipments			61390405.00
			(adding Item 1 to 27)			
28			Rounding off to nearest thousand			61390400.00
29			Erection charges(10% on item 28)			6139040.00
30			Total (Item 28 + 29)			67529440.00
31	10	KM	Tree/Crop compensation	1000000.00	KM	10000000.00
32			Service Tax 4.944% on Foundation & Erection Charges			3338656.00
			(4.944% on item 30)			
33			Labour Welfare Fund 1.0% on Foundation & Erection Charges			675294.00
			(1.0% on item 30)			
34			Transportation charges (5% on Item 28)			3069520.00
35			Insurance at 1%, Central & State Sales Tax at 5%-(Total 6% on Item 28)			3683424.00
36			Contingencies (1% on Item 28)			613904.00
37			Total Cost of materials & labour (Add: Item No.30-36)			88910238.00
38			Establishment & Supervision Charges at 15.0% on item 37			13336536.00
			TOTAL COST PER	10	KM	102246774.00
			TOTAL COST PER 1 KM			10224677.40
			(Rounding to nearest 1000)	102.25	LAKHS	
			10% Escalation for the year 2015-16			10.2246774
			<b>TOTAL COST PER 1 KM (in Lakhs)</b>			<b>112.47</b>

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**ANNEXURE-3**

COST DATA FOR 230 KV S.C LINE on D.C Towers with Zebra CONDUCTOR (Rate as per TANTRANSOCO Cost Data for the year 2014-2015).

Sl. No.	Quantity	Unit	DESCRIPTION	Rate in Rs.	Per	Amount in Rs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1			<b>Galvanised steel tower materials with extension part wherever necessary, and bolts and nuts etc.,</b>			
a	338.40	MT	b) MS 100%	79500.00	MT	26902800.00
b	17.90	MT	c) Ordinary Bolts & nuts	100000.00	MT	1790000.00
2	1472.00	No.	90 KN Disc Insulators	542.00	No.	797824.00
3	1796.00	No.	120 KN Disc Insulators	691.00	No.	1241036.00
			Conductor & Earth wire accessories			
4	54	Set	Single Suspension fittings for ACSR Zebra	3580.00	Set	193320.00
5	102	Set	Single Tension fittings for ACSR Zebra	2793.00	Set	284886.00
6	12	Set	Double Tension Fittings for Zebra	4042.00	Set	48504.00
7	114	Set	Vibration Damper for Zebra	1365.00	Set	155610.00
8	30	Set	Mid span comp.joint for ACSR ZEBRA	866.00	Set	25980.00
9	30	Set	Repair sleeve for ACSR ZEBRA	368.00	No.	11040.00
10	18	Set	Suspension clamp for Earth wire 7/3.15mm	430.00	Set	7740.00
11	72	Set	Tension Clamp for Earth wire 7/3.55mm	357.00	Set	25704.00
12	108	Set	Mid span comp.joint for GS Earth wire 7/3.55mm 0.3 No. per 1 KM RL	200.00	Set	21600.00
13	56	Set	Alu.earthbond	200.00	No.	11200.00
14	30.3	Set	ACSR Zebra conductors 1.0% sag	282450.00	KM	8558235.00
15	10.25	KM	OFC ground wire with accessories	291500	KM	2987875
			Earthing Materials			
16	33	No.	Pipe type earthing	1400.00	No.	46200.00
17	4	No.	Counter poise earthing (120m length)	3810.00	No.	15240.00
			Tower Accessories			
18	37	No.	Number plate	262.00	No.	9694.00
19	37	No.	Danger Board	420.00	No.	15540.00
20	37	No.	Phase plate( Set of three)	630.00	No.	23310.00
21	37	No.	Circuit plate	262.00	No.	9694.00
			TOWER FOUNDATIONS			
23	18	No.	G type tower	109485.00	No.	1970730.00
			0° to 2° Suspension tower			
24	10	No.	KS type tower	199008.00	No.	1990080.00
			2° to 30° Medium angle tower			
25	9	No.	LS type tower	271804.00	No.	2446236.00
			30° to 60° High angle & Dead end tower			
26			Tower protection works			500000.00

(1)	(2)	(3)	(4)	(5)	(6)	(7)
27			Total Cost of materials & equipments (adding Item 1 to 26)			50090078.00
			Rounding off to nearest thousand			50090100.00
28			Erection charges(10% on item 27)			5009010.00
29						55099110.00
30	10	KM	Tree/Crop compensation	1000000	KM	10000000.00
31			Service Tax 4.944% on Foundation & Erection Charges(on item 29)			2724100.00
32			Labour Welfare Fund 1.0% on Foundation & Erection Charges(on item 29)			550991.00
33			Transportation charges (5% on Item 27)			2504505.00
34			Insurance at 1%, Central & State Sales Tax at 5%-(Total 6% on Item 27)			3005406.00
35			Contingencies (1% on Item 27)			500901.00
36			Total Cost of materials & labour (Add: Item No.29-35)			74385013.00
37			Establishment & Supervision Charges at 15.0% on item 36			11157752.00
38			TOTAL COST PER	10	KM	85542765.00
			TOTAL COST PER 1 KM			8554276.50
			(Rounding to nearest 1000) SAY (in Lakhs)			85.54
			10% Escalation for the year 2015-16			8.5542765
			TOTAL COST PER 1 KM (in Lakhs)			94.10

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**ANNEXURE-4**

COST DATA FOR 110 KV 3 CIRCUITS LINE ON 230KV MC TOWERS WITH PANTHER CONDUCTOR (Rate adopted as per TANTRANSCO Cost Data for the year 2014-2015).

Sl. No.	Quantity	Unit	DESCRIPTION	Rate in Rs.	Per	Amount in Rs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			<b>Galvanised steel tower materials with extension part wherever necessary, and bolts and nuts etc.,</b>			
1	597.37	M T	MS tower parts	79500.00	M T	47490684.45
2	164.25		HT Tower parts	83500.00	M T	13714950.15
3	21.59	M T	Ordinary Bolts & nuts	100000.00	M T	2159000.00
4	1940	No.	90 KN Disc Insulators	542.00	No.	1051480.00
5	2940	No.	120 KN Disc Insulators	691.00	No.	2031540.00
			Conductor & Earth wire accessories			
6	162	Set	Single Suspension Fittings for ACSR panther	1470.00	Set	238140.00
7	114	Set	Single suspension fittings for jumperig	1470.00	Set	167580.00
8	324	Set	Single Tension fittings for ACSR Panther	1700.00	Set	550800.00

(1)	(2)	(3)	(4)	(5)	(6)	(7)
9	18	Set	Double tension fittings	2310.00	set	41580.00
10	342	Set	Vibration Damper for ACSR panther	766.00	Set	261972.00
11	90	Set	Mid span comp. joint for panther	693.00	Set	62370.00
12	90	No.	Repair sleeve for Panther	230.00	No.	20700.00
13	18	Set	Suspension clamp for Earth wire 7/3.55mm	430.00	Set	7740.00
14	38	Set	Tension Clamp for Earth wire 7/3.55mm	357.00	Set	13566.00
15	6	Set	Midspan compression joint for GS Earth wire 7/3.55mm	200.00	Set	1200.00
16	56	No.	Flexible Al. Earth bond	200.00	No.	11200.00
17	90.9	KM	ACSR Panther	181650.00	KM	16511985.00
18	10.15	KM	GI Earth wire 7/3.55mm	42900.00	KM	435435.00
			Earthing Materials			
19	35	No.	Pipe type earthing	1400.00	No.	49000.00
20	4	No.	Counter poise earthing (120m length)	3810.00	No.	15240.00
			Tower Accessories			
21	37	No.	Number plate	262.00	No.	9694.00
22	37	No.	Danger Board	420.00	No.	15540.00
23	111	No.	Phase plate( Set of three)	630.00	No.	69930.00
24	111	No.	Circuit plate	262.00	No.	29082.00
25	37	No.	Anti-climbing devices	6930.00	No.	256410.00
			TOWER FOUNDATIONS			
26	18	No.	MA type tower	462911.00	No.	8332398.00
			0° to 2° Suspension tower			
27	10	No.	MC type tower	1161358.00	No.	11613580.00
			2° to 30° Medium angle tower			
28	9	No.	MD type tower	1668247.00	No.	15014223.00
			30° to 60° High angle & Dead end tower			
29			Tower protection works			5000000.00
30			Total Cost of materials & equipments			125177019.60
			(adding Item 1 to 29)			
			Rounding off to nearest thousand			125177000.00
31			Erection charges(10% on item 30)			12517700.00
32						137694700.00
33	10	KM	Tree/Crop compensation	1000000.00	KM	10000000.00
34			Service Tax 4.944% on Foundation & Erection Charges(on item 32)			6807626.00
35			"Labour Welfare Fund 1.0% on Foundation & Erection Charges "(on item 32)"			1376947.00
36			"Transportation charges "(5% on Item 30)"			6258850.00
37			Insurance at 1%, Central & State Sales Tax at 5%-(Total 6% on Item 30)			7510620.00
38			Contingencies (1% on Item 30)			1251770.00

(1)	(2)	(3)	(4)	(5)	(6)	(7)
39			"Total Cost of materials & labour" (Add: Item No.32-38)"			170900513.00
40			Establishment & Supervision Charges at 15.0% on item 39			25635077.00
41			TOTAL COST PER	10	KM	196535590.00
42			TOTAL COST PER 1 KM			19653559.00
			(Rounding to nearest 1000) SAY (in Lakhs)			196.54
			10% Escalation for the year 2015-16			19.653559
			TOTAL COST PER 1 KM (in Lakhs)			216.19

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**ANNEXURE-5**

COST DATA FOR 110 KV 4 CIRCUITS LINE ON 230 KV MC TOWERS WITH PANTHER CONDUCTOR (Rate adopted as per TANTRANSCO Cost Data for the year 2014-2015).

Sl. No.	Quantity	Unit	DESCRIPTION	Rate in Rs.	Per	Amount in Rs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			<b>Galvanised steel tower materials with extension part wherever necessary, and bolts and nuts etc.,</b>			
1	597.37	MT	MS tower parts	79500.00	MT	47490684.45
2	164.25		HT Tower parts	83500.00	MT	13714950.15
3	21.59	MT	Ordinary Bolts & nuts	100000.00	MT	2159000.00
4	2602	No.	90 KN Disc Insulators	542.00	No.	1410284.00
5	3918	No.	120 KN Disc Insulators	691.00	No.	2707338.00
			Conductor & Earth wire accessories			
6	216	Set	Single Suspension Fittings for ACSR Panther	1470.00	Set	317520.00
7	60	Set	Single suspension fittings for jumperig	1470.00	Set	88200.00
8	432	Set	Single Tension fittings for ACSR Panther	1700.00	Set	734400.00
9	24	set	Double tension fittings	2310.00	Set	55440.00
10	456	Set	Vibration Damper for ACSR Panther	766.00	Set	349296.00
11	120	Set	Mid span comp. joint for Panther	693.00	Set	83160.00
12	120	No.	Repair sleeve for Panther	230.00	No.	27600.00
13	18	Set	Suspension clamp for Earth wire 7/3.55mm	430.00	Set	7740.00
14	38	Set	Tension Clamp for Earth wire 7/3.55mm	357.00	Set	13566.00
15	6	Set	Midspan compression joint for GS Earth wire 7/3.55mm	200.00	Set	1200.00
16	56	No.	Flexible Al. Earth bond	200.00	No.	11200.00
17	121.2	KM	ACSR Panther	181650.00	KM	22015980.00
18	10.15	KM	GI Earth wire 7/3.55mm	42900.00	KM	435435.00
			Earthing Materials			
19	35	No.	Pipe type earthing	1400.00	No.	49000.00
20	2	No.	Counter poise earthing (120m length)	3810.00	No.	7620.00

(1)	(2)	(3)	(4)	(5)	(6)	(7)
			Tower Accessories			
21	37	No.	Number plate	262.00	No.	9694.00
22	37	No.	Danger Board	420.00	No.	15540.00
23	148	No.	Phase plate( Set of three)	630.00	No.	93240.00
24	148	No.	Circuit plate	262.00	No.	38776.00
25	37	No.	Anti-climbing devices	6930.00	No.	256410.00
			TOWER FOUNDATIONS			
26	18	No.	MA type tower	462911.00	No.	8332398.00
			0° to 2° Suspension tower			
27	10	No.	MC type tower	1161358.00	No.	11613580.00
			2° to 30° Medium angle tower			
28	9	No.	MD type tower	1668247.00	No.	15014223.00
			30° to 60° High angle & Dead end tower			
29			Tower protection works			5000000.00
30			Total Cost of materials & equipments (adding Item 1 to 29)			132053474.60
			Rounding off to nearest thousand			132053500.00
31			Erection charges(10% on item 30)			13205350.00
32						145258850.00
33	10	KM	Tree/Crop compensation	1000000.00	KM	10000000.00
34			Service Tax 4.944% on Foundation & Erection Charges(on item 32)			7181598.00
35			Labour Welfare Fund 1.0% on Foundation & Erection Charges (on item 32)			1452589.00
36			Transportation charges (5% on Item 30)			6602675.00
37			Insurance at 1%, Central & State Sales Tax at 5%-(Total 6% on Item 30)			7923210.00
38			Contingencies (1% on Item 30)			1320535.00
39			Total Cost of materials & labour (Add: Item No.32-38)			179739457.00
40			Establishment & Supervision Charges at 15.0% on item 39			26960919.00
41			TOTAL COST PER	10	KM	206700376.00
42			TOTAL COST PER 1 KM			20670037.60
			(Rounding to nearest 1000) SAY (in Lakhs)			206.70
			10% Escalation for the year 2015-16			20.6700376
			TOTAL COST PER 1 KM (in Lakhs)			227.37

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NCES – Wind Energy – Erection of 2x25 MVA, 110/33 KV Power Transformer at existing Manur 110/33 KV SS by M/s.Wind World India Ltd., - Reimbursement claimed by the Company – Finalization of refund amount – Approved.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.310. Dated the 25<sup>th</sup> July, 2015.  
Aadi 09, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. B.P.(FB) No.68 Dated 02.07.2003.
2. (Per.) B.P.(Ch) No.97 Dated 06.03.2010.
3. (Per.) B.P.(Ch) No.305 Dated 29.07.2010.
4. Lr.No.CE/NCES/SE/EE/WPP/A2/F.Manur SS/D.3097/10,  
Dated 09.11.2010.
5. CMD/TANGEDCO approval dated 17.07.2015.

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**PROCEEDINGS:**

Work of erection of 2x25 MVA, 110/33 KV Power Transformers at Manur 110/33 KV SS was sanctioned vide B.P. under reference (3) and the above work was awarded to M/s.Wind World India Ltd., (Formerly M/s.Enercon India Ltd.,) as per award letter under reference (4).

After completion of the above work successfully as per the guidelines stipulated by the Board, the Company has now requested reimbursement of the amount spent by them towards the above works as per the provisions of B.P. under reference (1) cited and as per the award letter vide under reference (4).

After careful consideration TANGEDCO approves the following proposals:

1. To deduct 5% Work Contract tax from the eligible reimbursement amount.
2. To deduct 2% income tax from the eligible reimbursement amount.
3. To settle the reimbursement amount of Rs.426.971 Lakhs to M/s.Wind World India Ltd., for the above works as follows:

Amount eligible	:	Rs.459.108 Lakhs
Less 5% Work Contract Tax	:	Rs. 22.955 Lakhs (-)
Less 2% Income Tax	:	Rs. 9.182 Lakhs (-)
Amount to be reimbursed	:	<u>Rs.426.971 Lakhs</u>

(Rupees Four Crores twenty six lakhs ninety seven thousand and one hundred only)

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

A. Subramanian,  
Chief Engineer/NCES.

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NCES – Wind Energy – Erection of 1x16 MVA, 110/22 KV Power Transformer at existing Thalaiyuthu 110/22 KV SS by M/s.Wind World India Ltd., - Reimbursement claimed by the Company – Finalization of refund amount – Approved.

(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.311. Dated the 25<sup>th</sup> July, 2015.  
Aadi 09, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. B.P.(FB) No.68 Dated 02.07.2003.
2. (Per.) B.P.(FB) No.165 Dated 22.11.2003.
3. (Per.) B.P.(Ch) No.305 Dated 29.07.2010.
4. Lr.No.CE/NCES/EE/WCB/AEE2/F.Thalaiyuthu SS/D.1475/05, Dated 02.12.2005.
5. CMD/TANGEDCO approval dated 17.07.2015.

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**PROCEEDINGS:**

Work of erection of 1x16 MVA, 110/22 KV Power Transformers at Thalaiyuthu 110/22 KV SS was sanctioned vide B.P. under reference (2) and the above work was awarded to M/s.Wind World India Ltd., (Formerly M/s.Enercon India Ltd.,) as per award letter under reference (3).

After completion of the above work successfully as per the guidelines stipulated by the Board, the Company has now requested reimbursement of the amount spent by them towards the above works as per the provisions of B.P. under reference (1) cited and as per the award letter vide under reference (3).

After careful consideration TANGEDCO approves the following proposals:

1. To deduct 5% Work Contract tax from the eligible reimbursement amount.
2. To deduct 2% income tax from the eligible reimbursement amount.
3. To deduct the balance IDC to be collected.
4. To settle the reimbursement amount of Rs.99.312 Lakhs to M/s.Wind World India Ltd., for the above works as follows:

Amount eligible	:	Rs.69.557 Lakhs
Less 5% Work Contract Tax	:	Rs.03.478 Lakhs (-)
Less 2% Income Tax	:	Rs.01.391 Lakhs (-)
Add : Excess O&M charges to be refunded	:	Rs.82.624 Lakhs (+)
	:	<u>Rs.147.312 Lakhs</u>
Less : Balance IDC to be collected	:	<u>Rs. 48.000 Lakhs (-)</u>
Amount to be reimbursed	:	<u>Rs. 99.312 Lakhs</u>

(Rupees Ninety nine lakhs thirty one thousand and two hundred only)

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

A. Subramanian,  
Chief Engineer/NCES.

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Gas Turbine Schemes – Repairing of GT Parts – Under Single Tender System – Proposal to accept the offer of M/s.BHEL-GE Gas Turbine Services Private Limited, Hyderabad and to award Works Contract to them – Approved by the Board.

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(Technical Branch)

(Per.) FB TANGEDCO Proceedings No.42. Dated the 28<sup>th</sup> July, 2015.  
Aadi 12, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Ref : 1. Item No.06 of Minutes of the **57<sup>th</sup> Board** Meeting of TANGEDCO held on 17.07.2015.

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**PROCEEDINGS:**

Tamil Nadu Generation & Distribution Corporation Ltd., (TANGEDCO) Board approved the proposal to accept the rates offered by M/s.BHEL – GE Gas Turbine Services Pvt. Ltd., Hyderabad, related to repairing of the Gas Turbine parts which were released from Thirumakottai (Kovilkalpal) Gas Turbine Power Station during the Hot Gas Path Inspection carried out in September 2014.

i) for Inspection and repairing of 2 items of GT Parts, i.e., 1<sup>st</sup> and 2<sup>nd</sup> Stage Buckets excluding cost of spares,

ii) for inspection of 3<sup>rd</sup> Stage Buckets and

iii) for repairing of 6 items i.e., 1<sup>st</sup> Stage Shroud, 2<sup>nd</sup> Stage Shroud, Fuel Nozzle assemblies, Combustion liners, Cross fire tubes and Retainers including cost of required spares,

at a total cost of **Rs.6,94,61,699/- (Rupees Six Crores ninety four lakhs sixty one thousand six hundred and ninety nine only)** (F.O.R. Destination including all taxes and duties) under single tender proprietary basis and to award a works contract to them with the terms and conditions recommended in the note.

(By Order of the Board)

M. Senthilvel,  
Chief Engineer/Gas Turbine Schemes.

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TANGEDCO - Manufacture and supply of 12320 Nos.7.5m and 4620 Nos. 8.0m PSC Poles (REC Design) cast in twin mould form boxes for a period of one year at Valayapatti PSC Yard - Approval Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.312. Dated the 28<sup>th</sup> July, 2015.  
Aadi 12, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Chief Engineer/Civil Designs note approved by the CMD/ TANGEDCO on 27.07.2015.

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**PROCEEDINGS:**

Administrative approval is hereby accorded for the work of Manufacture and supply of 12320 Nos. 7.5m PSC poles and 4620 Nos 8.0 m PSC poles (REC Design) using the Twin mould Form boxes at Valayapatti PSC Yard by leasing the PSC Yard for one year for a value of Rs. 2,90,49,200/- (Rupees Two Crores Ninety Lakhs Forty Nine Thousand and Two Hundred Only) based on the PWD Schedule of rates 2014-2015.

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

C. Ramesh,  
Chief Engineer/Civil Designs (I/c.)

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MM-II - Specification No.M-18/2014-2015 - Two Part Open Tender Rate Contract System - Procurement of 800 Nos. of Energy Efficient 500 KVA/11 KV/433V Distribution Transformers - Award of Purchase Orders - Approval - Accorded.

(Technical Branch)

(Per.) FB TANGEDCO Proceedings No.44

Dated the 29<sup>th</sup> July 2015.  
Aadi: 13, Sri Manmatha Varudam,  
Thiruvalluvar Aandu, 2046.

READ:

- 1) The approval of TANGEDCO Board by circulation accorded on 28.07.2015.

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**PROCEEDINGS:**

The Tamil Nadu Generation and Distribution Corporation Ltd., accorded approval for the following proposals:

A) To place orders for a quantity of 5 Nos. of DTs on each L1 quoted/equaluated new entrant tenderer at an all-inclusive price of Rs.2,30,400/- @ the revised ED 12.50% as tabulated below:

S. No.	Name of the firm	Qty. proposed to be allotted in Nos.	All Inclusive Price/Unit Rs. P.	Total Value in Rs. P.
1)	M/s. Currant Power Equipments Pvt. Ltd, Chennai	5	2,30,400.00	11,52,000.00
2)	M/s. Cylex Equipments, Chennai	5	2,30,400.00	11,52,000.00
	Total	10		23,04,000.00

B) To place orders for a quantity of 790 Nos. on the following 21 local/regular tenderers at an all-inclusive price of Rs. 6,88,581.25 @ the revised ED 12.50% as tabulated below:

S. No.	Name of the firm	Qty. proposed to be allotted in Nos.	All Inclusive Price/Unit Rs. P.	Total Value in Rs. P.
1)	M/s. Tamil Nadu Transformers, Ranipet	31	6,86,218.75	21272781.25

2)	M/s. Sri Ramakrishna Transformers, Villupuram	46	6,68218.75	31566062.50
3)	M/s. Hindustahn Heavy Electrical P Ltd, Coimbatore	46	6,68218.75	31566062.50
4)	M/s. Sri Thirumala Fabricators, Chennai	31	6,86,218.75	21272781.25
5)	M/s. Hindusthan Transformers, Chennai	46	6,68218.75	31566062.50
6)	M/s. Paramount Industries, Chennai	16	6,83,018.75	10979500.00
7)	M/s. Bala Industries, Chennai.	46	6,68218.75	31566062.50
8)	M/s. Danya Electric Company, Chennai	30	6,86,218.75	20586562.50
9)	M/s. Supreme Power Equipment Pvt Ltd., Chennai	46	6,68218.75	31566062.50
10)	M/s. Wilson Power and Distribution Technologies Pvt. Ltd, Chennai	16	6,83,018.75	10979500.00
11)	M/s. SAP Industries, Chennai.	31	6,86,218.75	21272781.25
12)	M/s. Shree Abirami Engineering Works, Chennai	16	6,83,018.75	10979500.00
13)	M/s. Voltech Manufacturing Company Ltd, Kanchipuram	46	6,68218.75	31566062.50
14)	M/s. Current Electricals Ltd., Chennai	46	6,68218.75	31566062.50
15)	M/s. Ascott Electricals Pvt. Ltd., Chennai	46	6,68218.75	31566062.50
16)	M/s. IPL Products, Chennai	46	6,68218.75	31566062.50
17)	M/s. Sarayu Engineering, Dindigul.	46	6,68218.75	31566062.50
18)	M/s. Associated Transformers P Ltd, Dindigul.	31	6,86,218.75	21272781.25
19)	M/s. Sakthi Transformers, Chennai	30	6,86,218.75	20586562.50
20)	M/s. Senthil Engineering Company, Chennai	46	6,68218.75	31566062.50
21)	M/s. Venkateswara Electircal Industries P Ltd, Chennai.	52	6,86,218.75	35683375.00
	Total	790		542112812.50

Total quantity : L1+L2 = 10+790=800 Nos.

Total value of Order: L1+L2 = Rs.23,04,000.00+Rs. 54,21,12,812.50= Rs. 54,44,16,812.50 (Rupees Fifty Four Crore Forty Four Lakh Sixteen Thousand Eight Hundred and Twelve and Paise Fifty Only) @ the revised ED 12.50%.

C) To cancel the order of the tenderer who fails to keep up the delivery schedule and to re-allocate the same quantity on such firms who successfully complete their supply within schedule.

// By Order of TANGEDCO Board //

M. Asokan,  
Chief Engineer/Materials Management.

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NCES – Wind Energy – Erection of 1x25 MVA, 110/33 KV Power Transformer at existing Pavoorchatiram 110/33 KV SS by M/s.Southern Wind Farm Ltd., - Reimbursement claimed by the Company – Finalization of refund amount – Approved.

(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.316. Dated the 29<sup>th</sup> July, 2015.  
Aadi 13, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. B.P.(FB) No.68 Dated 02.07.2003.
2. (Per.) B.P.(Ch) No.469 Dated 16.10.2008.
3. Lr.No.CE/NCES/SE/EE/WPP/A2/F.Pavoorchatiram 3<sup>rd</sup> 25 MVA/D.1277/08, Dated 19.12.2008.
4. CMD/TANGEDCO approval dated 27.07.2015.

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**PROCEEDINGS:**

Work of erection of 1x25 MVA, 110/33 KV Power Transformers at Pavoorchatiram 110/33 KV SS was sanctioned vide B.P. under reference (2) and the above work was awarded to M/s.Southern Wind Farm Ltd., as per award letter under reference (3).

After completion of the above work successfully as per the guidelines stipulated by the Board, the Company has now requested reimbursement of the amount spent by them towards the above works as per the provisions of B.P. under reference (1) cited and as per the award letter vide under reference (3).

After careful consideration TANGEDCO approves the following proposals:

1. To deduct 5% Work Contract tax from the eligible reimbursement amount.
2. To deduct 2% income tax from the eligible reimbursement amount.
3. To settle the reimbursement amount of Rs.168.934 Lakhs to M/s.Southern Wind Farm Ltd., for the above works as follows:

Amount eligible	:	Rs.196.70 Lakhs
Less 5% Work Contract Tax	:	Rs. 9.835 Lakhs (-)
Less 2% Income Tax	:	Rs. 3.934 Lakhs (-)
	:	Rs.182.931 Lakhs
Add : Excess O&M Charges refunded	:	Rs. 17.503 Lakhs (+)
	:	Rs.200.434 Lakhs
Less : Balance IDC to be collected	:	Rs. 31.500 Lakhs (-)
Amount to be reimbursed	:	Rs.168.934 Lakhs

(Rupees One Crore sixty eight lakhs ninety three thousand and four hundred only)

(By Order of the Chairman - cum - Managing Director/TANGEDCO)

A. Subramanian,  
Chief Engineer/NCES.

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Tuticorin Thermal Power Station – R&M Works – Unit-II – Manufacture, supply, erection, testing and commissioning of Coutant bottom slope tubes & acute bends in Front & Rear side of Unit II Boiler during Capital Overhaul 2015-2016 - Administrative Approval – Accorded.

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(Technical Branch)

Per. TANGEDCO Proceedings (CMD) No.317. Dated the 29<sup>th</sup> July, 2015.  
Aadi 13, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

Note approved by the CMD/TANGEDCO on 27.07.2015.

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**PROCEEDINGS:**

“Administrative approval is accorded for complete replacement Coutant bottom slope tubes & Acute bends in Unit-II Boiler including dismantling of existing coutant bottom slop tubes & acute bends, supply, erection, testing and commissioning of new coutant bottom slope tubes and acute bends during the forthcoming Capital Overhaul in 2015-2016 at an approximate cost of Rs.2,20,02,682/- (Gross) (Rupees two crores twenty lakhs two hundred six hundred and eighty two only) and Rs.2,13,94,682/- (Nett) (Rupees Two crores thirteen lakhs ninety four thousand six hundred and eighty two only) including taxes & duties under open tender system by CE/ TTPS.

(By Order of the Chairman - cum - Managing Director)

UL. Nagappan,  
Chief Engineer/Mech./Thermal Stations.

\* \* \*

Procurement of 1 No. New diesel driven, Mahindra Bolero-LX Jeep model 2WD 7 Seater Non AC BS-III vehicle towards replacement of the condemned diesel driven Jeep bearing Regn.No.TN-49-W-1929 attached to Assistant Executive Engineer/O&M/Thennur under the control of Superintending Engineer/TEDC/Metro/ Trichy under diversion to Vigilance Officer/Trichy - Approval – Accorded.

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(Technical Branch)

(Per.) CMD TANGEDCO Proceedings No.318. Dated the 29<sup>th</sup> July, 2015.  
Aadi 13, Sri Manmatha Varudam,  
Thiruvalluvar Aandu 2046.

READ:

1. Chairman-cum-Managing Director Note Order Dt.27.07.2015.

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**PROCEEDINGS:**

“Administrative approval is hereby accorded for procurement of One No. New diesel driven, Mahindra Bolero-LX Jeep model 2WD 7 Seater Non AC BS-III vehicle at a cost of Rs.5.70 Lakhs (approximately) at DGS & D rates/rates as applicable to Govt.Ex-show room rate with waiver of EMD, SD and LD clauses towards replacement of the condemned diesel driven Jeep bearing Registration No. TN-49-W-1929 attached to Assistant Executive Engineer/O&M/Thennur under the control of Superintending Engineer/ TEDC/Metro/ Trichy under diversion to Vigilance Officer/ Trichy”.

(By Order of the Chairman - cum - Managing Director)

M. Asokan,  
Chief Engineer/Materials Management.

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<b>25) Per. (CMD) TANGEDCO Proceedings No.278. (Techl.Br.) Dt.03.07.2015.</b>	<b>35</b>
CE/MTS Office – Replacement of 2 Nos. Thin client computers by Personal Computers in the E4 Division at the O/o.SE/Thermal Purchase Circle – Approval – Accorded.	
<b>26) Rt. (CMD) TANGEDCO Proceedings No.63. (Techl.Br.) Dt.04.07.2015.</b>	<b>35</b>
TNEB – Headquarters Complex – Purchase of Drinking water from CMWSSB from 17.07.2015 to 16.12.2015 – Administrative approval and advance payment to be made for the above period – Administrative Approval – Accorded.	
<b>27) (Per.) CH/TANTRANSCO Proceedings No.104. (Techl.Br.) Dt.04.07.2015.</b>	<b>36</b>
NCES – Wind Energy – Erection of Additional 1x25 MVA 110/33 KV Power Transformer at existing Ayyanaruthu 110/33 KV TANTRANSCO Sub Station - Administrative Approval Accorded.	
<b>28) (Per.) CMD TANGEDCO Proceedings No.283. (Techl.Br.) Dt.07.07.2015.</b>	<b>39</b>
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- 29) (Rt.) CMD TANGEDCO Proceedings No.64. (Techl.Br.) Dt.07.07.2015. 39**  
 Hydro – **Generation Circle Tirunelveli** – Sweeping and cleaning in and around power house, Inspection Bungalow, Cleaning toilets & open drain, petty repair work etc., in Power House and Camp area at **Periyar Lower Camp & Vaigai Micro Hydel Power House Station** by awarding Works Contract for a period of one year from the date of utilization – Administrative Approval – Accorded.
- 30) (Rt.) CMD TANGEDCO Proceedings No.65. (Techl.Br.) Dt.10.07.2015. 40**  
 TANGEDCO – Mettur Workshop Circle – Payment of fees to Thiru P.C.Anand, Chartered Accountant and Central Excise Consultant, M/s. Chakaravarthy Associates, Chennai – Approved.
- 31) (Per.) FB TANGEDCO Proceedings No.39. (Techl.Br.) Dt.10.07.2015. 40**  
 TANGEDCO – Projects – Establishment of 1x800 MW Supercritical Coal based North Chennai Thermal Power Project, Stage-III at Thiruvallur District under Two packages – BTG Package and BOP Package under EPC basis instead of a Single EPC Contract – Approval – Accorded.
- 32) (Per.) CMD TANGEDCO Proceedings No.286. (Techl.Br.) Dt.10.07.2015. 41**  
 TANGEDCO – Trichy Region – Manufacture and supply of 30240 Nos. of 7.50 m PSC poles and 5760 Nos. of 8.0 m PSC poles (REC Design) cast in twin mould form boxes for a period of one year at Samayapuram PSC yard – Administrative Approval – Accorded.
- 33) (Per.) CMD TANGEDCO Proceedings No.289. (Techl.Br.) Dt.13.07.2015. 42**  
 “Sillahalla Pumped Storage Hydro-Electric Project (2000 MW) Phase-I in Nilgiris District – Engaging Thiru K.Jawaran, TANGEDCO retired Foreman for a period of one more year (from July 2015 to June 2016) on daily wages basis (as per PWD Schedule of rates) for the various project pre-development activities including the “Sillahalla Pumped Storage Hydro-Electric Project (2000 MW)” - Approval – Accorded.
- 34) (Per.) CMD TANGEDCO Proceedings No.291. (Techl.Br.) Dt.13.07.2015. 42**  
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- 35) (Per.) CMD TANGEDCO Proceedings No.292. (Techl.Br.) Dt.13.07.2015. 43**  
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- 36) (Rt.) CMD TANGEDCO Proceedings No.68. (Techl.Br.) Dt.13.07.2015. 44**  
 Hydro – Generation Circle Tirunelveli – Maintenance by periodical Sweeping, Cleaning Highwavys pump house, all section offices, Dispensary, rest room, cleaning the silt, slush and calcinations inside the Gallery and cleaning the scurb at the approaches of Highwavys, Venniyar, Eravangalar and Manalar Dam in **Suruliyar Upper Camp** and Maintenance by periodical Sweeping, cleaning in and around power house, Dispensary, Office Building, cleaning

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- 37) (Per.) CMD TANGEDCO Proceedings No.295. (Techl.Br.) Dt.15.07.2015. 45**  
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- 38) (Per) TANGEDCO Proceedings (CMD) No.297 (Techl.Br.) Dt.16.07.2015 45**  
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- 39) (Per.) TANTRANSCO Proceedings CH No.116. (Techl.Br.) Dt.17.07.2015. 47**  
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- 40) (Per.) TANTRANSCO Proceedings (CH) No.117. (Techl.Br.) Dt.17.07.2015. 48**  
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- 41) (Per.) CMD TANGEDCO Proceedings No.298. (Techl.Br.) Dt.17.07.2015. 48**  
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- 42) (Per.) CMD TANGEDCO Proceedings No.299. (Techl.Br.) Dt.17.07.2015. 49**  
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- 43) (Routine) CMD TANGEDCO Proceedings No.69. (Techl.Br.) Dt.17.07.2015. 50**  
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- 44) Per. (CMD) TANGEDCO Proceedings No.305. (Techl.Br.) Dt.22.07.2015. 50**  
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- 45) (Per.) CMD TANGEDCO Proceedings No.306 (Techl.Br.) Dt.23.07.2015. 51**  
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- 56) (Per.) FB TANGEDCO Proceedings No.44 (Techl.Br.) Dt.29.07.2015. 90**  
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- 57) (Per.) CMD TANGEDCO Proceedings No.316. (Techl.Br.) Dt.29.07.2015. 92**  
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- 58) Per. TANGEDCO Proceedings (CMD) No.317. (Techl.Br.) Dt.29.07.2015. 93**  
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- 59) (Per.) CMD TANGEDCO Proceedings No.318. (Techl.Br.) Dt.29.07.2015. 93**  
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