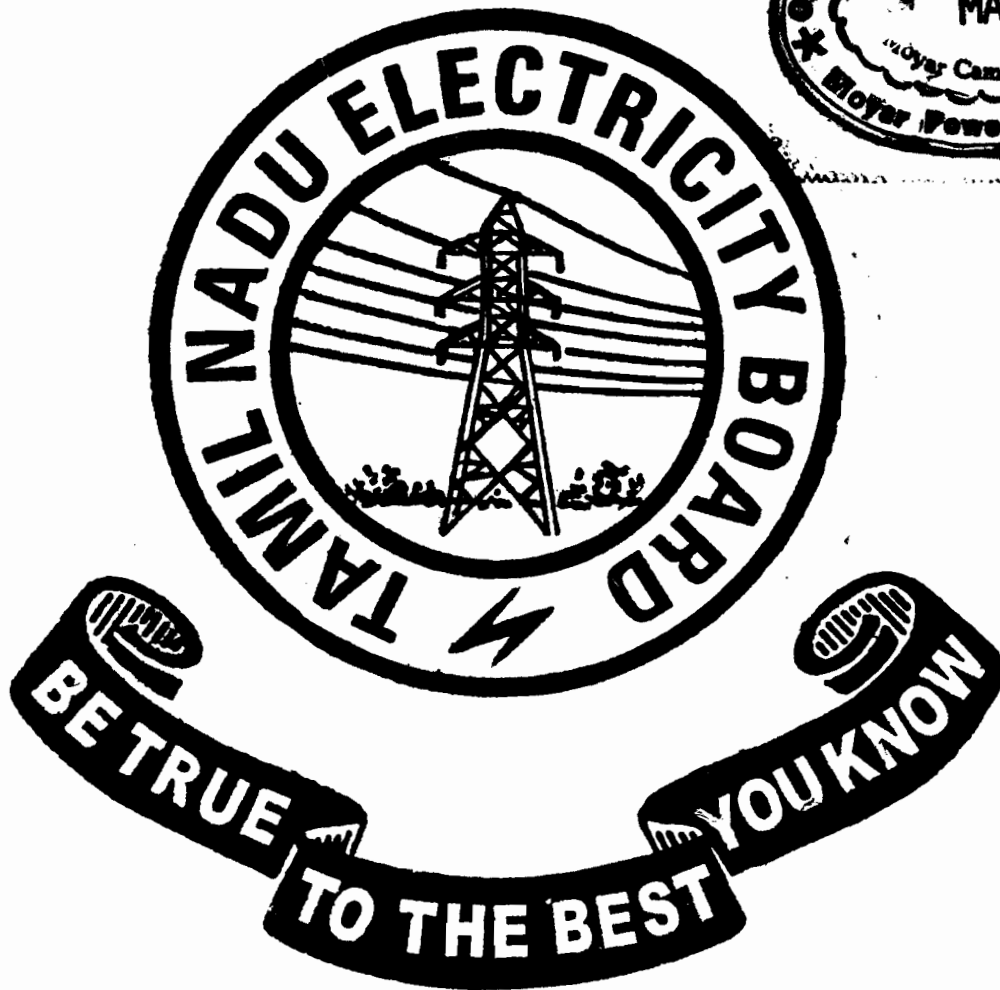


TAMIL NADU ELECTRICITY BOARD BULLETIN

Vol. XIX

DECEMBER 2000

No. 12



TAMIL NADU ELECTRICITY BOARD

BULLETIN



DECEMBER, 2000

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News & Notes

PART - I News & Notes

I. Generation Particulars:

The generation/relief figures for December 2000 were as follows:

Sl. No.	Particulars	December 2000 (in Million Units)
1.	Ennore T.P.S.	83.988
2.	North Chennai T.P.S.	357.390
3.	Tuticorin T.P.S.	612.920
4.	Mettur T.P.S.	620.940
5.	Total Thermal	1675.238
6.	Neyveli T.S. I	263.815
7.	Neyveli T.S. II	722.207
8.	MAPS	207.599
9.	Hydro Generation	464.489
10.	Kadamparai Pump Mode	9.190
11.	Import from N.T.P.C.	305.821
12.	Export to Kerala	323.044
13.	Import from Manali	2.516
14.	Wind Mill Generation	0.546
15.	Wind Mill (PVT)	41.994
16.	Narimanam, Basin Bridge GMR, TCPL,HITEC	130.390
Nett TNEB Consumption		3482.381

The maximum grid demand and consumption during December, 2000 were 5979 MW at 48.00 Hz on 21.12.2000 and 121.452 MU on 22.12.2000. The average grid consumption in December, 2000 was 112.335 MU per day.

II. Hydro Inflows:

The Hydro inflows excluding Mettur for the month of December 2000 was 190 MU against 169 MU in December 1999 and the Ten years average of 224 MU.

III. Storage Position:

The storage position in various reservoirs as on 01.01.2001 when compared to the storage as on 01.01.2000 was as follows:-

Sl.No.	Name of the Group	As on		Difference	
		01.01.2001	01.01.2000		
1.	Nilgiris	1007.700	1044.050	(-)	36.350
2.	P.A.P.	116.100	223.860	(-)	107.760
3.	Periyar	50.370	27.870	(+)	22.500
4.	Papanasam & Servalar	20.680	22.240	(-)	1.560
5.	Suriliyar	19.190	25.840	(-)	6.650
6.	Kodayar	128.450	159.100	(-)	30.650
7.	Total Excluding Mettur	1342.490	1502.960	(-)	160.470
8.	For Mettur	158.290	188.540	(-)	30.250

IV. Performance of Thermal Stations:**I. Tuticorin (5 x 210 MW):**

The details of generation at Tuticorin T.P.S. during December 2000 were as follows:

	Unit	Availability Factor (%)	Generation (in MU)	Plant Load Factor (%)
I	(210 MW)	96.00	149.48	95.70
II	(210 MW)	100.00	154.22	98.70
III	(210 MW)	0.00	0.00	0.00
IV	(210 MW)	98.40	152.96	97.90
V	(210 MW)	99.60	156.26	100.00
	STATION	98.50	612.92	98.07

II. Ennore (2 x 60 MW + 3 x 110 MW):

The details of generation at Ennore T.P.S. during December 2000 were as follows:

	Unit	Availability Factor (%ge)	Generation (MU)	Plant Load Factor (%ge)
I	(60 MW)	85.20	23.04	51.60
II	(60 MW)	99.70	29.14	65.30
III	(110 MW)		Refurb Works	
IV	(110 MW)	68.40	31.80	38.90
V.	(110 MW)		Refurb Works	
	STATION	84.40	83.99	51.90

III. North Chennai (3 x 210 MW):

The details of generation at North Chennai T.P.S. during December 2000 were as follows:

Unit	Availability Factor (%)	Generation (in MU)	Plant Load Factor (%)
I (210 MW)	99.79	152.67	97.72
II (210 MW)	38.09	54.83	35.09
III (210 MW)	99.08	149.89	95.94
STATION	78.99	357.39	76.25

iv. Mettur (4 x 210 MW):

The details of generation at Mettur T.P.S. during December 2000 were as follows:

Unit	Availability Factor (%)	Generation (in MU)	Plant Load Factor (%)
I (210 MW)	97.45	151.75	97.13
II (210 MW)	100.00	156.85	100.58
III (210 MW)	100.00	155.50	100.01
IV (210 MW)	100.00	156.84	100.63
STATION	99.36	620.94	99.59

v. Coal Particulars for December 2000:

Sl.No.	Particulars	Tuticorin TPS	Mettur TPS	North Chennai TPS	Ennore TPS
1.	Coal Linkage (in lakh tonnes)	3.75	4.00	2.75	2.50
2.	Coal Receipt (-do-)	4.70	4.94	3.00	1.04
3.	Coal Consumption (-do-)	4.17	4.88	2.72	0.97
4.	Coal Stock as on 1.1.2001 (-do-)	4.47	3.01	3.85	2.66
5.	Specific Coal Consumption (Kg./Ug.)	0.680	0.786	0.761	1.150

vi. Auxillary consumption and oil consumption during December 2000:

Details	Name of the Thermal Power Station			
	Tuticorin	Mettur	North Chennai	Ennore
Specific Oil consumption (ml/ug)	1.290	0.728	9.060	27.900
Auxiliary consumption (%)	7.600	7.460	9.040	15.600

VII. Important Circulars :

1. Theft of electricity and other malpractices furnishing of information-Detection-Payment of cash reward - Enhancement - Orders issued in (Per.) B.P. (FB) No.97, (Sectt.Branch), dt.7.12.2000.

S. Mookandi,
Executive Engineer/
Chairman's Office.

* * *

The following are the details of posts Created, Abolished, Upgraded and Downgraded during the month of December, 2000.

M. Chockalingam,
Chief Engineer/Personnel.

POSTS CREATED

Sl.No.	Reference in which the orders issued.	Name of the Circle	Name of the Post	No. of Posts	Purpose for which the posts were created	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Per. B.P.(Ch) No.297 (Sectt.Br.) dt.2.12.2000.		Officer on Special Duty	1	Computeri- sation work	2 months from the date of taking charge.
2.	Per. B.P.(Ch) No.299 (Sectt.Br.) dt.4.12.2000.	C.E./IPP	S.E./Elecl.	1		For a period of one year.
3.	Per.B.P.(Ch.) No.300 (Sectt.Br.) dt.4.12.2000.	Techl.Audit	C.E./Techl. Audit	1		The post of CE/TA abolished was ordered to revive for a period of six months with effect from 1.12.2000 F.N.
4.	Memo.No.105216/ 406/G36/G362/ 2000-2, dt.5.12.2000.	P&C/Madurai	JA/Accounts	1	As requested by S.E.	Upto 28.2.2001.
5.	Per.B.P.(Ch.) No.310 (Sectt.Br.) dt.12.12.2000.	APTS Wing	AEE/Elecl. AE/Elecl. Inspector of Police Tester I Gr. Helper	1 1 1 1 1	Flying Squad	Six months from the date of utilisation
			Total	5		
6.	Per.B.P.(Ch.) No.227(Adm.Br.) dt.13.12.2000.	Gen./Kundah	Techl.Assistant	3	As requested by S.E.	One year from the date of utilisation.
7.	Per.B.P.(Ch.) No.233 (Adm.Br.) dt.21.12.2000.	Sivaganga EDC	AE/JE Elecl.I Gr. JE/Elecl. II Gr. Line Inspector Helper	1 4 4 1	Sanctioned for formation of 110/22 KVSS (N.Grid) at Devakottai.	For a period of one year from the date of utilisation.
			Total	10		

(1)	(2)	(3)	(4)	(5)	(6)	(7)
8.	Per. B.P.(Ch.) No.234 (Adm.Br.) dt.21.12.2000.	Ramnad EDC	AE/JE Elecl. I Gr. JE/Elecl. II Gr. Line Inspector Helper Total	1 4 4 1 ----- 10 -----	Sanctioned for formation of 110 KVSS (N.Grid) at Ramnad.	For a period of one year from the date of utilisation.
9.	Per.B.P.(Ch.) No.235 (Adm.Br.) dt.22.12.2000.	Gen./ Kundah	Revival: R.W.E.	173	As requested by S.E.	1.1.2001 to 31.12.2001.
10.	Per.B.P.(F.B.) No.36 (Adm.Br.) dt.22.12.2000.	Kovilkalappal G.T.P.P.	Provincial: R.W.E. Total	34 48 ----- 82 -----	For operation and Mainte- nance of 107 MW Kovil - kalappal GTPP/ Mannargudy.	One year from the date of utilisation.
11.	Per.B.P.(Ch.) No.320 (Sectt.Br.) dt.26.12.2000.	APTS Wing	JE/Elecl. I Gr.	2	Flying Squad	Six months from the date of utilisation.
12.	Per.B.P.(Ch.) No.247 (Adm.Br.) dt.29.12.2000.	SE/Hydro/El. SE/Trans- mission SE/Planning SE/P&C SE/LD & GO CE/R&D SE/GTS SE/Betterment Thermal SE/T&H.P.	CH.D'Man Head Draughtsman Sr.Draughtsman Draughtsman Head Draughtsman Sr.Draughtsman Draughtsman Senior Draughtsman Senior Draughtsman Senior Draughtsman Senior Draughtsman Draughtsman Senior Draughtsman Senior Draughtsman	1 1 3 4 1 3 1 2 1 1 1 1 1 2	For Decentrali- sation of Head Quarters Elecl. Drawing Branch.	Upto 28.2.2001.
			Total	----- 23 -----		

POSTS ABOLISHED

Sl.No.	Reference in which the orders issued.	Name of the Circle	Name of the Post	No. of Post	Purpose for which the posts were abolished	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Memo.No.105216/ 406/G36/G362/ 2000-2,dt.5.12.2000.	Gen./ T.Veli	J.A./Accounts	1	Consequent on the post created in P&C Madurai.	With immediate effect.

(1)	(2)	(3)	(4)	(5)	(6)	(7)
2.	Per.B.P.(Ch.) No.311 (Sectt.Br.) dt.12.12.2000.	Gen.Circle/ Kadamparai	S.E./Mechanical EA to SE (AEE) Steno to SE Office Helper	1 1 1 1		With effect from 31.12.2000.
			Total	4		
3.	Per.B.P.(Ch.) No.227 (Adm.Br.) dt.13.12.2000.	Generation Kundah	AE/Electrical Valve House Attendant Helper	4 4 2	Consequent on the posts created.	With immediate effect.
			Total	10		
4.	Per.B.P.(FB) No.36 (Adm.Br.) dt.22.12.2000.	Kovilkalappal GTPP	Assistant Typist	1 1	Consequent on the posts created.	With immediate effect.
			Total	2		
5.	Per.B.P.(Ch.) No.237 (Adm.Br.) dt.22.12.2000.	CFC/General Accts.Branch	Steno Typist	1	Consequent on the abolition of CFC/Revenue post in the Accounts Branch.	With immediate effect.
6.	Memo.No.074112/ 287/G36/G362/ 2000-3, dt.23.12.2000.	Gen./Kundah	AE/Civil	1		With immediate effect.
7.	Per.B.P.(Ch.) No.244, (Adm.Br.) dt.26.12.2000.	HP/Urachi- kottai	Asst.Accts.Officer	1	Consequent on the upgradation	With immediate effect.
8.	Per.B.P.(Ch.) No.320 (Sectt.Br.) dt.26.12.2000.	APTS	A.E./Elecl.	1		
9.	Per.B.P.(Ch.) No.247 (Adm.Br.) dt.29.12.2000.	CE/Hydro	Chief Head D'man Head D'man Senior D'man Draughtsman	1 2 14 6	Redeployed to the various offices in the Headquarters.	With immediate effect.
			Total	23		

POSTS UPGRADED

Sl.No.	Reference in which the orders issued.	Name of the Circle	Name of the Post	No. of Posts	Purpose for which the Posts were upgraded	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Per.B.P.(Ch.) No.244 (Adm.Br.) dt.28.12.2000.	H.P./Urachi- kottai	A.A.O. upgraded as A.O.	1	As requested by C.E.	One year from the date of utilisation.

**POSTS DOWNGRADED
-NIL-**

GENERAL ADMN. & SERVICES

PART - II

General Administration & Services

WAGE AND WORKLOAD REVISION 2000 - Wage Revision Committee to hold negotiations with Unions/Associations - Formation of Working Groups - Orders - Issued.

(Per.) B.P. (Ch.) No.296

(Secretariat Branch)

Dated 1st December 2000.
Karthigai 16, Vikrama.
Thiruvalluvar Aandu 2031.

Read:

(Per) B.P. (Ch.) No.273 (Sect.Br.) dated 6.11.2000.

Proceedings:-

In the proceedings cited, the Board had constituted a Committee to negotiate with the Unions/Associations on revision of pay scales, work allocation and staff pattern to take effect from 1.12.2000.

2. It was suggested to form Working Groups consisting of the officers of the Board to assist the Wage Revision Committee to achieve economy in expenditure by rationalising and revising the work loads in respect of the areas which are already covered by workload Settlements.

3. Accordingly, three Working Groups are constituted and the following Officers are nominated as Members of the Working Groups:-

Working Group-I

- i. Thiru A.S. Kandasamy/C.E./Transmission
- ii. Thiru M.G. Himalaya/S.E./Distn./South/Chennai

for field workmen (RWE) in
Distribution Circles.

Working Group - II

- i. Thiru S.Kathiresan, C.F.C./General
- ii. Thiru S.Parthasarathy, S.E./C.E.D.C/Central.

for Revenue accounting, Assessment
and Collection staff in Distribution
Circles.

Working Group - III

- i. Thiru S.Kathiresan, C.F.C./General
- ii. Thiru B. Jayaraman, Director of Training

for Stores Staff.

4. The Members of the Working Groups will examine and suggest suitable revised workload standards and submit their reports to the Chairman/Wage Revision Committee based on which the Wage Revision Committee will hold negotiations with Unions/Associations.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

Memorandum No.132502/G43/G.431/2000-1 (Administrative Branch), dated 2.12.2000.

Sub: Establishment - Bonus and Ex-gratia to Workmen
for 1999-2000 - Ordered - Regarding.

Some Superintending Engineers have raised a clarification as to whether the employees who worked during the accounting year 1999-2000 dismissed on the measure of penalty in D.P. initiated against them subsequently are eligible for bonus and ex-gratia payment. The matter has been referred to the Legal Adviser to Board.

2. The opinion of the Legal Adviser to Board has been communicated to all the Superintending Engineers of the Board.

" Under Section 9 of the Bonus Act 1965, an employee shall be disqualified from receiving bonus, if he is dismissed from service for fraud or riotous or violent behaviour while on the premises of the establishment or theft, mis-appropriation or sabotage of any property of the establishment. In wheel and Rim Co. of India Limited - Vs- Govt. of Tamil Nadu 1971 II LLJ 299, the Hon'ble High Court, Madras has held that a dismissed employee will be disqualified to receive bonus not only for the year, the dismissal was ordered but to all amounts of bonus due on the date of dismissal in respect of earlier years also. In view of the above, the dismissed employees are not entitled to bonus."

3. The receipt of the Memorandum may be acknowledged.

M. Chockalingam,
Chief Engineer/Personnel.

* * *

Establishment - Tamil Nadu Electricity Board - System of conducting Examination for promotion to the post of all Class I Officers of Non-Technical up to the level of Under Secretary - Orders - Issued.

(Permanent) B.P. (FB) No.95

(Secretariat Branch)

Dated the 2nd December 2000.
Kaarthigai 19, Vikrama
Thiruvalluvar Aandu 2031

Proceedings:-

The Tamil Nadu Electricity Board is a large organisation requiring personnel with competence and technical skill to man the various wings. Unless the Officers possess necessary skills and technical knowledge, it would be very difficult for the Tamil Nadu Electricity Board to run the organisation efficiently. The present system of promotion purely based on seniority has led to deterioration in quality of various levels affecting consumer service. It is, therefore, desirable to introduce a proper system based on merit and ability for promotion so that the Officers are motivated to obtain higher skills and knowledge continuously. With the above objective in view, it is proposed to have a system of examination for promotion at the following levels:-

1. Deputy Chief Chemist.
2. Deputy Chief Internal Audit Officer.
3. Deputy Director of Sports.
4. Deputy Financial Controller.
5. Personnel Officer.
6. Stores Controller.
7. Under Secretary.

2. The questions in the examination will be objective type. A large number of questions have been obtained from the Senior Officials of Tamil Nadu Electricity Board and the question bank has already been prepared. The questions will be updated from time to time reflecting the needs of the organisation.

3. The Tamil Nadu Electricity Board, after careful consideration, directs that the system of conducting examination, for consideration for appointment to the posts mentioned in para 1 above be implemented besides the other existing provisions available for promotion.

4. The candidates eligible for promotion shall write the examination that will be conducted periodically. After the examination, the Departmental Promotion Committee shall consider them based on their seniority, service records and the marks obtained in the examination and take a decision about their promotion.

5. Receipt of these orders shall be acknowledged.

(By Order of the Board)

G. Gnanaselvam,
Secretary.

Establishment - Tamil Nadu Electricity Board - Creation of one post of Officer on Special Duty in the grade of Additional Chief Engineer to complete the ongoing Computerisation works for Inventory Management - Appointment of Thiru R.K.Ayyadurai, Additional Chief Engineer (Retired) as Officer on Special Duty - Orders - Issued.

(Permanent) B.P. (Ch.) No.297,

(Secretariat Branch)

Dated the 2nd December 2000.
Kaarthigai 17, Vikrama
Thiruvalluvar Aandu 2031.

Proceedings:-

The Board is taking action to computerise the Inventory Management and the works is in progress.

2. To complete the ongoing Computerisation works for Inventory Management, the Chairman/Tamil Nadu Electricity Board, hereby directs that one post of Officer on Special Duty in the grade of Additional Chief Engineer/Electrical be created for a period of 2 (two) months.

3. Consequent on the creation of the post of Officer on Special Duty in para 2 above, the Chairman/Tamil Nadu Electricity Board, hereby directs that Thiru R.K. Ayyadurai, Additional Chief Engineer(Retired) be appointed as Officer on Special Duty for a period of 2 (two) months from the date of his taking over of this assignment. He shall be paid a fixed payment of Rs.10,000/- (Rupees ten thousand only) per month, and vehicle allowance of Rs.2,000/- (Rupees two thousand only) per month. He is also permitted to retain the residential telephone for a period of two months.

4. His pay, vehicle allowance and telephone bills will be claimed and paid by the Personal Assistant/ Unit.III/Materials Management Wing.

5. The expenditure is debitable to "Tamil Nadu Electricity Board - Funds - Revenue Expenses - 75 - Employees cost - 75 -1 - Salaries - 75-110 - Salaries - Provincial".

6. Receipt of these orders shall be acknowledged.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

TENDER REGULATIONS - Exemption from payment of EMD/SD to SSI Units and State Public Sector Undertakings - Consolidated orders issued by Government of Tamil Nadu - Amendment to Clause 10.2, 13.1(i) and Note under Clause 13.2 of the Tender Regulations 1991 - Amendment No.57 to the Tender Regulations 1991 - Issued.

(Per) B.P. (FB) No.28

(Accounts Branch)

Dated 4.12.2000.
Kaarthigai 19, Vikkrama Aandu
Thiruvalluvar Aandu 2031.

Read:

- i. Minutes of 838th meeting of the Board held on 27.11.2000 (Item No.25)
- ii. G.O.Ms.No.387 Finance (BPE) Department, dated 3.8.98 of Govt.of Tamil Nadu.

Proceedings:-

Granting of exemption from payment of Tender Fees (Cost of Tender documents) to the SSI units and State Public Sector Undertakings has been engaging the attention of the Board, for some issue now, on representation from SSI units and State Public Sector Undertakings.

2. The Government of Tamil Nadu, has, in its G.O.Ms. No.387, Finance (BPE) Department, dated 3.8.98 has ordered grant of exemption to the SSI Units and State Public Sector Undertakings from payment of Tender fees, EMD & SD.

3. The Tamil Nadu Electricity Board, after careful consideration adopts the Government's orders and hereby orders the following amendments to the clauses 10.2, 13.1 (i) and Note under Clause 13.2 of the Tender Regulations 1991.

AMENDMENT

T.R. Clause	Existing	Amendment
10.2	The tender forms and documents shall be supplied to the intending tenderer at the rate prescribed from time to time by the Competent Authority.	The following may be added to the existing clause 10.2 of the T.R. 1991. "However, the tender forms and connected documents shall be supplied free of cost, on written request, to the SSI Units located within the State and registered with the Tamil Nadu Small Industries Development Corporation or the National Small Industries Corporation or holding Permanent Registration Certificate from the District Industries Centres of Directorate of Industries and Commerce in respect of those items for which the Registration Certificate has been obtained and State Government Public Sector Undertakings"
13.1 (i)	Small Scale Industries Registered within the State of Tamil Nadu. Registration Certificate has been NIL	The following may be added to the existing clause 13.1 (i) of the T.R. 1991. " The Small Scale Industrial Units located within the State and registered with the Tamil Nadu Small Industries Development Corporation or the National Small Industries Corporation or holding permanent Registration Certificate from the District Industries Centres of Directorate of Industries and Commerce in respect of those items for which the obtained". The following may be added as clause 13.1 (vi) of the T.R. 1991 as a new clause. "Small Scale Industrial Units located outside the State and such of these units registered with National Small Industries and Corporation in respect of items manufactured by them"
Note under Clause 13.2	The tenderers other than foreign tenderers who are exempted from payment of EMD/SD should furnish an undertaking on a non-judicial stamp paper of appropriate value to pay an amount equivalent to EMD/SD in case of non-fulfilment of the the conditions stipulated in the contract.	The existing para of note under clause 13.2 of the T.R. 1991 may be numbered as (i) and the following may be inserted in the existing para after the words " other than foreign tenderers" "/SSI Units/State Government Public Sector Undertakings". The following paras may be added to note under clause 13.2 of the T.R. 1991 as (ii) and (iii). ii) The SSI units who are exempted from payment of EMD/SD should furnish an undertaking on a non-judicial stamp paper of appropriate value to pay as penalty an amount equivalent to the actual loss incurred, whichever is less, in the event of non-fulfilment

T.R. Clause	Existing	Amendment
		<p>or non-observance of any of the conditions stipulated in the contract, consequent on such breach of contract.</p> <p>iii) The State Government Public Sector Undertakings, who are exempted from payment of EMD/SD, should pay as penalty an amount equivalent to the amount fixed as S.D. in the event of non-fulfilment or non-observance of any of the conditions stipulated in the contract.</p>

(By Order of the Board)

S. Kathiresan,
Chief Financial Controller/General.

* * *

ESTABLISHMENT - CLASS II SERVICE - Filling up of vacancies of Assistant Engineer/Electrical by internal selection - Conducting of Examination - Orders Issued.

Permanent B.P. (FB) NO.31

(Administrative Branch)

Dated 04.12.2000
Karthigai 19, Vikkrama.
Thiruvalluvar Aandu 2031.

Proceedings:-

As per existing provisions in the Service Regulations, the post of Assistant Engineer/Electrical shall be filled in the ratio of 1:1 by internal selection and direct recruitment. The qualification prescribed for the post of Assistant Engineer/Electrical i.e. B.E./A.M.I.E. Hitherto the selection to the post of Assistant Engineer/Electrical by internal selection was made on the basis of service rendered after acquiring the B.E./A.M.I.E. degree or its equivalent qualification.

2. At present in Tamil Nadu Electricity Board there are qualified persons working in various categories in Tamil Nadu Electricity Board are routinely absorbed as Assistant Engineers without any verification of their knowledge, aptitude and skills. It is, therefore, desirable to introduce a rigorous selection process for the selection of internal candidates since a number of them have acquired B.E. degree as part-time students and they may not have adequate technical knowledge. As large number of internal candidates are available for filling up the vacancies, it is decided to have a selection process instead of routine absorption, so that the Tamil Nadu Electricity Board gets quality candidates for manning the posts of Assistant Engineers. Accordingly, it is decided to have an examination for selection of candidates for the post of Assistant Engineers from among the employees who have completed one year of regular service and those who have necessary educational qualifications will be eligible for selection as internal candidates.

3. After careful consideration the Tamil Nadu Electricity Board hereby directs that the internal selection to the post of Assistant Engineer/ Electrical shall be made by conducting an examination in future from the existing eligible employees who are qualified.

(By Order of the Board)

M. Chockalingam,
Chief Engineer/Personnel.

ELECTRICITY - Formation of Generation Wing under Tamil Nadu Electricity Board - Tamil Nadu Electricity Board (Generation Wing) Service Regulations - Orders - Issued.

Per. B.P. (FB) No.33

(Administrative Branch)

Dated: 08.12.2000
Karthigai 23 Vikrama
Thiruvalluvar Aandu 2031.

Read:

1. Secretariat Branch Memo No. 88000/A10/A101/2000-8 dt.8.11.2000.

Proceedings:-

The increasing demand placed on electricity industry by virtue of economic and technological development has necessitated judicious utilisation of existing generating plants and plan for future plants considering various fuel options to achieve economy in generation. The need for specialisation in operating these generating stations and future project planning, execution had been felt in the present power scenario.

2. The Board has also decided to improve the efficiency of the Generation Stations by posting personnel with qualification and aptitude for generation and to retain them in the Generation Wing itself, so that the experience gained by them can be better utilised for the advantage of the Board in the field of Generation of Electricity. Posting of persons with no experience in Generation to Thermal and Hydro Stations affects the Performance of Thermal and Hydro Stations. The Board has therefore decided to form a separate Generation Wing under the overall control of the Tamil Nadu Electricity Board, to improve efficiency, Productivity and in public interest.

3. The Tamil Nadu Electricity Board accordingly directs that a Generation Wing be formed with effect from the date of issue of these proceedings to look after the various Generating Stations in the Board.

4. The Generation Wing will comprise the following power generation plants and projects:

- i) All Thermal Power Stations now maintained by the Board and the stations to be set up in future.
- ii) All existing Hydro Electric Stations maintained by the Board and the stations to be set up in future.
- iii) All existing Gas Turbine Stations of the Board and the Stations to be set up in future.
- iv) All existing Non Conventional Energy Sources Stations of the Board and the Stations to be set up in future
- v) Power Projects under execution.

5. The Board also directs that the officers and staff in generating stations including the following Circles will form part of the Generation Wing.

- i) Generation Circle at Erode
- ii) Generation Circle at Tirunelveli
- iii) Generation Circle at Kundah
- iv) Generation Circle at Kadamparai
- v) Wind Energy Development Circle at Tirunelveli

6. The Tamil Nadu Electricity Board also approves the Tamil Nadu Electricity Board Generation Wing Service Regulations as detailed in the Annexure to this B.P. which are applicable to the staff in the Generation Wing.

(By Order of the Board)

R. Poornalingam,
Chairman.

Encl: Annexure I to IV

ANNEXURE - I

TAMIL NADU ELECTRICITY BOARD GENERATION WING SERVICE REGULATIONS.

In exercise of the powers conferred under Section 79(c) of the Electricity (Supply) Act, 1948, the Tamil Nadu Electricity Board hereby makes the following regulations to regulate the conditions of service of employees to be appointed in the Generation Wing of the TNEB.

The Tamil Nadu Electricity board Service Regulations, the Tamil Nadu Electricity Board Employees' Conduct Regulations, the Tamil Nadu Electricity Board Employees' Discipline and Appeal Regulations and the Tamil Nadu Electricity Board Standing Orders in respect of both the workmen engaged in Clerical department and other than those engaged in Clerical work, as the case may be, shall apply to the employees of generation wing, subject to the following Regulations:

The Regulations hereby made shall be deemed to have come into force on and from the date of issue of B.P. viz. 08-12-2000.

2. REGULATIONS:-

1. These Regulations may be called the Tamil Nadu Electricity Board (Generation Wing) Service Regulations.

2. These Regulations shall be made applicable to- all persons to be appointed and who were already appointed to various categories of posts in the Generation Wing of the Tamil Nadu Electricity Board including those got transferred to the Generation Wing from the services of other wings of the Board:

Provided that these Regulations shall not apply to those persons appointed to the Services of the Generation Wing on tenure basis, on Foreign service terms, on Deputation basis, or on Casual employment.

3. DEFINITIONS:-

In these regulations unless the context otherwise requires, -

(i) 'APPOINTING AUTHORITY' means the authority competent to make appointments to the various posts in the cadres and categories as specified in the ANNEXURE-II

(ii) 'CERTIFICATE', 'DIPLOMA', "DEGREE" 'MASTERS DEGREE', 'DOCTORATE', respectively means such certificate, Diploma, Degree, Master's Degree or Doctorate granted by a University established by Law and recognised by the University Grants Commission of India for purposes of grants or any other institution or organisations recognised by the statutory bodies constituted by law for the purpose of according such recognition or recognised as equivalent thereto by the Government;

(iii) 'CATEGORY', 'POST' respectively means the category or post as indicated in column (2) of Annexure-III.

(iv) 'CHAIRMAN', 'ACCOUNTS MEMBER' respectively means the Chairman and Accounts Member of the Tamil Nadu Electricity Board appointed by the Government.

(v) 'GENERATING STATION' means any station for generating Electricity including any building and Plant used for that purpose and the site thereof, a site intended to be used for a generating station, and any building used for housing the operating staff of a generating station including penstocks, head and tail works, main and regulating reservoirs, Dams and other Hydraulic works in the Hydro Electric Stations.

(vi) 'GENERATION WING' means the controlling wing of all generating stations such as Thermal, Hydel, Wind Mill, Gas Turbine and any other conventional and non-conventional generating stations.

(vii) 'DIRECT RECRUITMENT' means appointment made to any post otherwise than by promotion and includes lateral movement to a post.

(viii) 'EMPLOYEE' means any person who is appointed to any post or category in connection with the affairs of the generation wing and whose name is included in the pay roll of the generation wing;

(ix) 'EQUIVALENT POST', 'EQUIVALENT CATEGORY' respectively means the posts, categories of posts indicated as equivalent to a post or category in the generation wing as stated in the Annexure-IV.

(x) 'EX-SERVICEMAN' means a person who can be treated as such by the Government as per the Rules in force for the purpose from time to time;

(xi) 'GOVERNMENT' means the Government of Tamil Nadu;

(xii) 'LATERAL MOVEMENT' means movement of an employee from one post to another equivalent post in the other disciplines of the Generation wing;

(xiii) 'MEMBER (GENERATION)' means the Member (Generation) of the Tamil Nadu Electricity Board appointed by the Government;

(xiv) 'PHYSICALLY HANDICAPPED CANDIDATE' means a person who suffers from physical handicap as declared by the Government from time to time;

(xv) 'PROBATION PERIOD' means the period during which an employee is appointed on probation so as to enable the appointing authority to assess his suitability for continuance in the post held by him on probation;

(xvi) 'PROMOTION' means appointment of an employee from one post or category or grade to another post category, or grade which is of higher duties and responsibilities.

(xvii) 'QUALIFYING EXAMINATION' means the examination or examinations leading to acquisition of the qualification prescribed as a minimum requisite qualification as indicated in ANNEXURE-II.

(xviii) 'QUALIFYING SERVICE' means the number of years of service required to be put in by the employee in the post or category or grade from which he is considered for promotion to a higher post, category or grade as the case may be.

(xix) 'SCHEDULED CASTE', 'SCHEDULED TRIBE', 'OTHER BACKWARD CLASS' respectively means such caste, tribe as notified by the Government from time to time.

(xx) 'SELECTION' means selection of any person for appointment or promotion to any post, category or grade of the generation wing in accordance with the provisions of these Regulations by the competent authority or a selection committee or the Departmental Promotion Committee appointed for the purpose as the case may be.

(xxi) 'SENIORITY' means the inter-se ranking assigned to an employee in the post to which he is appointed.

4. BRANCHES IN THE GENERATION WING:- (1) The generation wing shall consist of three branches, viz.,

- (i) Administrative Branch;
- (ii) Technical Branch; and
- (iii) Accounts Branch.

(2) The categories of posts, the scales of pay, methods of appointment, qualifications required etc., shall be as specified in the ANNEXURE -II to IV to these Regulations.

5. METHODS OF APPOINTMENT:- Appointment to the posts shall be made by the appointing authorities concerned by the following methods, viz,-

- a) Direct Recruitment;
- b) Promotion.

Explanation:- Absorption of Deputationists from Government and non Government organisations, internal selection and lateral movement of persons from various posts shall be treated as direct recruitment.

6. DIRECT RECRUITMENT:- (1) Appointment by direct recruitment wherever prescribed shall be made by inviting a panel of names from the employment exchange by notifying the vacancies to the exchange concerned duly specifying the qualifications required and other conditions of appointment and also inviting applications from other candidates by advertising such vacancies in leading news papers of which one should be a Tamil daily.

(2) The selection of candidates through direct recruitment will be through a procedure prescribed by the Board from time to time.

Provided that the rule relating to reservation and the communal rotation (Roster) shall be followed in drawing the list of candidates suitable for appointment by direct recruitment.

7. PROMOTION:-

(1) Only Approved Probationers will be considered for promotion. In making promotion to various posts, categories, and grade wherever prescribed seniority will be considered only when merit and ability are approximately equal. The merit of the candidates shall be assessed on the basis of the written test, interview and performance assessment record of the officer concerned.

(2) The scope of promotion and the percentage of vacancies ear-marked for promotion are as specified at the appropriate places in the ANNEXURE-II.

8. DEPARTMENT PROMOTION COMMITTEE:-

(1) Department Promotion Committee shall be constituted by the Appointing authorities concerned to assess the suitability of the candidates and to make recommendation for promoting such candidates for the posts to which the promotion is considered.

(2) The Department Promotion Committee for the post of Assistant Executive Engineers and Executive Engineers shall be headed by the Member (Generation) and shall consist of three other members to be nominated by the Member (Generation).

(3) The Department Promotion Committee for the posts of Superintending Engineer and equivalent cadre shall be headed by the Member (Generation) and shall consist of three other Members viz., Accounts Member, one Chief Engineer nominated by the Chairman and an expert in the field also nominated by the Chairman.

(4) The Department Promotion Committee for the posts of Chief Engineer and equivalent cadre shall be headed by the Chairman and shall consist of Accounts Member, Member (Generation) and one expert in the field nominated by the Chairman.

(5) The Recommendations of the Department Promotion Committee will be considered by the Appointing Authority and orders promoting the employees will be issued while doing so the ranking of the promoted employees shall be assigned by the Authority afresh.

(6) The number of employees to be considered for promotion shall be with reference to the number of vacancy as stated below:-

VACANCY	EMPLOYEES
1	5
2	9
3	10
4 or more	3 employees for Each vacancy.

The Department Promotion Committee shall meet twice a year normally in January and July. The Appointing Authority may cause the meeting to be conducted on more occasions if required.

9. COMPUTATION OF EXPERIENCE:-

In computing the period of experience for purposes of considering for promotion the period of leave without pay for any reason otherwise than on sickness or for prosecution of higher studies will be excluded.

10. LATERAL MOVEMENT:-

(1) Notwithstanding anything contained in these regulations an employee making a written request may be posted on lateral movement to hold another equivalent post subject to the following conditions:-

- the employees shall possess qualification prescribed for the other post and have the Experience which is considered as essential for the discharge of duties enjoined upon that other post in the opinion of the Appointing Authority;
- the employees should have completed the probationary period satisfactorily in his present post;
- such lateral movement shall be in the interest of the service of the Generation Wing as determined by the Appointing Authority;
- the Appointing Authority shall conduct such test or interview or any other suitable process of selection as may be considered necessary before ordering the redesignation on lateral movement;
- the option for lateral movement will be entertained only once in three years.

(2) In the interest of administration the Generation Wing has also got the full powers to effect lateral movement, on its own accord, in any cadre, from one Generation Unit to any other Generation Unit in any Generation discipline.

11. APPOINTMENT ON CONTRACT:-

Notwithstanding anything contained in these regulations it shall be competent for the Tamil Nadu Electricity Board to make appointment to a post on contract basis any person who satisfies the

conditions relating to educational qualifications, experience as prescribed for various posts in the Annexure to these regulations on such terms and conditions and for such period as may be necessary but not exceeding five years.

12. APPOINTMENT ON DEPUTATION:-

Notwithstanding anything contained in these Regulations, any post in the Generation Wing can be filled by availing the services of a person from Government or other organisations owned by the Government by way of deputation as deemed necessary by the Appointing Authority subject to the condition that such person fulfils the eligibility criteria prescribed for post specified under direct recruitment method.

13. DISQUALIFICATION FOR APPOINTMENTS:-

(1) No persons shall be eligible for appointment to a post in the Generation Wing unless he is a citizen of India.

(2) No man who has more than one wife living and no woman who has married a man already having a wife living, shall be eligible for appointment to a post in the Generation Wing.

(3) No person who attempts to obtain extraneous support by any means for sponsoring his candidature from officials or non officials shall be eligible for appointment to a post in the Generation Wing and if it be noticed and proved that any person is selected to any posts through such attempts such selection is liable to be cancelled.

(4) No applicant for appointment to any post in the Generation Wing shall be eligible for appointment if he, at the time of application is already in employment unless he has made the application through proper channel.

(5) No person who is eligible for appointment to any of the posts in the cadre of Assistant Engineers & Equivalent and below shall be appointed to the post on the ground of his selection unless-

- a) he has passed Language test in Tamil as may be prescribed by the Generation Wing; or
- b) he has studied Tamil as one of the subjects for SSLC or equivalent examination; or
- c) he has passed SSLC or equivalent examination through Tamil medium; or
- d) he has passed the Tamil Language certificate examination held by the Universities established by Law or an examination as declared equivalent thereto by the Government:

Provided that the Language test shall be for 100 marks and of standard of third language in SSLC.

(6) No person shall be eligible for appointment to a post in the Generation Wing if he-

- (a) is or has been a member of or has associated himself with any body or association after such body or association is declared as Unlawful;
- (b) has participated in or is associated with any activity or programme
 - i) aimed at organised breach or defiance of any law involving violence.
 - (ii) aimed at subversion of the Constitution of India; OR
 - (iii) which is prejudicial to the interest of the sovereignty and integrity of India or the security of the State OR
 - (iv) which promotes on grounds of religion, race, language, caste or community, feeling of enmity or hatred among different sections of the people; OR
- (c) is dismissed from service under the Government of India or the Government of any State, or any Public Sector Undertaking; OR
- (d) is or has been permanently debarred or disqualified by the Union Public Service Commission or any State Public Service Commission from appearing for any examination or selections conducted by such Commission.

(7) No person who is or has been convicted of an offence involving moral turpitude or who is or has been temporarily debarred or disqualified by the Union of India or any State Public Service Commission from appearing for examinations or selection conducted by it shall ordinarily be appointed to the posts in the Generation Wing unless the Generation Wing after a review of all the circumstances consider him suitable for such appointment.

14. AGE LIMIT FOR APPOINTMENT:-

Save as otherwise provided, in respect of any post in the Generation Wing, every candidate for appointment by direct recruitment should have attained the age of 18 (eighteen) years. The maximum age limit is 35 years.

Provided that-

i) in the cases where certain number of years of experience is prescribed as an essential qualification or desirable experience/qualification are prescribed for recruitment, the Tamil Nadu Electricity Board may fix the maximum age limit as may be considered necessary.

(ii) For a widow the maximum age limit in each category may be increased by 10 years.

(iii) For Ex-Serviceman relaxation in age equal to the number of years of service rendered in the Armed Forces will be given. On such relaxation the age should however not exceed 45 years.

15. CONDITIONS RELATING TO SUITABILITY AND CERTIFICATE OF CHARACTER:-

No person shall be appointed to any post in Generation Wing unless the Appointing Authority is satisfied that he is of good character and is in all respects suitable for appointment for any post in the services of the Generation Wing. Every candidate selected for direct recruitment shall furnish such Certificate in this regard as may be specified by the Appointing Authority.

16. CONDITIONS RELATING TO PHYSICAL FITNESS:-

No candidates selected for appointment to a post shall be appointed unless he produces a Certificate of fitness from such Medical Authority as may be specified by the Appointing Authority.

17. JOINING TIME:-

(1) A candidate appointed by direct recruitment shall as soon as possible from the date of order of appointment assume charge of the post specified by the Appointing Authority but not later than 30 days from the date of offer communicating the selection/appointment.

EXPLANATION:-

For the purpose of this rule, the date of the order of appointment means the date of despatch of the order of appointment by Registered Post to the address given by the Candidate.

(2) Notwithstanding anything contained in sub-regulation (1), the Appointing Authority or an authority delegated with such power may on the application of the candidate and if satisfied that there are good and sufficient reasons for doing so, by order in writing, grant such further time as it may deem necessary subject, to the condition that he or she will stand to lose his seniority, if the extension sought for is beyond 30 days. In such cases, their seniority will be reckoned from the date of reporting for duty in the post to which he is appointed. However, the maximum extension being not more than three months.

(3) The name of the candidate who fails to assume charge of the post within the time specified in sub-regulation 17(1) or within the further time granted under sub-regulation 17(2) shall stand deleted from the list of selected candidates and shall cease to be eligible for appointment to the post to which he or she was so selected for the appointment.

18. UNDERTAKING REGARDING MINIMUM SERVICE IN THE GENERATION WING:-

Every candidate appointed to a post by direct recruitment in the Generation Wing shall, after completion of training at the time of joining duty execute a Service Agreement in writing in the manner and form prescribed undertaking to serve the TNEB in Generation Wing for a minimum period of five years. Otherwise, the entire cost of his training is liable to be recovered from him.

19. APPOINTMENT BY PROMOTION OR BY DIRECT RECRUITMENT IN CERTAIN CASES:-

Notwithstanding anything contained in these regulations the Appointing Authority may:

- (a) fill by direct recruitment a vacancy to be filled by promotion if it is satisfied that the persons eligible to be considered for promotion are not suitable to be so promoted; or
- (b) fill by promotion a vacancy required to be filled by a direct recruitment; or

(c) fill by making incharge/independent charge arrangements temporarily on the basis of seniority cum merit, a vacancy required to be filled by direct recruitment where selection to the post has not been finally made and there is likelihood of delay in making direct recruitment. No such arrangement shall be made unless a requisition has been sent to the Appointing Authority concerned for selection of a suitable candidate. A candidate so placed in-incharge/independent charge of a higher post under this sub-regulation shall not have any preferential claim for regular promotion and also shall not count the period of service so put in incharge/ independent charge and also shall not count the period of service in the promoted post for seniority and he shall revert to his original post on the expiry of such temporary period or on the appointment of a regular candidate, whichever event happens earlier.

20. TRAINING AND PROBATION:-

All appointments by direct recruitment to a post in the Generation Wing shall be on training for two years and on satisfactory completion of training, they will be on probation on the regular time scale for a further period of two years.

21. DECLARATION OF SATISFACTORY COMPLETION OF PROBATION:-

At the end of the prescribed or the extended period of probation, as the case may be, the appointing authority shall consider the suitability of the probationer to hold the post to which he was appointed; and if the said authority decides that the probationer is suitable to hold the post to which he was appointed, it shall, as soon as possible, issue an order declaring that the probationer has satisfactorily completed his probation and such an order shall have effect from the date of the expiry of the prescribed or such extended period of probation.

(2) A probationer shall not be considered to have satisfactorily completed the period of probation unless a specific order to that effect is passed duly indicating the date from which the services of the probationer stand declared. Any delay in the issue of an order shall not entitle the probationer to be deemed to have satisfactorily completed the period of his probation.

22. DISCHARGE OF A PROBATIONER DURING THE PERIOD OF PROBATION:-

(1) Notwithstanding anything contained in these regulations the appointing authority may, at any time during the period of probation, discharge from service a probationer on grounds arising out of the conditions, if any, imposed by the regulations or in the order of appointment, or on account of misrepresentation of facts in the application made for appointment or on account of his unsuitability for the post.

(2) An order discharging a probationer shall indicate the grounds for the discharge of the probationer.

23. TERMINATION FOR MISCONDUCT:-

No order terminating the services of a probationer, whether during or at end of the period of probation for any misconduct, shall be passed except in accordance with the TNEB Employees' Discipline and Appeal Regulations.

24. INCREMENT AND PAY DURING THE PERIOD OF PROBATION:-

A probationer appointed at the initial or higher stage in a time scale shall not draw any increment after the expiry of such period unless and until he is declared to have satisfactorily completed his probation.

25. ABSORPTION OF DEPUTATIONISTS:-

(1) The Member (Generation) shall be the Authority Competent to consider the question of absorption of the services of the employees of the State or Central Government, or Electricity Board, or any Public Sector of the State or Central either working on deputation or otherwise in the interest of the services of the Generation Wing. Such absorption shall be effective from the date indicated in the order of absorption.

(2) The terminal benefits till the date of absorption shall be regulated as per the relevant rules of the respective organisations and the terms and conditions of deputation as agreed to by the Generation Wing. The terminal benefits for the period from the date of absorption to the date of retirement shall be regulated as per the relevant regulations of the Generation Wing.

(3) Only the Earned leave at the credit of the persons so absorbed shall be transferred to the Generation Wing upon payment of leave salary calculated based on the total emoluments of the employee as on the date of absorption by the respective organisation to the Generation Wing. All other leave at their credit shall be deemed to have lapsed on such absorption in Generation Wing.

26. SENIORITY:- (1) Seniority in the case of absorbed persons:- The seniority of those persons absorbed in the services of Generation Wing shall be determined in the following manner:-

(i) where the absorption takes place in a group in the case of group of employees working in the same cadre as in the Parent Department the seniority of such persons will be fixed with reference to the interse-ranking as obtaining in the Parent Department as on the date of such absorption.

(ii) in the case of an employee or a group of employees working in Generation Wing on deputation and who was or were accorded temporary promotion in the Generation Wing prior to absorption, the seniority will be fixed as per order of ranking assigned while according such promotion in the Generation Wing. In integrating the services of the absorbed persons with that of the regular employees of Generation Wing the date of promotion/appointment to the present cadre shall be the first criterion for integration of seniority. However, where such promotions/ appointments are made in a block, then such integration shall not disturb the order of ranking assigned for that promotion/ appointment. In the event of tie, the length of service in the previous cadre either in Generation Wing or in parent department will be considered. In the event of further tie the date of birth shall be the criterion.

(ii) Seniority-General:

There shall be maintained a separate seniority list for each category of post cadre-wise and discipline-wise. At the entry level, the Select List finalised by the respective Selection Committee shall be the basis for preparing seniority and the position obtained in the Select List shall be preserved in assigning interse position in the Seniority. The interse seniority in the case of candidates positioned in batches (if any), drawn from the same Select List, due to the operation of the roster prescribing reservation of vacancies for SC/ST/MBC/OBCs, the seniority of such candidates shall be arranged batch-wise and their interse position within the batch shall be on the basis of the Select list:

Provided that all direct recruits to various categories of posts in the Generation Wing shall be placed below those who hold the respective category of posts at the time of formation of the Generation Wing in arriving seniority in the respective category.

27. RELAXATION:-

Notwithstanding any thing contained in these regulations it shall be competent for the Tamil Nadu Electricity Board to relax any of the provisions of these Regulations in favour of an individual employee or a class of employees in the interest of the administration and efficient functioning of the Generation Wing.

28. REMOVAL OF DOUBTS:-

In case any doubt arises in the matter of interpretation of these regulations the decision of the Tamil Nadu Electricity Board in respect to such doubt shall be final.

ANNEXURE - II

PERSONNEL & ADMINISTRATION

SL. NO.	CATEGORY OF POSTS	METHOD OF APPOINTMENT	QUALIFICATION	APPOINTING AUTHORITY
(1)	(2)	(3)	(4)	(5)
1.	CE/HRD	By Promotion on Selection	i) A Bachelors Degree I Class in Electrical & or Mechanical Engineering. ii) A Diploma in Personnel Management and Industrial Relation/Social Services/ Social work. iii) Service of 25 years.	BOARD
2.	SENIOR PERSONNEL OFFICER	By Promotion on Selection	i) A Bachelor's Degree I Class ii) A Diploma in Personnel Management and Industrial Relation/Social Services/ Social Work. (OR) a Degree in law. iii) Service of 20 years. Preference shall be given to the candidates who possesses a Bachelor's Degree in law.	CHAIRMAN
3.	ADM. OFFICER	By Promotion on Selection	i) A Bachelor's Degree in I Class ii) Service of 15 years. iii) A Diploma in Personnel Management & Industrial Relation/Social Services/ Social Work.	C.E./ H.R.D.
4.	ASSISTANT ADM.OFFICER	By Direct Recruitment (33% of Posts)	i) A Bachelor's Degree I Class ii) A Post - Graduate Diploma in Personnel Management or Social work with specialisation in Personnel Management or MBA with specialisation in Personnel Mangement or LLB with specialisation in Labour Laws (OR) A I Class Degree with Post Graduate Diploma in Personnel Management of NIPM or Equivalent.	C.E./H.R.D.
		II. By Promotion On Selection (67% of Posts)	i) A Bachelor's Degree. ii) Service of 10 years as Superintendent.	

(1)	(2)	(3)	(4)	(5)
5.	LABOUR WELFARE OFFICER	Direct Recruitment (or) appointment by Internal Selection	<p>i) A degree of any University or Institution recognised by the University Grants Commission for the purpose of its grant and</p> <p>ii) A degree or diploma in Social work or Social Science or Labour Relations or Social Welfare with Labour Laws or Industrial Relations as a Principal subject, from any University or Institution recognised by the University Grants Commission, for the purpose of its grant or a Diploma in Labour Laws awarded by the Indian Law Institute, New Delhi or post graduate Diploma in Labour Laws and Administrative Laws conducted by the Madras Law College or a degree in Law of any University or a post graduate Diploma in Labour Administration awarded by the Tamil Nadu Institute of Labour Studies or a post Graduate Diploma in Personnel Management, Industrial Relations and Labour Productivity Councils or any other Institution recognised by the State Government and</p> <p>c) Adequate knowledge of the language spoken by the majority of the workers in the Factory to which he is attached.</p>	C.E./H.R.D.
6.	SUPERINTENDENT	By Promotion on Selection	<p>i) A Bachelor's Degree.</p> <p>ii) Service of 10 years as Assistant (or) in the case of Non-Graduate a service of 15 years is necessary.</p>	CE/H.R.D.
7.	ASSISTANT	By Direct Recruitment	<p>i) A 1st Class Bachelor's Degree</p> <p>ii) Post Graduate Diploma in Personnel Management or Social Work with specialisation in Personnel Management/Industrial Relations recognised by Govt. of Tamil Nadu for appointment to superior posts or as Welfare Officer under the Factories Act or a Bachelor's Degree in Law or Diploma in Labour Laws or MSW/MBA with specialisation in Personnel Management.</p>	CE/H.R.D.
8.	ASSISTANT CUM STENO	By Direct Recruitment	<p>i) A 1st class Bachelor's Degree</p> <p>ii) Typewriting English & Tamil both Senior grade.</p> <p>iii) Knowledge in Computer Operation.</p> <p>iv) The Govt. examination in Shorthand in the Higher grade English & Tamil.</p>	CE/H.R.D.

(1)	(2)	(3)	(4)	(5)
9.	STENO-TYPIST	By Direct Recruitment	i) A first Class Bachelor's Degree ii) Typewriting English & Tamil (Senior Grade) iii) Short Hand English /Higher & Tamil (Lower) iv) Knowledge in Computer Operation.	CE/HRD
10.	TYPIST	By Direct Recruitment	i) First Class Bachelor's Degree. ii) Typewriting English & Tamil both Senior Grade. (ie. Higher Gr.) iii) Knowledge in Computer Operation	CE/H.R.D.
11.	RECORD CLERK	By Direct Recruitment	A First Class Bachelor's Degree	CE/H.R.D.
12.	OFFICE HELPER	By Direct Recruitment	i) Must have passed S.S.L.C./Matriculation equivalent. ii) Must be able to ride Bicycle	CE/H.R.D.

TECHNICAL BRANCH PROVINCIAL CADRE

SL. NO.	CATEGORY OF POSTS AND SCALE OF PAY	METHOD OF APPOINTMENT	QUALIFICATIONS	APPOINTING AUTHORITY
(1)	(2)	(3)	(4)	(5)
1.	MEMBER (GENERATION)	By Promotion on selection	i) A Bachelor's Degree or equivalent in any Engineering Discipline. ii) Service of 2 years as Chief Engineer iii) He should have a minimum service of one year at the time of promotion.	GOVERNMENT
2.	CHIEF ENGINEER GENERAL (ELECTRICAL) MECH. & CIVIL)	By Promotion on selection	i) A first Class Bachelor's Degree or equivalent in the relevant Engineering Discipline. ii) Experience of 4 years as Superintending Engineer in Generation area. iii) He should possess a minimum of 2 years of service at the time of promotion.	BOARD
3.	S.Es/ ELECL. MECHL. & CIVIL	By Promotion on selection	i) A first Class Bachelor's Degree or equivalent in the relevant Engineering Discipline. ii) Service of Six years as Executive Engineer in Generation area. iii) He should possess a minimum of 2 years of service at the time of promotion.	CHAIRMAN
4.	EXECUTIVE ENGINEER/ (ELECL.) MECHL. & CIVIL	By Promotion on selection	i) A First Class Bachelor's Degree or equivalent in the relevant Engineering Discipline concerned. ii) Service of 10 years as Asst. Executive Engineer.	CHAIRMAN

(1)	(2)	(3)	(4)	(5)
5. DEPUTY CHIEF CHEMIST		By Promotion from Senior Chemist	A first Class in B.Sc., (Chemistry) with minimum service of 2 years as Senior Chemist	CHAIRMAN
6. A.E.Es./ELECL. MECHL. & CIVIL		By Promotion of Graduate Engineer (A.E.) OR Junior Engineer(Diploma holder)in the ratio of 3 : 1	<p>i. A Bachelor Degree or equivalent qualification in the respective Engg. Discipline with average of 65% or more marks computed in the manner as shown in the Rules with 5 years experience in A.E..</p> <p>ii. A three year Diploma with I Class in the respective discipline with 6 years experience in Junior Engineer/I Grade.</p> <p>iii. Experience of 2 years in the relevant field a Government Dept. or any organisation of repute.</p>	C.E./H.R.D.
		5% of the post by Direct Recruitment		
7. SENIOR CHEMIST		By Promotion on selection	<p>i. A First Class Bachelor's Degree with Chemistry as major subject.</p> <p>ii. 15 years experience in any Generation area in any cadre</p>	C.E./H.R.D.
8.A.Es/Elecl./Mechl./ Civil.		By Direct Recruitment only	<p>i. A First Class Bachelor's Degree in the respective Discipline; candidates with I Class Post Graduates will be given preference.</p> <p>For A.E./Elecl. Recruitment a pass in Sections A and B of the A.M.I.E. (Ind) Examination with Electrical Engineering (General) and any two of the following subjects under Section B as optional or additional subjects with 60% marks:-</p> <p>(i) Electric Supply and Power Distribution</p> <p>(ii) Electric Machinery</p> <p>(iii) Electrical Installation</p> <p>(iv) Electrical Measurements.</p> <p>(v) Thermodynamics and Heat Engines (Steam and Internal Combustion)</p> <p>(vi) Hydro Electricity</p> <p>(vii) Hydraulics or Hydraulic Machinery</p> <p>(a) Should have had practical experience in erection maintenance or construction work for a period of not less than one year after, passing Section A and B of the A.M.I.E. (Ind) Examination.</p>	C.E./H.R.D.
		Note - 1:-		
		Note - 2:-	<p>For A.E./Mechanical Recruitment, a Pass in Section A and B of the A.M.I.E. (Ind) Examination with any three of the following subjects under Section B as optional or additional subjects with 60% marks.</p> <p>1. Theory and Design of Structures.</p> <p>2. Hydraulics and Hydraulic Machinery.</p> <p>3. Machine Design.</p> <p>4. Workshop Teschnology.</p> <p>5. Thermodynamics and Heat Engines (Steam and Internal Combustion).</p> <p>(a) Should have had practical experience in workshops and structural works for a period of not less than one year after passing Sections A and B of the A.M.I.E. (Ind) Examination.</p>	

(1)	(2)	(3)	(4)	(5)
9.	JE/I Gr. (El./Mech./ Civil)	Promotion of Diploma Holders and selection through Internal selection	i) A I Class pass in the 3 years Diploma in the relevant Discipline ii) Experience of 10 years as T.A.	C.E./H.R.D.
10.	JUNIOR CHEMIST	By Promotion on selection	i. A I Class pass in the B.Sc.,(Chem.) ii. Experience of 10 years in Generation area, as Tester (Chemical) Note:- They should work in shift or in General duty anywhere either in Thermal Station or sampling in any Port/Collaries as necessitated immediately on issue of orders.	C.E./H.R.D.
11.	JUNIOR ENGINEER/ II GRADE	By promotion from Technical Asst./Elecl.	1. A I Class Diploma of D.E.E. issued by the Tecnological Diploma Examination Board, Madras or equivalent qualification; and a. Practical experience in Maintenance or erection or construction works for a period of not less than two years in the Government Electricity Department/Tamil Nadu Electricity Board or three years elsewhere.	
12.	JUNIOR ENGINEER/ MECHL./ II GRADE	Appointment by Internal selection	1. A I Class Diploma of D.M.E. issued by the Technological Diploma Examination Board or equivalent qualification. and a. Practical experience in Mechanical workshop and structural works for a period of not less than two years in the Government Electricity Department and/or Tamil Nadu Electricity Board or three years elsewhere.	
13.	JUNIOR ENGINEER/ CIVIL/II Gr.	Internal selection	i) A I Class Diploma of D.C.E. awarded by the Technological Diploma Examination Board or by the State Board of Technical Education and Training, Madras or any qualification recognised as equivalent thereto by the Board. ii) A pass in Sections A and B of A.M.I.E. (Ind) Examination with Geology as an optional or additional subject, subject to the following conditions:- a) (i) Should furnish evidence of having undergone practical training 'Surveying' for not less than one year.	
14.	MEDICAL OFFICER	Direct Recruitment	1. Must not have completed or will not complete 35 (thirty five) years of age on the first day of July of the year in which the selection for appointment is made;	

Explanation:

For this purpose, the period of service rendered by a person in the Army Medical Corps as short Service Commissioned Officer shall be allowed to be deducted from his age subject to a maximum period of 5 years.

2. Must be a registered Medical Practitioner within the meaning of the Tamil Nadu Medical Registration Act 1914 (T.N.A.IV OF 1914); and

(1)	(2)	(3)	(4)	(5)
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3. Must have obtained the degree of M.B.B.S. of any University or Institution recognised by the University Grants Commission for the purpose of its grant; and
4. Must have served as House Surgeon (or) House Physician (or) Clinical Assistant (or) Assistant Surgeon (or) a Medical Officer in a recognised hospital in or out of India for a period of not less than twelve months, if he has not undergone, "Compulsory House Surgeoncy" as part of the M.B.B.S. Degree course.

Explanation.

1. In the case of those who have served as House Surgeons or House physicians, "Recognised Hospital" means, an institution in Tamil Nadu to which House Surgeons are posted by the Director of Medical Services or a reaching Hospital in or out of India or any other Institution in India, the House Surgeoncy in which is recognised by the University concerned.

In the case of those who have served as Clinical Assistant or Assistant Surgeon or Medical Officer "Recognised Hospital" means any hospital in or out of India, with a bed strength of 25 or more, where enough clinical materials for training are available.

2. Preference will be given to those who have put in a minimum service of one year as Medical Officer in Primary Health Centre in the State of Tamil Nadu.

15. PHARMACIST	Recruitment through Employment Exchange or by advertisement or from among the existing qualified employees of Tamil Nadu Electricity Board.	(i)	A successful course in such training prescribed by State Government i.e. A Diploma in Pharmacy.
16. STAFF NURSE	Recruitment through Employment Exchange or by advertisement or from among the existing qualified employees of Tamil Nadu Electricity Board.	(i)	Three years course in General Nursing conducting by the State Government and six months Midwifery training in recognised Government Medical Institution.
17. LAB TECHNICIAN II GRADE	Recruitment through Employment Exchange or by advertisement or from among the existing qualified employees of Tamil Nadu Electricity Board.	(i)	Certificate of having successfully completed shortened training course for a Laboratory Technician.

ACCOUNTS BRANCH

Sl. No.	Category of posts and scales of pay	Method of Appointment	Qualifications	Appointing Authority
(1)	(2)	(3)	(4)	(5)
1.	CHIEF FINANCE MANAGER CFC Cadre	By promotion on Selection	i) A Bachelor's Degree, ii) Service 3 years as F.C. iii) An Association Member of the Institute of Cost and Works Accountant of India/Chartered Accountant or M.B.A. (Finance) iv) Minimum of 2 years of balance service required.	BOARD
2.	FINANCIAL CONTROLLER	By promotion on selection	i) A Bachelor's Degree ii) Service 5 years as D.F.C. iii) An Association Member of the Institute of Cost and Works Accountants of India/Chartered Accountant or M.B.A.(Finance) iv) Minimum of 2 years of balance service required.	CHAIRMAN
3.	DY.FINANCIAL CONTROLLER	By Promotion on selection	i) A first Class Bachelor's Degree ii) Service of 10 years of Accounts Officers.	CHAIRMAN
4.	ACCOUNTS OFFICER	By Promotion on Merit 66.66%	i) A first Class Bachelor's Degree ii) Service of 5 years as Asst. Accounts Officer.	CE/HRD
5.	ASSISTANT ACCOUNTS OFFICER	By Promotion on selection 66.66%	i) A first Class Bachelor's Degree in Commerce. ii) Service of 10 years as Accounts Supervisor.	CE/HRD
		By Direct Recruitment 33.34%	i) A first Class Graduate holding membership of the Institute of Cost and Works Accounts of India/Chartered Accountant of M.B.A.(Finance).	
6.	ACCOUNTS SUPERVISOR	By Promotion on selection	i) A first Class Bachelor's Degree ii) Service of 10 years as Assistant(Accounts)	CE/HRD
7.	ASSISTANT	By Direct Recruitment	i) A first Class Bachelor's Degree in Commerce.	CE/HRD
8.	JR.ASST. CUM-TYPIST	By Direct Recruitment	i) A Bachelor's Degree ii) Typewriting English and Tamil both Senior Grade (i.e. Higher Grade). iii) Knowledge in Computer Operation.	CE/HRD

(1)	(2)	(3)	(4)	(5)
9.	RECORD CLERK	By Direct Recruitment	i) A Bachelor's Degree	CE/HRD
10.	OFFICE HELPER	By Direct Recruitment	i) Must have passed SSLC/ Matriculation. ii) Must be able to ride Bicycle.	CE/HRD

DRAUGHTSMAN CATEGORY

1.	HEAD DRAUGHTSMAN	Promotion from Senior D'man	i) A Diploma of LEE of the Govt. School of Technology or of the Technological Diploma Examination Board, Madras. ii) The Certificate granted by the College of Engineering Guindy, on completion of the Course prescribed for the Lower Sub-ordinate Class or iii) A pass in the Examination prescribed for 1. The Engineering Sub-ordinate Class 2. The Overseas Class; I 3. The Sub-Overseas Class; or 4. The Surveyor Class; or 5. The D'man Class in the College of Engineering, Guindy, or iv) a) Pass in the Spl. Examination for Group Certificate in Building Drawing which has been prescribed for D'man in the Govt. Techl. Examination, Madras; and b) Practical experience as D'man in Drawing and Design for a period of not less than three years, preferably in the Govt. Dept. and/or TNEB.	
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(or)

(1)	(2)	(3)	(4)	(5)
				Craftsmanship Certificate in the Trade of D'man (Civil) and D'man(Mechl.) issued by the Ministry of Labour and Employment, Govt. of India and <u>Practical Experience as D'man in Drawing and Design for a period of not less than three years preferably in Govt./TNEB.</u>
2. SENIOR D'MAN		Promotion of D'man or by Direct Recruitment or by promotion from any other post.	-do-	
3. DRAUGHTS-MAN		Promotion of Assistant D'man	a)	<ul style="list-style-type: none"> <li data-bbox="805 636 1211 949">i) Diploma of the L.E.E. of the Govt. School of Technology or of the Technological Diploma Examination Board, Madras or a pass in the L.E.E. Examination conducted by the Technological Diploma Examination Board, Madras, if persons with L.E.E. Diploma are not available; <li data-bbox="992 954 1032 976">(or) <li data-bbox="805 987 1195 1140">ii) The Certificate granted by the College of Engineering, Guindy on the completion of the course prescribed for the Lower Subordinate Class; <li data-bbox="984 1144 1024 1167">(or) <li data-bbox="805 1178 1146 1234">iii) A pass in the examination prescribed for, <ul style="list-style-type: none"> <li data-bbox="805 1256 1195 1279">1) The Engg. Subordinate Class. <li data-bbox="805 1290 1114 1312">2) The Oversear Class, or <li data-bbox="805 1323 1179 1346">3) The Sub Surveyor Class, or <li data-bbox="805 1357 1114 1379">4) The Surveyor Class, or <li data-bbox="805 1391 1114 1469">5) The D'man Class in the College of Engineering Guindy, <li data-bbox="805 1491 1260 1547">iv) The or New Oversear Diploma of the college of Engineering, Guindy. <li data-bbox="976 1570 1016 1592">(or) <li data-bbox="805 1615 1130 1930">v) A pass in the Spl.Examination for Group Certificate in Building Drawing which has been prescribed for D'man in the Govt. Tech. Examinations, Madras and in the case of a candidate for appointment as D'man for

(1)	(2)	(3)	(4)	(5)																
			<p>electrical work, practical experience in Drawing and Design in Electrical works for a period of not less than six months in the Govt. Electricity Dept. and/or the Board or one year elsewhere.</p> <p>Provided that a candidate possessing the L.E.E. Diploma shall not be required to possess such practical experience;</p> <p>(or)</p> <p>(vi) Craftsmanship Certificate in the trades of D'man (Civil) and D'man (Elect.) issued by the Ministry of Labour and Employment Govt. of India.</p> <p>(or)</p> <p>(vii) A pass in the special Examination for the "Group Certificate in Civil Engg". in the Govt. Techl. Examinations Comprising the subjects mentioned below:</p>																	
			<table border="1"> <thead> <tr> <th data-bbox="740 1115 829 1146">Subject</th> <th data-bbox="1105 1115 1182 1146">Grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="740 1178 997 1240">1. Building materials and constructions</td> <td data-bbox="1105 1178 1182 1209">Lower</td> </tr> <tr> <td data-bbox="740 1258 997 1321">2. Earth Work - and road making</td> <td data-bbox="1105 1258 1182 1290">Lower</td> </tr> <tr> <td data-bbox="740 1339 997 1402">3. Building drawing and estimating</td> <td data-bbox="1105 1339 1182 1370">Higher</td> </tr> <tr> <td data-bbox="740 1420 997 1482">4. Hydraulic and Irrigation works</td> <td data-bbox="1105 1420 1182 1451">Higher</td> </tr> <tr> <td data-bbox="740 1500 997 1532">5. Applied Mechanics</td> <td data-bbox="1105 1500 1182 1532">Lower</td> </tr> <tr> <td data-bbox="740 1550 997 1581">6. Applied Mechanics</td> <td data-bbox="1105 1550 1182 1581">Higher</td> </tr> <tr> <td data-bbox="740 1599 997 1630">7. Geometrical Drawing</td> <td data-bbox="1105 1599 1182 1630">Lower</td> </tr> </tbody> </table>	Subject	Grade	1. Building materials and constructions	Lower	2. Earth Work - and road making	Lower	3. Building drawing and estimating	Higher	4. Hydraulic and Irrigation works	Higher	5. Applied Mechanics	Lower	6. Applied Mechanics	Higher	7. Geometrical Drawing	Lower	
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6. Applied Mechanics	Higher																			
7. Geometrical Drawing	Lower																			
			<p>The qualifications specified above shall not be necessary for appointment as D'man of Assistant D'man with not less than 10 years experience.</p>																	

(1)	(2)	(3)	(4)	(5)
4.	ASST.D'MAN (3370-100-5770)	By Direct Recruitment OR Appointment by Internal Selection from RWE. For the purpose of appointment by internal selection, the selection shall be made in the order of length of service in a category having common scales of pay, preference being given to those in the higher scale group.	<p>(a) A pass in the Govt. Techn. Examination in the Lower Grade in Geometrical Drawing, Building, Drawing and Estimating and free hand outline and Model Drawing or a completed S.S.L.C. issued under the authority of the Govt. of Tamil Nadu with not less than the percentage of marks specified against the following subjects under Engineering included as a special subject in the bifurcated courses in Secondary Schools.</p> <p>i) Science and Drawing 30%</p> <p>ii) Applied Science and practical 30% A pass in Building and Structural D'manship Certificate course of the Central Polytechnic, Madras.</p> <p>(or) Craftsmanship Certificate in the trades of D'man(Civil) and D'man(Mechl.) issued by the Ministry of Labour and Employment, Govt. of India.</p>	

STORES STAFF

1) Stores Controller	Recruitment by promotion from Stores Officer.	i) A first Class Bachelor's Degree. ii) 25 years experience	CHAIRMAN
2) Stores Officer	Promotion from Stores Supervisor/ Stock Verifier.	1. A First Class Bachelor's Degree. 2. Evidence of proficiency in Stores Accounting and Charge of Stores in a large electric supply undertaking for a period of not less than 15 years.	CE/HRD

(1)	(2)	(3)	(4)	(5)
3)	Stores Supervisor/ Stock Verifier	Direct Recruitment or by promotion from Stores Custodian	1. A First Class Bachelor's Degree 2. Evidence of proficiency in Stores Accounting and Charge of Stores in a large electric supply undertaking for a period of not less than 3 years and in the case of appointment if Stores Supervisor, a Security Deposit of Rs.1,000/- (Rupees One Thousand only).	CE/HRD
4)	Stores Custodian	Direct Recruitment or appointment by Internal Selection from any other posts.	1. A First Class Bachelor's Degree Additional post graduate Diploma in Materials Management/handling/ Stores will be preferred.	CE/HRD

REGULAR WORK ESTABLISHMENT (R.W.E.)

1.	SPL.GRADE FOREMAN	By Promotion	DME,DEE or equivalent qualification as approved by the CE(Per) with 8 years practical experience as FM or Erector on a Large Engg. Organisation. OR Pass in III Form with 14 years practical experience in a responsible position as FM, Erector, Civil Maistry or Surveyor or in the type of work concerned.	
2.	TECHNICAL ASSISTANT (ELECTRICAL)	Appointment by Direct Recruitment or by Internal Selection from RWE cadre.	i) First Class Diploma in Elecl. Engineering. ii) Diploma in Elecl. & Electronics Engineering. Diploma in Electronics & Communication Engineering. Diploma in Instrumentation Technology or Equivalent.	SE/ concerned

(1)	(2)	(3)	(4)	(5)
3. TECHNICAL ASSISTANT (MECHL.)	Appointment by Direct Recruitment or by Internal Selection from R.W.E. Cadre		First Class Diploma in Mechl. Engg. or equivalent.	SE/ concerned
4. TESTER (CHEMICAL)	By Direct Recruitment or Internal Selection.	i)	B.Sc., First Class in Chemistry or equivalent qualification with one year practical experience in the type of work concerned.	SE/ concerned
Note: They should work in Shift or general duty, anywhere either in Thermal Station or sampling in any Post/ Collieries as necessitated immediately on issue of orders.				
5. FOREMAN I GRADE	By Promotion		L.M.E. or D.E.E. as the case may be, or equivalent qualification as approved by the Chief Engineer/Personnel with 5 years practical experience in a responsible position in the type of work concerned. or Pass in III Form with 12 years practical experience in a responsible position in the type of work concerned.	SE/ concerned
6. FITTER I GR. (Equivalent to L.I.)	By Promotion		Pass in SSLC/X Std Pass Certificate of Competency issued by the Board of Examination with two years practical experience in the type of work concerned. or Pass in SSLC/X Std. with 4 years practical experience in the type of work concerned. or Craftsmanship certificate in the trade of Fitter issued by the Ministry of Labour and Employment, Govt. of India with practical experience for ONE year in the type of work concerned for Fitter, Grade in Mettur Workshops and work charged establishment. The practical experience of one year is not necessary in the case of employment in Operation Branch; or	S.E. concerned

(1)	(2)	(3)	(4)	(5)
			Craftsmanship Certificate in the trade of Fitter issued by the Ministry of Labour and Employment, Govt. of India for Fitter II Gr. in Mettur Workshops and work charged Establishment; or The Industrial School Certificate of 3 to 5 years duration awarded by the Industries and Commerce Department.	
7)	INSTRUMENT MECHANIC I GR. (Equivalent to L.I.)	By Promotion	<p>D.M.E. or D.E.E. as the case may be or equivalent qualification as approved by the Chief Engineer/Personnel with one year practical experience in the type of work concerned;</p> <p>or</p> <p>Pass in SSLC or X Std., with 6 years practical experience in the type of work concerned. Group certificate in Electrical Engineering with 3 years' practical experience in the type of work concerned.</p> <p>or</p> <p>Craftsmanship Certificate in the trade of Mechanic (Instrument) issued by the Ministry of Labour and Employment, Govt. of India with practical experience for ONE YEAR in the type of work concerned.</p> <p>or</p> <p>The Industrial School Certificate of 3 to 5 years duration awarded by the Industries and Commerce Department.</p>	SE/ concerned
8)	DRIVER (Tractor, Tractor or Heavy Vehicles) Grade-I (Equivalent to L.I.)	By Promotion	A pass in X Std, possessing of driving licence without police of magisterial endorsement and experience in lorry driving for 8 years of which at least 3 years must have been in driving heavy vehicles and/of tractor trailers.	S.E's concerned
9)	ELECTRICIAN (Equivalent to L.I.)	By Promotion	<p>D.E.E. or equivalent qualification as approved by the Chief Engineer(Personnel);</p> <p>or</p>	S.E's concerned

(1)	(2)	(3)	(4)	(5)
			<p>Certificate in Elecl. wiring issued by the Polytechnics or equivalent qualification as approved by the Chief Engineer(Personnel) with 2 years practical experience in the type of work concerned;</p> <p>or</p> <p>Completed S.S.L.C. with practical experience for 4 years in the type of work concerned.</p> <p>or</p> <p>Group certificate in Elecl. Engg. with one year practical experience in the type of work concerned.</p> <p>(OR)</p> <p>Craftsmanship certificate in the trade of Electrician issued by the Ministry of Labour and Employment, Govt. of India;</p> <p>OR</p> <p>The Industrial School Certificate of 3 to 5 years duration awarded by the Industries and Commerce Department.</p>	S.E's concerned
10)	MAISTRY II GR.	By Promotion	<p>Pass in SSLC/X Std with 3 years practical experience in the type of work concerned.</p> <p>The practical experience prescribed may be reduced by two years in the case of candidates possessing any technical qualifications acceptable to the Chief Engineer(Personnel)</p>	
11)	CARPENTER II GR.	By Promotion	<p>Pass in SSLC/ X Std with ITI with practical experience for three years in the type of work concerned.</p>	
12)	STONE CUTTER	By Promotion	-do-	
13)	MASON	By Promotion	-do-	
14)	WARDEN	By Promotion	<p>Pass in IV Standard and ability to cook with one year experience in the type of work concerned.</p>	
15)	BLUE PRINTER I GR.	By Promotion	<p>Pass in SSLC/ X Std with one year practical experience in the type of work concerned.</p>	

(1)	(2)	(3)	(4)	(5)
16)	BLUE PRINTER II GR.		Pass in SSLC/ X Std with ITI with one year practical experience in the type of work concerned	
17)	BLACKSMITH III GR.		Pass in SSLC/ X Std with ITI must be able to carry out smithy and forging work to instructions given prior experience in smithy works for 3 years.	
18)	CRANE DRIVER	By Promotion	D.E.E. or equivalent qualification as approved by the Chief Engineer (Personnel). OR Pass in IV std. with practical experience in Electrical Operation and Maintenance for a period of not less than 3 years in the type of work concerned OR Group certificate in Electrical Engineering with one year practical experience in the type of work concerned.	S.E's concerned
19)	HELPER For any work such as Watchman, Sweeper, Gardener etc. as entrusted by the immediate superiors	By Recruitment	Must possess National Trade Certificate/National Apprenticeship Certificate awarded by the National Council for Training and Vocational Trade in any one of the following Trades:	
			<ol style="list-style-type: none"> 1. Fitter 2. Turner 3. Machinist 4. Welder 5. Wireman 6. Building Construction 7. Blacksmith 8. Carpenter 9. Plumber 10. Electrician 11. Instrument Mechanic 12. D'man (Civil) 13. Surveyor 	
			Provided that the Chairman shall have the power to order the selection from any of the Trades referred to above and to such number as may be decided by him.	

ANNEXURE - III

LISTS OF POSTS

Sl.No. (1)	Category (2)
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Class - I

1. Member Generation
2. Chief Engineer/H.R.D.
3. Director/Chief Finance Manager(CFC Cadre)
4. Chief Engineer/Mech./Civil/Elecl.
5. Superintending Engineer/Elecl./Civil/Mech.
6. Financial Controller
7. Senior Personnel Officer
8. Executive Engineer/Elecl./Mech./Civil
9. Deputy Financial Controller
10. Stores Controller
11. Deputy Chief Chemist

Class - II

1. Accounts Officer
2. Administrative Officer
3. Medical Officer
4. Senior Chemist
5. Asst.Exe.Engineer/Elecl./Mech./Civil
6. Asst. Administrative Officer
7. Assistant Accounts Officer
8. Stores Officer
9. Labour Welfare Officer
10. Assistant Engineer/Elecl./Mech./Civil
11. Junior Engineer Grade I/Elecl./Mechl./Civil

Class III

1. Junior Engineer//Elecl./Mech./Civil Grade II
2. Superintendent
3. Accounts Supervisor
4. Stores Supervisor/Stock Verifier
5. Assistant
6. Assistant Cum Steno
7. Stores Custodian
8. Staff Nurse
9. Head Draughtsman
10. Senior Draughtsman
11. Draughtsman
12. Asst.Draughtsman
13. Steno Typist
14. Pharmacist
15. Junior Assistant Cum Typist
16. Lab-Technician
17. Junior Chemist

(1) (2)

Class - IV

1. Record Clerk
2. Office Helper
3. Male Nursing Assistant
4. Nursing Orderly

R.W.E. Category**Class III Service**

1. Spl. Grade Foreman
2. Foreman Grade I
3. Technical Assistant/Electrical
4. Technical Assistant/Mech.
5. Tester Chemical
6. Instrument Mech. I Grade
7. Driver (Tractor Trailors of HV) Grade I
8. Fitter Gr. I
9. Electrician Grade I
10. Crane Driver
11. Maistry Grade II
12. Carpenter Grade II
13. Mason
14. Warden

Class IV

1. Stone Cutter
2. Blue Printer Grade II
3. Helper
4. Blacksmith Grade II

ANNEXURE - IV (OFFICERS)

Sl. No.	Category	Scale of Pay
(1)	(2)	(3)
1.	Chief Engineer } Chief Finance Manager } (CFC) Cadre }	
2.	Financial Controller } Senior Personnel Officer } Superintending Engineer }	15100-425-19350
3.	Deputy Financial Controller } Executive Engineer } Stores Controller } Deputy Chief Chemist }	11000-350-18350
4.	Accounts Officer } Administrative Officer }	9500-300-15800

(1)	(2)	(3)
5.	Senior Chemist } Assistant Executive Engineer } Medical Officer }	9275-300-15575
6.	Assistant Administrative Officer } Assistant Accounts Officer } Stores Officer } Labour Welfare Officer }	8100-275-13875
7.	Assistant Engineer } Junior Engineer I Grade }	7225-225-12175

ANNEXURE - IV (WORKMEN)

1.	Special Grade Foreman }	7225-225-12175
2.	Superintendent } Junior Chemist } Head Draughtsman }	5850-200-9850
3.	Accounts Supervisor } Stores Supervisor } Stock Verifier } Foreman I Grade } Senior Draughtsman } Junior Engineer II Grade }	5600-175-9100
4.	Assistant } Assistant-Cum-Steno } Draughtsman } Stores Custodian } Technical Assistant/Elect./Mech. } Tester Chemical } Instrument Mechanic Grade I } Driver(Tractor Trailor of H.V. Grade I } Staff Nurse } Fitter Grade I } Electrician Grade I } Crane Driver }	4200-130-7060
5.	Steno-Typist } Junior Assistant Cum.Typist } Record Clerk } Maistry Grade II } Carpenter Grade II } Stone Cutter } Mason } Warden } Assistant Draughtsman } Pharmacist } Lab-Technician }	3370-100-5770
6.	Officer Helper } Blue Printer Grade II } Blacksmith Grade II } Helper } Male Nursing Assistant } Nursing Orderly }	3050-75-3950-80-4590

கடித எண்.95675/அ7/அ/2/2000-1, (வாரிய செயலகக் கிளை), நாள் 11.12.2000.

பொருள்: கடன் மற்றும் முன்பணம் - பணியாளரின் வைப்பு நிதித் தொகையிலிருந்து வைப்பு நிதி கடன் வழங்கிட - வீட்டிற்கு எடுத்துச் செல்லும் சம்பள விகிதம் - தெளிவுரை கோருதல் - சம்பந்தமாக.

பார்வை: 1) வாரிய குறிப்பாணை எண்.62793/அ7/அ/2/95-8, நாள் 8.12.1999.

2) தங்களின் கடித எண்.732/நிபி.3/உ4/கோ.வை.நி./2000, நாள் 9.11.2000.

பார்வை (1)-ல் சுட்டிக்காட்டப்பட்டுள்ள வாரியக் குறிப்பாணை, பத்தி 1-ல் கீழ்க்காணும் இனங்களுக்கு வாரிய முன்பணக்கடன் வழங்குகையில் வாரிய அலுவலர்களின் ஊதியத்தில் கையில் கொண்டு செல்ல வேண்டிய மாத ஊதியம் உறுதி செய்வது பற்றிய நிபந்தனையைக் கடைபிடிக்கத் தேவையில்லை எனத் தெரிவிக்கப்பட்டுள்ளது:-

- 1) வீடு கட்ட முன்பணம்
- 2) கல்விக்கடன்
- 3) பண்டிகை முன்பணம்
- 4) தொழில் நுட்பக் கல்விக்கடன்

2. மேற்காணும் நான்கு முன்பணக் கடன் தவிர மற்ற முன்பணம்/கடன் வழங்கும்போது, கடன் பெறும் அலுவலர் கூட்டுறவு சங்க உறுப்பினராக இருந்தால் அவரது மாதாந்திர ஊதியத்தில் பிடித்தம் 75 விழுக்காட்டிற்கும் (75%) கூட்டுறவு சங்க உறுப்பினரல்லாதவருக்கு பிடித்தம் 50 விழுக்காட்டிற்கும் (50%) மிகைப்படக்கூடாது எனவும் தெளிவுறுத்தப்பட்டுள்ளது. மேற்படி தெளிவுரை வருங்கால வைப்பு நிதியில் இருந்து தற்காலிக முன்பணம் கோரும் அலுவலர்களுக்கும் பொருந்தும் என்பதனை தெரிவித்துக் கொள்கிறேன்.

3. இக்கடிதம் பெற்றுக் கொண்டமைக்கான ஒப்புக்கையை இவ்வலுவலகத்திற்கு அனுப்பி வைக்குமாறு கேட்டுக்கொள்கிறேன்.

கோ. ஞானசெல்வம்,
செயலாளர்.

Date : 11.12.2000.

CHAIRMAN'S APPRECIATION

Chairman, Tamil Nadu Electricity Board records his appreciation of the excellent work done in reerection of 3 Nos. 110 KV towers which were collapsed on 6.12.2000 due to cyclone near the village Periapet which helped restoration of 110 KV supply to Chidambaram and B.Mutlur 110 KV SS in a record time of 40 Hours. The Officers viz., Thiru A.S. Kandasamy, Chief Engineer/Transmission, Thiru R. Srinivasan, Superintending Engineer/GCC/Trichy, Thiru B. Thangavel, Executive Engineer/TLC/Trichy, Thiru A.Sekar, Executive Engineer/TLC, Villupuram and other field Officers and employees involved in this work had done their part in a commendable way unmindful of the hardships in arranging transporting of men and materials during night hours also. The above officers and staff deserve to be congratulated and commended for their best efforts.

R. Poornalingam,
Chairman.

Tamil Nadu Electricity Board - "Celebration of Board's Day" - Medal Schemes for employees of Tamil Nadu Electricity Board - Selection of employees for awarding "Tamil Nadu Electricity Board Medal" for Distinguished Service for the year 1999 - Orders - Issued.

(Per.) B.P. (F.B.) No.99

(Secretariat Branch)

Dated 12th December, 2000.
27th Karthigai, Vikrama,
Thiruvalluvar Aandu, 2031.

Read :

1. (Per.) B.P. (F.B.) No.57, (S.B.), dated 13.10.92.
2. Board's Memo.No.34020/O&M Cell (1)-4/92-2, dated 24.10.92.
3. Board's Memo.No.34020/O&M-I (4)/92-3, dated 13.11.92.
4. (Per.) Memo. No. 36768/O&M-I (4)/93-1, dated 22.6.93.
5. Board's Memo. (P) No.70094/O&M/Cell-I (4)/93-1, dated 19.11.93.
6. Board's Memo. (P) No.87843/P3/96-79, dated 25.8.98.

Proceedings :-

The Tamil Nadu Electricity Board directs that the following employees of the Board be awarded the "Tamil Nadu Electricity Board Medal" for the year 1999 for their Distinguished Service as per the scheme approved in the B.P. cited:-

- (1) Thiru P.R. Baskaran, Chief Engineer (Retired)
North Chennai Thermal Power Station.
- (2) Thiru A.S. Kandasamy,
(Then Superintending Engineer/Gobi Electricity Distribution Circle)
Now Chief Engineer/Transmission/Chennai - 2.
- (3) Thiru S. Thangarathinam, Chief Financial Controller/General (Retired)
Board Office Accounts Branch.
- (4) Thiru N. Chidambarakuttalam, (Then Superintending Engineer/Electrical),
Now Chief Engineer/Mettur Thermal Power Station/Mettur Dam.
- (5) Thiru S. Swaminathan, Deputy Chief Internal Audit Officer,
Board Office Audit Branch,
Chennai - 2.

(By Order of the Board)

G. Gnanaselvam,
Secretary.

* * *

Establishment - Creation of one flying squad to detect the theft of energy - Orders - Issued.

(Permanent) B.P. (Ch.) No.310

(Secretariat Branch)

Dated the 12th December, 2000.
27th Karthigai, Vikrama,
Thiruvalluvar Aandu, 2031.

Read :

Permanent B.P. (Ch.) No.277, (S.B.), dt.9.11.2000.

Proceedings :-

Consequent on the orders issued in the B.P. cited, abolishing certain posts in Anti Power Theft Squad Wing, it has been decided during the Officers meeting held on 11.9.2000 to create one flying squad

and to place it under the direct control of Chief Internal Audit Officer/Board Office Audit Branch.

2. Accordingly, the Tamil Nadu Electricity Board hereby directs that the following posts be created in the Office of Chief Internal Audit Officer/Board Office Audit Branch for a period of six months from the date of utilisation of the posts to function as a Flying Squad for detection of Power Theft and other such cases:-

1.	Assistant Executive Engineer/Electrical	:	1	(one)
2.	Assistant Engineer/Electrical	:	1	(one)
3.	Inspector of Police	:	1	(one)
4.	Tester I Grade	:	1	(one)
5.	Helper	:	1	(one)

	Total	:	5	(Five)

The duties and responsibilities of the Flying Squad are given in the Annexure to this Board's Proceedings. The Chief Internal Audit Officer/Board Office Audit Branch, shall submit files on this subject direct to the Chairman.

3. The incumbents of the posts sanctioned in para 2 above will be eligible to draw the Usual Pay, Dearness Allowance, City Compensatory Allowance and other Allowances at the rates admissible under the orders in force wherever applicable.

4. The expenditure is debitable to Tamil Nadu Electricity Board Funds - Revenue Expenses - 75 - Employees costs - 75-1 - Salaries - 75-110 - Salaries Provincial - 75-120 - Salaries - Regular Work Establishment.

5. Receipt of this Order shall be acknowledged.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

Encl.: Annexure

ANNEXURE
DUTIES OF FLYING SQUAD

I. The main duties/functions of Flying Squad under the direct control of Chief Internal Audit Officer/Board Office Audit Branch are as follows :-

- i) Collection of systematic information on Power Thefts and initiate followup action.
- ii) Followup action on complaints of Power Thefts received in the flying squad.
- iii) Surprise raids in suspected and endemic areas, detecting causes of theft of energy.
- iv) Liaison with local Police Officers for early completion of investigation cases.
- v) Undertaking of study of modes of Power Thefts and issue suitable guidelines/ instructions for solving the problem.

II. The job chart for the Officers and staff of Flying Squad under the control of Chief Internal Audit Officer/Board Office Audit Branch is given below :

JOB CHART

HELPER:

1. Carrying the testing kit, tong tester, sealing Plier, torch light and other equipments.
2. Carrying the test records, inspection registers, reference files.
3. Cleaning the meter and metering box.
4. Cleaning the name plate for taking name plate details.
5. Guarding the evidences at site.
6. Cutting the seals and replacing them. Assisting the Police in seizure and transport of seized MOs.
7. Assisting the driver in vehicle maintenance.

8. Cleaning the Office.
9. Filing and Stitching the records.
10. Distribution of tapals.

TESTER I GRADE AND ASSISTANT ENGINEER :

1. Testing the meter.
2. Conducting load Check.
3. Recording the details in the standard form.
4. Preparation and serving of notice to the consumer.
5. Preparation of observation of Magazar and seize Magazar.
6. Verification of records like meter readings, Bills, Test Reports, etc.
7. Verification of genuineness of the seals and assisting the MRT.
8. Drafting of Complaint to Police.
9. Preparation of theft reports and maintenance of reports.
10. Office work.

ASSISTANT EXECUTIVE ENGINEER :

1. Leader of the team.
2. Overall incharge of the entire operation at site: guiding the staff and tackling the situation tactfully; contacting local Officers, Police, etc.
3. Drafting of Police Complaint and magazar.
4. Arranging transport for materials seized.
5. Preparation of inspection reports, theft reports and progress reports.
6. Programming of routine inspections, special raids and night raids.
7. Preparation of bills for staff.
8. Vehicle maintenance.
9. Attending Courts for deposition.
10. Attending enquiries by the assessing and appellate authorities.
11. Contacting the Government Pleader and Assistant Public Prosecutor for Prosecution witnesses : Followup of Court cases (Civil and Criminal).
12. Follow-up of realisation of penal levies.
13. Attending to all correspondences relating to theft of energy and violation cases.

/ True Copy /

Tamil Nadu Electricity Board - "Celebration of Board's Day" - Medal Schemes for employees of Tamil Nadu Electricity Board - Selection of employees for awarding "Chairman's Power Medal" for Meritorious Service for the year 1998 - Orders - Issued.

(Permanent) B.P. (Ch.) No.308

(Secretariat Branch)

Dated the 12th December, 2000.
27th Karthigai, Vikrama,
Thiruvalluvar Aandu, 2031.

Read :

1. (Per.) B.P. (F.B.) No.57, (S.B.), dated 13.10.92.
2. Board's Memo.No.34020/O&M Cell (1)-4/92-2, dated 24.10.92.
3. Board's Memo.No.34020/O&M-I (4)/92-3, dated 13.11.92.
4. (Per.) Memo.No. 36768/O&M-I (4)/93-1, dated 22.6.93.
5. Board's Memo. (P) No.70094/O&M/Cell-I (4)/93-1, dated 19.11.93.
6. Board's Memo. (P) No.87843/P3/96-79, dated 25.8.98.

Proceedings :-

The Tamil Nadu Electricity Board directs that the following employees of the Board be awarded the "Tamil Nadu Electricity Board Medal" for the year 1998 for their Meritorious Service as per the scheme approved in the B.P. cited:-

- I. **DISTRIBUTION :-**
1. Thiru S. Gurusami, Executive Engineer/O&M/Bhavani
Gobi Electricity Distribution Circle, Gobichettipalayam.
 2. Thiru R. Panneerselvam, Executive Engineer/Operation/Sembatty 230 KV SS,
Madurai Operation Circle, Madurai.
- II. **GENERATION :**
1. Thiru N. Ramasami, Assistant Executive Engineer/Mechanical,
Operation and Efficiency,
Mettur Thermal Power Station/Mettur Dam.
 2. Thiru S. Emmanuel, Junior Engineer I Grade/Mechanical,
Tuticorin Thermal Power Station/Tuticorin.
- III. **PROJECTS :**
- Thiru M. Deivendran, Junior Engineer I Grade/Civil,
Civil Construction Division,
Tuticorin Thermal Power Project/Tuticorin.
- IV. **TRANSMISSION :**
- Thiru R. Devaraj, Assistant Executive Engineer/Sub-Station Erection-I,
Office of the Superintending Engineer/General Construction Circle,
Coimbatore.
- V. **HEADQUARTERS :**
1. Thiru K. Ramasubbu, (then Under Secretary/Vigilance),
Now Under Secretary/Regulations,
Board Office Secretariat Branch,
Chennai - 600 002.
 2. Thiru K. Viswanathan, Selection Grade Auditor,
Board Office Audit Branch.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

Tamil Nadu Electricity Board - "Celebration of Board's Day" - Medal Schemes for employees of Tamil Nadu Electricity Board - Selection of employees for awarding "Chairman's Power Medal" for Meritorious Service for the year 1999 - Orders^d - Issued.

(Permanent) B.P. (Ch.) No.309

(Secretariat Branch)

Dated the 12th December, 2000.
27th Karthigai, Vikrama,
Thiruvalluvar Aandu, 2031.

Read :

1. (Per.) B.P. (F.B.) No.57, (S.B.), dated 13.10.92.
2. Board's Memo.No.34020/O&M Cell (1)-4/92-2, dated 24.10.92.
3. Board's Memo.No.34020/O&M-I (4)/92-3, dated 13.11.92.
4. (Per.) Memo.No. 36768/O&M-I (4)/93-1, dated 22.6.93.
5. Board's Memo. (P) No.70094/O&M/Cell-I (4)/93-1, dated 19.11.93.
6. Board's Memo. (P) No.87843/P3/96-79, dated 25.8.98.

Proceedings :-

The Chairman, Tamil Nadu Electricity Board approves the names of the following employees of the Board for awarding of the "Chairman's Power Medal" for the year 1999 for their Meritorious Service as per the scheme approved in the B.P. cited:-

I. DISTRIBUTION :-

1. Thiru K.P. Shanmugam,
Assistant Executive Engineer/Special Maintenance,
Office of the Superintending Engineer/Dharmapuri Electricity Distribution Circle.
2. Thiru A.G. Jesudoss,
Executive Engineer/Operation/Thondiarpattinam,
230 KV SS Chennai - 600 081,
Office of the Superintending Engineer/Chennai Electricity Distribution Circle/North.

II. GENERATION :

1. Thiru N. Palaniappan, Superintending Engineer/Mechanical-II,
Mettur Thermal Power Station, Mettur Dam.
2. Thiru P. Natarajan, Foreman I Grade, Sholayar Power House-I,
Office of the Superintending Engineer/Generation/Kadamparai.

III. PROJECTS :

1. Thiru M. Radhakrishnan, Executive Engineer/Mechanical/Construction,
Office of the Superintending Engineer/Mechanical,
Tuticorin Thermal Power Project/Tuticorin.
2. Thiru K. Aiyasamy, Accounts Officer/Gas Turbine Power Project/Thiruvarur,
Office of the Superintending Engineer/Gas Turbine Power Project/Thiruvarur.

IV. HEAD QUARTERS :

1. Thiru K. Srinivasan, Assistant Executive Engineer, Anti Power Theft Squad,
Office of the Superintending Engineer/Chennai Electricity Distribution
Circle/Central.
2. Thiru D. Loganathan, Selection Grade Section Officer,
Board Office Secretariat Branch.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

* * *

Memorandum (Permanent) No. 59427/A18/A182/2000-1, (Secretariat Branch), dated 12.12.2000.

Sub: Economy in expenditure on Travel Expenses - Instructions Issued -
Reiterated.

Ref: Board's Memo. No. 4138/P2/91-1, dated 16.2.91.

In the Memorandum cited, in order to minimise the expenditure on travel, it has been instructed among other things, that so far as travel by Air is concerned, the Heads of Departments can exercise their discretion as to who, among those eligible for Air Travel will be permitted to travel by Air, since the Air fares are being raised by about 25 percent every year. The others even though eligible could be asked to travel by train in view of economy.

2. Further, the mere sanction of four advance cannot be taken as permission granted to the officer to travel by Air by the Competent Authority. For travel by Air, specific sanction has to be obtained from the Head of Department apart from sanction of tour advance by the Competent Authority. The authority competent to sanction tour advance for air travel should ensure before sanction whether the official has been permitted to travel by air in view of the specific instructions indicated in para 1 above.

3. Receipt of this Memorandum should be acknowledged.

G. Gnanaselvam,
Secretary.

Memorandum (Permanent) No.90980/A18/A181/2000-1, (Secretariat Branch), dated 12th December 2000.

Sub: Vigilance Cases Charges framed under Regulation 8 (a) and 8 (b) of Tamil Nadu Electricity Board Discipline and Appeal Regulations - Instructions - Issued.

Ref: From the Secretary/Energy Department Letter No.9771/B2/2000-1, dated 20.10.2000.

On perusal of the final orders issued by the various disciplinary authorities, it is observed that most of the cases have ended up in dropping the charges as the Regulations under which the charges were framed have not been properly identified.

2. It is further noticed that a tremendous wastage of time for having restored to the procedure under Regulation 8 (b) viz. Appointing Enquiry Officer, making him to do the enquiry, getting his reports, getting the Accused Officer's explanation and getting orders from the punishing authority. Instead of adopting the procedure under Regulation 8 (b) and in the end, dropping the charges if only 8 (a) procedure had been adopted it would have simplified the matters immensely. In that case, only a simple explanation could have been decided by the D.P. authority with available evidence. Even under Regulation 8 (a), the Disciplinary Authority can award the punishment of stoppage of increment upto 3 years without cumulative effect. Accordingly, the punished persons concerned would have been dropped from being considered for inclusion in the panel for promotion during the currency of punishment. Instead of delivering a quick punishment, the long winded procedure have been restored to inflicting unintended misery on the Accused Officer.

3. All Disciplinary Authorities are therefore requested to consider and apply their mind well to each and every case before deciding to frame charges under Regulation 8 (b). The main factors that would go in favour of framing charges under Regulation 8 (b) are as follows:-

Is there prima facie sufficient evidence which is likely to prove the officer guilty of grave charges as are likely to end in any one of the following punishments:-

- (i) Reduction in rank.
- (ii) Compulsory retirement.
- (iii) Removal from service.
- (iv) Dismissal from service.

Only if answers to the questions are in the affirmative, the charges may be framed under Regulation (b). In all other cases, it seems fair and proper that the charges may be framed under Regulation 8 (a) only.

4. All Disciplinary Authorities of the Board are requested to adhere to the above instructions scrupulously while dealing with Disciplinary Proceeding cases in future, without any deviation.

5. Receipt of this Memorandum shall be acknowledged.

G. Gnanaselvam,
Secretary.

* * *

HOLIDAYS - Tamil Nadu Electricity Board - Holidays for employees of the Tamil Nadu Electricity Board for Calendar year 2001 - Orders - Issued.

(Permanent) B.P. (Ch.) No.314

(Secretariat Branch)

Dated 13th December 2000.
Vikrama, Karthigai 28,
Thiruvalluvar Aandu, 2031.

Proceedings:-

The Tamil Nadu Electricity Board directs that the employees of the Board on time-scale of pay be granted holidays during the year 2001 as detailed in the Annexure.

2. The number of holidays allowed will not be a precedent for future years. If any one of the occasions mentioned in the Annexure, for which a holiday is declared, happens to fall on normal holiday like Sunday in the future year, no substituted holiday on that account will be allowed. Besides, the Tamil Nadu Electricity Board shall also follow any other order that may be issued by the Government of Tamil Nadu declaring holidays on special occasions and compensatory working days in lieu thereof, during the year 2001.

3. The monthly rated employees of the Board may also have a holiday on Sundays or any other day in the week in lieu of Sundays.

4. The Tamil Nadu Electricity Board also directs that the employees of the Board in a particular Office or other Unit, who have been allowed a holiday on Second Saturday of each month during the previous years may be granted a holiday on the Second Saturday of each month during the year 2001 also, if they continue to work in the same office or unit in the year 2001.

5. The Board further directs that in addition to the holidays mentioned in the Annexure, Pongal, on 14th January 2001, Tamil New Year's day and Birth Day of Dr.B.R. Ambedkar on 14th April 2001, Sri Krishna Jayanthi (Janmashtami) on 11th August 2001 which fall on Sunday and Second Saturday shall be a holiday for the shift operation staff for whom that day is not a holiday.

(By Order of the Chairman)

Encl.: 1 Annexure

G. Gnanaselvam,
Secretary.

ANNEXURE

1.	Monday,	the 1st January 2001	-	New Year's Day
2.	Sunday,	the 14th January 2001	-	Pongal
3.	Monday,	the 15th January 2001	-	Thiruvalluvar Day
4.	Tuesday,	the 16th January 2001	-	Uzhavar Thirunal
5.	Friday,	the 26th January 2001	-	Republic Day
6.	Tuesday,	the 6th March 2001	-	Bakrid
7.	Monday,	the 26th March 2001	-	Telugu New Year's Day
8.	Thursday,	the 5th April 2001	-	Muharram
9.	Friday,	the 6th April 2001	-	Mahaveer Jayanthi
10.	Friday,	the 13th April 2001	-	Good Friday
11.	Saturday,	the 14th April 2001	-	Tamil New Year's Day and Birthday of Dr.B.R. Ambedkar
12.	Tuesday,	the 1st May 2001	-	May Day
13.	Tuesday,	the 5th June 2001	-	Meelad-un-Nabi
14.	Saturday,	the 11th August 2001	-	Srikrishna Jayanthi (Janmashtami)
15.	Wednesday,	the 15th August 2001	-	Independance Day
16.	Wednesday,	the 22nd August 2001	-	Vinayaka Chaturthi
17.	Tuesday,	the 2nd October 2001	-	Gandhi Jayanthi
18.	Thursday,	the 25th October 2001	-	Ayudha Pooja
19.	Friday,	the 26th October 2001	-	Vijayadhasami
20.	Wednesday,	the 14th November 2001	-	Deepavali
21.	Monday,	the 17th December 2001	-	Ramzan
22.	Tuesday,	the 25th December 2001	-	Christmas.

/ True Copy /

Regulation - Tamil Nadu Electricity Board Service Regulations - Placing of one Chief Head Draughtsman at the top of the panel for promotion to the post of Assistant Executive Engineer/Electrical and Assistant Executive Engineer/Civil - Amendment to Regulation 92 - Orders - Issued.

(Permanent) B.P. (Ch.) No.101

(Secretariat Branch)

Dated 14th December 2000.
Karthigai 29, Vikrama,
Thiruvalluvar Aandu, 2031.

Read:

(Per.) B.P. (FB) No.18, (A.B.), dated 3.7.99.

Proceedings:-

In exercise of the powers conferred by Section 79 (c) of the Electricity (Supply) Act, 1948, (Central Act 54 of 1948), the Tamil Nadu Electricity Board hereby makes the following amendment to the Tamil Nadu Electricity Board Service Regulations :-

AMENDMENTS

In the said Regulations, in Annexure I referred to in Regulation 92,

- (i) Under the heading "Class II" and sub-heading "Division II (Electrical)" in column (1) and against "category 1" the following shall be added after the existing provisions in Column (2) thereon namely;

"One Chief Head Draughtsman shall be placed at the top of each and every annual panel for promotion to the post of Assistant Executive Engineer/Electrical".

- (ii) Under the heading "Class II" and sub-heading "Division III (Civil)" in column (1) and against "category 1" the following shall be added after the existing provisions in Column (2) thereon namely;

"One Chief Head Draughtsman shall be placed at the top of each and every annual panel for promotion to the post of Assistant Executive Engineer/Civil".

2. Receipt of the Board's Proceedings shall be acknowledged.

(By Order of the Board)

G. Gnanaselvam,
Secretary.

* * *

Memorandum (Permanent) No.82678/A3/A32/99-2, (Secretariat Branch), dated 14.12.2000.

Sub: ALLOWANCES - City Compensatory Allowance - Eligibility to Thathamangalam Panchayat in Tiruchi District - Sanctioned.

- Ref: 1. From the Superintending Engineer/Tiruchi Electricity Distribution Circle/Metro Letter No.76686/391-1, Adm.I/A1/F.3/WM/99, dated 1.9.99 addressed to Chief Engineer/Personnel.
2. From the Superintending Engineer/Tiruchi Electricity Distribution Circle/Metro Letter No.76686/391-2, Adm.II/A1/F.3/WM/2000, dated 21.6.2000.

The Superintending Engineer/Tiruchirapalli Electricity Distribution Circle/Metro, is permitted to claim City Compensatory Allowance to the employees working in Akkaraipatti, Manikapuram and Mallikkudi Villages coming under Thathamangalam Panchayat in Tiruchi District.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

Letter No.98092/A19/A192/2000-1, (Secretariat Branch), dated 16.12.2000.

Sub: Payment of arrears - Revision of Scales of pay for the period from 1.12.96 to 31.3.98 - Arrears credited to General Provident Fund - Payment to legal heirs - Certain Clarification - Issued.

- Ref: 1. Memo.No.52496-Q2/98-1, dt.21.9.1998.
 2. Letter No.67404/A19/A192/2000-1, dt.4.11.2000.
 3. SE/Chennai EDC Lr.No.SE/CEDC/N/AAO/Cash/D.345/2000, dt.20.11.2000.
 4. CIAO U.O.Note No.57822/169/F24/F242/2000- dt.23.11.2000.

Following clarifications are issued on the regulation of payment of 50% arrears of pay revision which was impounded and credited to General Provident Fund Account:-

<u>Points raised</u>	<u>) Clarification issued</u>
1. In the case of employees died after 1.12.1996 the pay revision arrears credited to General Provident Fund Account can be drawn and paid before 1.7.2003 to the legal heir on receipt of claim from them.))) Yes))
2. It is presumed that in the case of Board employee died after 1.12.1996 the entire amount of pay revision arrears credited to General Provident Fund may be paid with interest applicable to General Provident Fund rate (Prevailing rate) from 1.7.1998 upto the date of death of the employee, to the spouse/legal heirs as the case may be.))) The presumption is confirmed.)))))))

2. The receipt of the letter shall be acknowledged.

G. Gnanaselvam,
Secretary.

* * *

Memorandum (Permanent) No.42379/A23/A232/2000-1, (Secretariat Branch), dated 16.12.2000.

Sub: Establishment - Tamil Nadu Electricity Board - Training - Change of nomenclature of post of Chief Instructors and Assistant Chief Instructors - Orders - Issued.

Ref: From the CE/R&D/Chennai-2, Lr.No.791/DTS/N21/N211/2000-1, dt. 31.5.2000.

The request for change of nomenclature of the posts of Chief Instructors and Assistant Chief Instructors in Training Wing of Tamil Nadu Electricity Board to the original post namely Assistant Executive Engineer and Assistant Engineer was examined in detail.

2. The Tamil Nadu Electricity Board hereby directs that the post of Chief Instructors and Assistant Chief Instructors be redesignated as Assistant Executive Engineer (Training) and Assistant Engineer (Training) respectively.

3. The receipt of the orders shall be acknowledged.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

ESTABLISHMENT - Creation of one Flying Squad to detect Theft of Energy - Creation of certain posts - Modification - Orders - Issued.

(Permanent) B.P. (Ch.) No.320

(Secretariat Branch)

Dated the 26th December 2000,
Maarghazhi 11, Vikrama,
Thiruvalluvar Aandu 2031.

Read :

(Permanent) B.P. (Ch.) No.310, (S.B.), dt. 12.12.2000.

Proceedings:-

In partial modification of the orders issued in the B.P. cited, the Tamil Nadu Electricity Board hereby directs that two post of Junior Engineer/Electrical I Grade be created duly abolishing one post of Assistant Engineer/Electrical sanctioned in the B.P. cited for a period of six months from the date of utilisation of the posts.

2. The incumbents of the posts sanctioned in para 1 above will be eligible to draw the usual 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 "Tamil Nadu Electricity Board Funds - Revenue Expenses - 75 - Employees costs - 75-1 - Salaries - 75-110 - Salaries - Provincial".

4. Receipt of this order shall be acknowledged.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

Memorandum (Permanent) No. 109407/A22/A221/2000-1, (Secretariat Branch), dt.26.12.2000.

Sub: Establishment - Granting of Permission to Class I & II Officers of the Board to drive Board's Vehicle at the time of emergency - Orders - Issued.

The Tamil Nadu Electricity Board hereby directs that the Class I & II Officers of the Board who possess a valid license to drive Motor vehicle be permitted to drive Board's vehicle at times of emergency.

2. Receipt of this Memorandum should be acknowledged.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

சுற்றறிக்கை எண். 119693/1077/ஜி.47/ஜி.471/2000-1, (நிர்வாகக் கிளை), நாள் 27.12.2000.

பொருள்: தமிழ் வளர்ச்சி - ஆட்சி மொழிச் செயலாக்கத் திட்டம் - உடல் நல நிதித் திட்டத்திற்கான கருத்துருவினை சரிபார்க்கும் பட்டியலின் ஆங்கிலப் படிவம் - தமிழாக்கம் செய்து அனுப்புதல் - தொடர்பாக.

பார்வை: 24.10.2000 நாளிட்ட சார்புச் செயலர்/ஊதிய மாற்றம், செயலகக் கிளை அவர்களின் அ.சா.கு.எண்.77469/அ17/அ172/2000-1.

பார்வையில் கண்டுள்ள அலுவல் சாராக் குறிப்பின் வாயிலாக சார்புச் செயலர்/ஊதிய மாற்றம், செயலகக் கிளை அவர்களிடமிருந்து பெறப்பட்ட உடல் நல நிதித் திட்டத்திற்கான கருத்துருவினை சரிபார்க்கும் பட்டியலின் ஆங்கிலப் படிவம் தமிழாக்கம் செய்து இத்துடன் இணைத்து அனுப்பப்படுகின்றது.

2. தமிழ் ஆட்சி மொழித் திட்டம் தீவிரமாக நடைமுறைப்படுத்த, இனி வருங்காலங்களில் உடல் நல நிதித் திட்டத்திற்கான கருத்துருவினை சரிபார்க்கும் பட்டியலின் மாதிரி தமிழாக்கப் படிவத்தை பயன்படுத்த வேண்டுமென்று மின்வாரிய அனைத்து அலுவலகங்களிலுள்ள அலுவலர்கள்/பணியாளர்கள் மற்றும் இதர அலுவலர்களும் கேட்டுக் கொள்ளப்படுகிறார்கள். இதனை நடைமுறைப் படுத்தியதற்கான தகவலினை உடன் தெரிவிக்குமாறுக் கேட்டுக் கொள்ளப்படுகிறார்கள்.

3. இச்சுற்றறிக்கை பெற்றமைக்கான ஒப்புக்கையினை அனுப்பி வைக்கும்படி கேட்டுக் கொள்ளப்படுகிறார்கள்.

(செயலாளரின் உத்தரவின்படி)

இணைப்பு: தமிழாக்கம்/ஆங்கிலப் படிவங்கள்

மு. சொக்கலிங்கம்,
தலைமைப் பொறியாளர்/பணியமைப்பு.

பிற்சேர்க்கை

தலைமைப் பொறியாளர்/மேற்பார்வைப் பொறியாளர் அவர்கள் வாரியச் செயலக் கிளைக்கு இரட்டிப்பு படிவங்களில் அனுப்ப வேண்டிய உடல் நல நிதித் திட்டத்திற்கான கருத்துருவினை சரிபார்க்கும் பட்டியல்.

1. பணியாளரின் பெயர் :
2. வகிக்கும் பதவி :
3. அலுவலகம்/வட்டம் :
4. சிகிச்சையானது தனக்காக/தகுதி நிலைச் சட்டப்படி பணியாளரின் குடும்பத்தை சார்ந்துள்ளவர் விவரம் :
5. சிகிச்சையின் தன்மை/அறுவை சிகிச்சை மற்றும் மருத்துவ மனையில் சிகிச்சைக்காக இருந்த காலம் :
6. சிகிச்சை/அறுவை சிகிச்சை எந்த மருத்துவ மனையில் நடைபெற்றது? :
7. சிகிச்சை/அறுவை சிகிச்சை நடைபெற்ற மருத்துவ மனை ஏற்பளிக்கப்பட்ட நிலையமா? :
8. சிகிச்சை/அறுவை சிகிச்சை நடைபெற்ற பின்னர், அதற்கான செலவழிக்கப்பட்ட தொகை கோரப்படுகின்றதா? அல்லது அதற்கான முன்பணம் கோரப்படுகின்றதா? :
9. நோயாளி, ஏற்பளிக்கப்பட்ட மருத்துவ மனையின் மருத்துவரின் அறிவுரைப்படி சிகிச்சை/அறுவை சிகிச்சைக்காக கொடுக்கப்பட்ட மருந்துக் குறிப்புடன் அதன் விலைப் பட்டியலும் அளிக்கப்பட வேண்டும் :
10. மருத்துவ மனையிலிருந்துப் பெறப்பட்ட வெளியேற்ற சுருக்க அறிக்கை, பட்டியல்கள் மற்றும் செலவுச் சீட்டு ஆகியவற்றின் மூலப்படிக்களை பணியாளர் விண்ணப்பத்துடன் அளித்துள்ளாரா? :
11. மனுதாரர் விண்ணப்பத்துடன் அளித்துள்ள பட்டியல்கள் மற்றும் வெளியேற்ற சுருக்க அறிக்கை சான்றளிக்கப்பட்டுள்ளதை இந்த விண்ணப்பத்தை அனுப்பும் அதிகாரியினால் அவைகள் கூர்ந்தாய்ந்து சரிபார்க்கப்பட்டுள்ளனவா? :
12. இந்த நேர்வில், விண்ணப்பதாரர் எந்த அலுவலரின் கட்டுப்பாட்டின் கீழ் பணிபுரிகின்றாரோ அவரால் பரிந்துரைக்கப்பட்டுள்ளதா? :
13. மேற்கண்ட கோரிக்கை ஏற்பளிக்கப்பட்ட மருத்துவ மனையில் சிகிச்சை/அறுவை சிகிச்சை எடுத்துக் கொண்ட காலத்திற்கு மட்டுமே கேட்கப்பட்டுள்ளதா? :
14. அ. விண்ணப்பதாரர் மருத்துரவச் செலவு ஈடு செய்யும் திட்டத்தின் கீழ் வருபவரா? :
- ஆ. அவள்/அவர் 1993-ம் ஆண்டிலிருந்து உடல் நல நிதித் திட்டத்திற்கான சந்தா அளித்துள்ளாரா? :

15. விண்ணப்பதாரரின் கணவன்/மனைவி, மத்திய/மாநில அரசு அல்லது தமிழ்நாடு மின் வாரியம் அல்லது பொதுத்துறை சார்ந்த நிறுவனத்தில் பணிபுரிபவரா? அப்படி ஆனால் இணைச் சான்றுதல் பெறப்பட்டு விண்ணப்பதாரரின் பணிப் பதிவேட்டில் பதியப்பட்டுள்ளதா? :
16. வாரியப் பணியாளரின் கணவன்/மனைவி வாரியத்தைத் தவிர வேறு துறையின் அலுவலகத்தில் பணிபுரிபவராக இருப்பின் இச்சலுகை அவருக்கு உள்ளதா? அப்படி இருப்பின், தமிழ்நாடு மின் வாரியத்தில் ஏன் இச்சலுகைக்காக கோரப்பட்டள்ளது? :
17. விண்ணப்பதாரரின் கணவர்/மனைவி பணிபுரியும் துறையில் இந்த சிகிச்சை/அறுவை சிகிச்சைக்காக வாரியத்திலுள்ள சலுகை போல் இருந்து அதனை அவர்/அவள் அச்சலுகையினை பயன்படுத்தவில்லை என சான்றளித்துள்ளாரா? :
18. விண்ணப்பதாரர் பாரத பிரதமர்/முதலமைச்சர் இடர் உதவி நிதி : இவை இரண்டில் ஏதேனும் ஒன்றிலிருந்து தொகை அல்லது வேறு ஏதேனும் அறக்கட்டளை நிலையத்திலிருந்து நிதி உதவி பெற்றுள்ளாரா/விண்ணப்பித்துள்ளாரா? :
19. விண்ணப்பதாரர், உடல் நல நிதி திட்டத்தின் கீழ் இதற்கு முன்னதாக அவர்/அவரது குடும்பத்தைச் சார்ந்துள்ளவருக்காக பயனடைந்துள்ளாரா? அப்படி இருப்பின் அதன் விவரத்தைத் தருக. :
20. விண்ணப்பதாரர், சிகிச்சை/அறுவை சிகிச்சை இவை இரண்டினையும் வெளி நாட்டில் சிகிச்சை பெற்றமைக்காக பண உதவி பெற விண்ணப்பித்துள்ளாரா? :
21. விண்ணப்பதாரரின் கணவன்/மனைவி அல்லது குடும்பத்தார் அல்லது அவரைச் சார்ந்துள்ளவர் இவர்களில் யாருக்காக தொகை கோரப்படுகிறதோ அவர்களில் யாராவது குடும்ப ஓய்வூதியம் அல்லது இராணுவ ஓய்வூதியம் பெறுபவரா? அப்படி இருப்பின் அதன் விவரம் தருக. :
22. பட்டியல்கள் மற்றும் செலவுச் சீட்டுகளின் விபர அறிக்கை இத்துடன் இணைக்கப்பட்டுள்ளதா? :
23. மருத்துவக் கோரிக்கை அல்லது மருத்துவ கவன காப்பீடு இவை இரண்டின் கீழ் விண்ணப்பதாரர் உட்பட்டு அதற்கு வருமான வரிச் சலுகை அளிக்கப்பட்டுள்ளதா? :
24. விண்ணப்பதாரரால் கோரப்படும் மொத்தத் தொகை : :
25. இந்த விண்ணப்பத்தினை அதிகார பூர்வமாக அனுப்புபவரின் குறிப்பிடத்தக்க பரிந்துரை : :

விண்ணப்பத்தினை அதிகார பூர்வமாக அனுப்புபவரின் பெயர், வகிக்கும் பதவி மற்றும் நாள்.

CHECK-LIST TO BE FURNISHED BY CHIEF ENGINEER/SUPERINTENDING ENGINEER IN DUPLICATE WHILE FORWARDING THE HEALTH FUND SCHEME PROPOSAL TO BOARD

ANNEXURE

1. Name of the employee :
2. Designation :
3. Office/Circle :
4. Treatment for self/Family dependant Marital Status of the employee with details of member of family :
5. Nature of Treatment/Surgery and period of hospitalisation/treatment :

6. Name of the hospital where treatment/surgery undergone is an accredited institution :
7. Whether the hospital where treatment/surgery undergone is an accredited institution :
8. Whether the claim is made after the treatment/Surgery was over or for advance payment :
9. Whether the prescriptions of the Doctor of the accredited institutions, whom the patient has consulted along with the tentative cost of the treatment/Surgery are furnished :
10. Whether the employee has the discharge summary report, bills and vouchers in original obtained from the hospital along with his application :
11. Whether the authority forwarding the application has given certificate to the effect that he has verified and scrutinised bills and discharge summary report and found them to be correct :
12. Whether the officer under whom the applicant is working has recommended the case :
13. Whether the claim is made only for the period of treatment/surgery undergone in the accredited institution :
14. a. Whether the applicant is covered under Medical reimbursement claim :
- b. Whether he/she has subscribed for the Health Fund Scheme since 1993 :
15. Whether the spouse of the applicant is working either in Central/ State Government or T.N.E.B. or Public Sector Undertaking or in private company. If so, whether joint declaration has been received and service book of the applicant :
16. Whether similar facility is available in case the spouse of the Board Employee is employed other than in the T.N.E.B. If so why the claim has been made from the T.N.E.B. :
17. Whether the applicant has given certificate to the effect that his/her spouse has not claimed for the same treatment/surgery in his/her Department in case similar facility is available :
18. Whether the applicant has applied/received any amount either from the Prime Minister's Relief Fund or Chief Minister's Relief Fund or from any other charitable institution :
19. Whether the applicant has availed any benefit previously under the Health Fund Scheme either to his/her family/ dependant. If so, furnish the details :
20. Whether the applicant has applied for the grant of financial assistance of loan under the Health Fund Scheme of both, in the treatment/surgery is taken outside India :
21. Whether the spouse of the family or dependant for whom the claim is made, is getting any family pension. If so the details may be furnished :
22. Whether statement of the bills and vouchers has been enclosed :
23. Whether the applicant is covered under either Mediclaim or Insurance of Medicare where Income Tax rebate has been allowed :

24. Total amount claimed by the applicant :
25. Specific recommendation of the authority forwarding the application :

Signature of the Authority
forwarding the application
with designation and date

* * *

TAMIL NADU ELECTRICITY BOARD - Delegation of Powers to Chief Engineers in respect of work in Computers and related Software - Withdrawal - Orders - Issued.

(Permanent) B.P. (Ch.) No.328

(Secretariat Branch)

Dated the 30th December 2000.
Margazhi 15, Vikrama Varudam,
Thiruvalluvar Aandu 2031.

Read :

- i) (Permanent) B.P. (F.B.) No.20, (S.B.), dt.13.5.99.
- ii) Chief Financial Controller/General's U.O.Note No.CFC/T/AO/T/
F.TR/D.28/462/2000, dt.4.12.2000

Proceedings:-

In the B.P. cited, Orders were issued, interalia, delegating powers to sanction of estimate for day-to-day work in Computer and related software to the Chief Engineers upto Rs.5 lakhs and exceeding Rs.5 lakhs to the Chairman. It has now been decided to withdraw the powers of the Chief Engineers.

2. In partial modification of the orders issued in the B.P. 1st cited, the Tamil Nadu Electricity Board hereby directs that the powers delegated to the Chief Engineers in item No.9 (iv) in Annexure-I of the B.P. cited for sanction of estimates upto Rs.5 lakhs to the Chief Engineers for the day-to-day work in Computers and related Software be withdrawn.

3. Receipt of this B.P. shall be acknowledged.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

* * *

FINANCE

PART - III Finance

Specification - T.933 - Fabrication, Supply, Erection and Commissioning of 210 Kms. of 230 KV Single Circuit Transmission Line in respect of 230 KV missing Link in the EHT Grid - Proposal for placing orders - Approval.

Routine B.P. (F.B.) No.11

(Technical Branch)

Dated 1.12.2000.

Karthigai 16, Vikkrama Aandu,
Thiruvalluvar Aandu 2031.

Read :

1. Board Approval communicated vide Memo.No.93000/A10/A101/2000-6,
dt.29.11.2000.

Proceedings:-

The Tamil Nadu Electricity Board approves the proposal of Chief Engineer/Transmission to award the Total Turn Key Contract to M/s.BSES Ltd., Chennai to a total contract value of Rs.28,95,48,557.00 in respect of Fabrication (as per drawings furnished by Board), Supply, Erection and Commissioning of 230 KV Single Circuit Transmission Lines to a total route length of 210 Kms. as detailed below :

Sl. No.	Name of Line	Route Length	Contract Value in Rs.	Period of Completion
1.	Erection of 230 KV Single Circuit Transmission Line between Karaikudi SS and Madurai North SS.	80 Kms.	10,97,70,846/-	Within 6 (Six) months from the date of award of contract.
2.	Erection of 230 KV Single Circuit Transmission Line between Theni SS and Sembatty SS.	60 Kms.	8,24,20,664/-	Within 6 (Six) months from the date of contract simultaneously along with item 1 above.
3.	Erection of 230 KV Single Circuit Transmission Line between Villupuram S.S. and Thiruvannamalai S.S.	70 Kms.	9,73,57,047/-	On satisfactory completion of item 1 & 2 above and shall be taken up after 6 (six) months from the date of award of contract and completed within 12 (twelve) months from the date of award of contract.

GRAND TOTAL VALUE OF CONTRACT = Rs.28,95,48,557.00

(By Order of the Board)

A.S. Kandasamy,
Chief Engineer/Transmission.

குறிப்பாணை எண். 954/77அ3/அ32/2000-1, (செயலகக் கிளை), நாள் 2.12.2000.

பொருள் படிக்கள் - அகவிலைப்படி - 1.7.2000 முதற்கொண்டு உயர்த்தப்பட்ட அகவிலைப்படி வீதம் - ஆணைகள் - திருத்தம் - வெளியிடப்படுகிறது.

பார்வை: மின்வாரிய (நிரந்தரம்) ஆணை (முழு குழுமம்) எண். 93, (செயலகக்கிளை) நாள் 30.11.2000.

பார்வையில் கண்ட மின் வாரிய ஆணையின் இணைப்பில் உள்ள ஒரு இனத்திற்கு கீழ்க்கண்ட திருத்தம் வெளியிடப்படுகிறது :-

திருத்தம்

அடிப்படைச் சம்பளம் ரூ.13.800/-க்கு திருத்தப்பட்ட அகவிலைப்படி ரூ.5648/- என்று கொடுக்கப்பட்டிருப்பதை ரூ.5658/- என்று திருத்தி வாசிக்கவும்.

கோ. ஞானசெல்வம்,
செயலாளர்.

Circular Memo.No. DFC/T/AO/T/F.Adv.Payment/772/2000, (Accounts Branch), dt.4.12.2000.

Sub: Electricity - Purchase of materials/execution of works - Restriction of advance payment - Regarding.

While placing purchase orders for procurement of materials/execution of works, the purchasing authorities are granting advance payment to the suppliers/contractors indiscriminately which ultimately results in locking up of funds borrowed at high cost besides creating financial crisis. In order to streamline the procedure on making advance payments, it is hereby instructed that no advance payment shall be made for civil works, and purchases except supplies like coal.

Hence, wherever advance payment is unavoidable for essential purchases prior approval from Accounts Member should be obtained and no advance payment should be made without the prior approval of Accounts Member.

R. Poornalingam,
Chairman.

Pension - Dearness Allowance to pensioners and family pensioners - Revised rates from 1st July 2000 - Orders - Issued.

(Permanent) B.P. (Ch.) No.302

(Secretariat Branch)

Dated 5th December 2000.

Vikkirama, Karthigai 20,
Thiruvalluvar Aandu 2031.

Read :

1. (Per.) B.P. (Ch.), No.166, (S.B.), dt.26.7.2000.
2. G.O.Ms.No.524, Fin. (Pen.) Dept., dt.14.11.2000.

Proceedings:-

In the Government Order cited, the Government of Tamil Nadu have revised the rates of Dearness Allowance payable to their pensioners/family pensioners with effect from 1st July 2000. The Tamil Nadu Electricity Board has decided to adopt the Government Orders to the pensioners/family pensioners of the Tamil Nadu Electricity Board also.

2. Accordingly, the Tamil Nadu Electricity Board directs that the pensioners/family pensioners of the Tamil Nadu Electricity Board shall be paid Dearness Allowance with effect from 1st July 2000 at the following rates :

Date from which payable	Revised rate of Dearness Allowance (Per month)
1st July 2000	41% of pension/family pension

3. The families of deceased, Contributory Provident Fund/Non-pensionable establishment beneficiaries who are in receipt of Ex-gratia payment of Rs.605/- per month with reference to (Permanent) B.P. (Ch.) No.238 (S.B.) dt.22.9.98 of the Board shall also be paid Dearness Allowance at the rate of 33% per month with effect from 1.7.2000.

4. The difference between the Dearness Allowance drawn from 1st July 2000 and the revised Dearness Allowance now ordered shall be drawn and paid as arrears for the pensioners/family pensioners and families of deceased Contributory Provident Fund/non-pensionable establishment beneficiaries who are in receipt of Ex-gratia payment of Rs.605/- per month with reference to (P) B.P. (Ch.) No.238 (SB), dt.22.9.98. The amount of Dearness Allowance involving a fraction of a rupee shall be rounded off to the next higher rupee.

5. These orders are applicabale to the present and future family pensioners. In the case of divisible family pension, the Dearness Allowance shall be divided proportionately.

(By Order of the Chairman)

G. Gnanaselvam,
Secretary.

Electricity - Theft of Electricity and other malpractices furnishing of information - Detection - Payment of Cash Reward - Enhancement - Orders issued.

(Permanent) B.P. (F.B.) No.97

(Secretariat Branch)

Dated 7.12. 2000.

Karthigai, Vikrama,
Thiruvalluvar Aandu 2031.

Read :

1. B.P.Ms.No.49 (F.B.) Sectt.Br., dated 13.4.1983.
2. Permanent B.P. (FB) No.20 (Sectt.Br.), dt.13.5.99.
3. Per.B.P. (F.B.) No.80 (Tech.Br.) dated 26.4.2000.
4. Extract from the minutes of 838th meeting of the Board held on 27.11.2000. (Item No.11).

Proceedings:-

In order to encourage the members of general public and TNEB Officers including Anti Power Theft Squads (APTS) personnel in giving useful information etc. about energy thefts the Board, in B.P.Ms.No.49 (FB) (SB) dt.13.4.83, had formulated a scheme for giving suitable monetary reward to them.

On account of high rate of inflation in the last 17 years, the rupee value has fallen considerably and the reward amount fixed in the said B.P. has lost much of its motivational value.

Further, in B.P.Ms.No.80 (Tech.Br.), dated 26.4.2000, the Board has decided to impart greater impetus to detection of energy thefts. Such job most warrants exhibition of skill and courage under adverse conditions including hostility from the offenders of energy thefts. Necessity to motivate the TNEB staff including APTS personnel to put in better effort has now become even more essential.

In order to provide this requisite motivation to the Public informants as well as TNEB Officials, the Board examined a proposal for revision of the cash reward originally sanctioned in B.P.49, dated 13th April 83.

2. After careful consideration, the Board directs that the cash rewards sanctioned in B.P.Ms.No. 49 (F.B.) (Secretariat Branch), dated 13th April 1983 be paid at double the rates already fixed.

This orders shall take effect from 27.11.2000.

(By Order of the Board)

G. Gnanaselvam,
Secretary.

* * *

Tamil Nadu Electricity Board - Employees' Special Provident Fund-cum-Gratuity Scheme - Payment of interest on the employees subscription beyond 148th instalment - Revised orders - Issued.

(Permanent) B.P. (F.B.) No.98

(Secretariat Branch)

Dated 8th December 2000.
Vikkirama, Karthigai 23,
Thiruvalluvar Aandu 2031.

Read :

1. (Per.) B.P. (FB) No.35 (SB), dt.15.5.1997.
2. G.O.Ms.No.473, Finance (Pension) Department, dt.17.10.2000.

Proceedings:-

The Tamil Nadu Electricity Board has introduced the Special Provident Fund-cum-Gratuity Scheme from 1.4.1984 based on the orders of Government. According to the Scheme an employee has to pay Rs.20/- per month till the subscription together with interest adds upto Rs.5000/-. The employees subscription will carry 8% compound interest till the subscription together with interest reaches upto Rs.5,000/- (i.e. upto 148th instalment). Afterwards it shall be treated on par with General Provident Fund subscription and General Provident rate of interest will apply. The rate of interest towards General Provident Fund subscription was raised from time to time since 1984, and it was 12% since 1996-97. Accordingly, as per the orders issued in (Per.) B.P. (FB) No.35 (SB) dated 15.5.1997, those who have already subscribed 148 instalments as at the end of July 1996 shall be paid the principal amount of Rs.5,021/- plus interest thereon at 12% per annum on the second stage of interest calculation. Now the Government have issued orders reducing the rate of interest from 12% to 11% per annum on General Provident Fund subscription. It has therefore been decided to reduce the rate of interest from 12% to 11% with effect from 1.8.2000 towards second stage of interest calculation for the Tamil Nadu Electricity Board Employees' Special Provident Fund-cum-Gratuity Scheme.

2. The Tamil Nadu Electricity Board hereby directs that the rate of interest payable on the principal amount of Rs.5,021/- shall be 11% compounded annually with effect from 1.8.2000. However, past cases, already settled prior to the date of this order at the rate of 12% shall not be re-opened.

3. An illustration for the calculation of interest is annexed to this order. Receipt of this order shall be acknowledged.

(By Order of the Board)

G. Gnanaselvam,
Secretary.

Encl:

ANNEXURE

ILLUSTRATION

A Tamil Nadu Electricity Board employee is due to retire on superannuation on 31st January, 2002.

	Rs.
Subscription paid for 148 instalments at Rs.20/- per month	2960
Interest allowed upto 31.7.96 as per the table of repayment	2061
Total	5021

	Rs.
From 1.8.96 onwards the principal amount for calculation of interest will be Rs.5021/-.	
Interest for the period from 1.8.96 to 31.7.97 on Rs.5021/- = Rs.5021/- x 12/100 = Rs.602.52 rounded to nearest rupee	603
Total at the end of 31.7.97 = Rs.5021+603	5624
From 1.8.97 onwards the principal amount will be Rs.5624	
Interest for the period from 1.8.97 to 31.7.98 on Rs.5624 = Rs.5624 x 12/100 = Rs.674.88 rounded to nearest rupee	675
Total at the end of 31.7.98 = Rs.5624 + 675	6299
From 1.8.98 onwards the principal amount will be Rs.6299	
Interest for the period from 1.8.98 to 31.7.99 on Rs.6299 = Rs.6299 x 12/100 = Rs.755.88 rounded to nearest rupee	756
Total at the end of 31.7.99 = Rs.6299 + 756	7055
From 1.8.99 onwards the principal amount will be Rs.7055	
Interest for the period from 1.8.99 to 31.7.2000 on Rs.7055 = Rs.7055 x 12/100 = Rs.846.60 rounded to nearest rupee	847
Total at the end of 31.7.2000 = Rs.7055 + 847	7902
From 1.8.2000 onwards the principal amount will be Rs.7902	
Interest for the period from 1.8.2000 to 31.7.2001 on Rs.7902 = Rs.7902 x 11/100 = Rs.869.22 rounded to nearest rupee	869
Total at the end of 31.7.2001 = Rs.7902 + 869	8771
From 1.8.2001 onwards the principal amount will be Rs.8771	
Interest for the period from 1.8.2001 to 31.1.2002 on Rs.8771 = Rs.8771 x 11/100 x 6/12 (for six months)	
= Rs.482.41 rounded to nearest rupee	482
Total at the end of 31.1.2002 = Rs.8771 + 482	9253
So total interest to be allowed is Rs.(9253 - 2960)	6293

The retiring employee will get an agreegate amount as given below:-

Principal	=	Rs. 2960
Interest	=	Rs. 6293
T.N.E.B. Contribution	=	Rs. 5000
Total amount to be paid	=	Rs.14253

/True copy/

Memorandum (Permanent) No.89771/A17/A172/2000-1, (Secretariat Branch), dated 11.12.2000.

Sub: Medical Charges - Reimbursement of medical expenses - Ceiling limit - Orders issued - Clarification - Issued.

Ref: (Per.) B.P. (FB) No.75 (SB) dated 5.10.2000.

In the Board's Proceedings cited, orders have been issued fixing annual ceiling limit for medical expenses at 60% on the revised pay, which came into effect from 1.12.1996.

2. Clarification has been requested on the date for fixing of ceiling limit of reimbursement of medical expenses.

3. The following clarifications in regard to the date for fixing of annual ceiling limit is issued:-
- (i) The revised annual ceiling limit on reimbursement of medical expenses at 60% of basic pay only should be calculated with reference to the basic pay in the revised scale of pay as on 1.9.1998 or as on the date of option falling thereafter and not with reference to basic pay of the employees concerned drawn from time to time.
 - (ii) Dearness Allowance should not be taken into account for calculation.
 - (iii) The annual ceiling limit for reimbursement has to be calculated for the financial year only.

(By Order of the Board)

G. Gnanaselvam,
Secretary.

* * *

Allowances - Hydro and Wind Farm Allowance for persons working in Hydro Stations and Wind Farm Stations - Condition for payment - Relaxation - Orders - Issued.

(Permanent) B.P. (F.B.) No.100

(Secretariat Branch)

Dated 13th December 2000.
Karthigai 28, Vikrama,
Thiruvalluvar Aandu 2031.

Read :

1. (Per.) B.P. (F.B.) No.162 (Tech.Br.) dated 22.6.92.
2. (Per.) B.P. (F.B.) No.172 (Tech.Br.) dated 4.7.92.
3. Bd.'s Memo.No.34646/N2/93-3, dated 23.8.93.
4. (Per.) B.P. (FB) No.31 (SB), dated 10.6.94.
5. (Per.) B.P. (FB) No.83 (SB), dated 23.11.95.

Proceedings:-

In partial modification of the orders issued in para-4 of the Board's Proceedings fourth cited, the Tamil Nadu Electricity Board hereby directs that the Hydro/Wind Farm Allowance shall be paid to the eligible employees in the Hydro and Wind Farm Stations from the date of appointment/joining in the respective station. In view of the above modification, the condition of one year stay for grant of Hydro/Wind Farm Allowance shall be dispensed with.

2. The orders issued in para-1 above shall take effect from 1.12.2000.

(By Order of the Board)

G. Gnanaselvam,
Secretary.

Specification - T.925 - Supply of 1450 KMs. 'ZEBRA' ACSR Conductor - Proposal for placing orders - Approved.

Routine B.P. (F.B.) No.12

(Technical Branch)

Dated 14.12.2000.
Karthigai 29, Vikkrama Aandu,
Thiruvalluvar Aandu 2031.

Read :

1. Board Approval communicated vide Memo.No.88000/A10/A101/2000-8, dt.08.11.2000.

Proceedings :

The Tamil Nadu Electricity Board approves the proposal of Chief Engineer/Transmission to place orders for procurement of 1450 KMs. of ZEBRA ACSR Conductors at a total cost of Rs.22,01,54,502.00 on the following firms as approved by the Board, against the Tender Specification bearing No.T.925 in its 837th meeting held on 07.11.2000 (Item 13) as below :

(Unit FOR (D) Cost excl. of S.T. /KM. - Rs.1,46,040/-, Sales Tax to be paid extra at actuals)

1.	M/s. Deepak Cables (India) Ltd., Bangalore	975 KMs.	(L1)
2.	M/s. S.L. Jain Conductors P. Ltd., Bijainagar	80 KMs.	(L2)
3.	M/s. Goutam Conductors P. Ltd., Chennai	100 KMs.	(L3)
4.	M/s. S.V.R. Cables P. Ltd., Rajam (AP)	145 KMs.	(L4)
5.	M/s. Omega Cables P. Ltd., Chennai	150 KMs.	(L5)

	Total	1450 Kms.	-----

(By Order of Board)

A.S. Kandasamy,
Chief Engineer/Transmission.

Specification - T.926 - Supply of 1250 KMs. 'PANTHER' ACSR Conductor - Proposal for placing orders - Approved.

Routine B.P. (F.B.) No.13

(Technical Branch)

Dated 14.12.2000.
Karthigai 29, Vikkrama Aandu,
Thiruvalluvar Aandu 2031.

Read :

1. Board Approval communicated vide Memo.No.88000/A10/A101/2000-8, dt.08.11.2000.

Proceedings :

The Tamil Nadu Electricity Board approves the proposal of Chief Engineer/Transmission to place orders for procurement of 1250 KMs. of 'PANTHER' ACSR Conductors at a total cost of Rs.10,23,06,000.00 on the following firms as approved by the Board, against the Tender Specification bearing No.T.926 in its 837th meeting held on 07.11.2000 (Item 12) as below :

(Unit FOR (D) Cost excl. of S.T. /KM. - Rs.78,720/-, Sales Tax to be paid extra at actuals)

1.	M/s. Deepak Cables (India) Ltd., Bangalore	750 KMs.	(L1)
2.	M/s. Ramesh Conductors P. Ltd., Metturdam	250 Kms.	(L2)
3.	M/s. Jayashree Cables & Conductors P. Ltd., Mettur Dam	250 Kms.	(L2)

	Total	1250 Kms.	

(By Order of Board)

A.S. Kandasamy,
Chief Engineer/Transmission.

Memo.No.5534/DT&D/N21/N211/2000-1, (Technical Branch), dt.18.12.2000.

Sub: Training - Lecture classes conducted by Board's Engineers at Thermal Power Station - Sanction of honorarium and supply of Snacks, etc. - Proposal Approved - Amendment Orders - Issued.

Ref: 1. (Per.) B.P. (Ch.) No.220, (Techl. Branch), dt.10.10.1991.
2. Lr.No.SE/O/TTPS/EE/Trg.F.10/D.1267/2000, dt.11.7.2000.

In partial modification of B.P. under ref. 1st cited, the following amendment is issued to (Per.) B.P. (Ch.) No.220 (Techl. Br.), dt.10.10.1991 shall be read as follows:

AMENDMENT

Para 2 of (1) payment of honorarium to the Senior Engineers who take classes at T.T.P.S. for a total amount not exceeding Rs.9000/- per annum as per existing norms of Rs.120/- per hour vide (Per.) B.P. (Ch.) No.262 (Techl.Br.) dt.14.8.1996.

Para 2 of (2) supply of snacks, Tea/Coffee to the participants and Lectures taking classes during Lecture classes not exceeding the amount fo Rs.20,000/- per annum at the rate of Rs.10/- per head per day vide (Per.) B.P. (Ch.) No.60 (Techl.Br.), dt.1.3.95.

2. Other conditions stipulated in the B.P. is unaltered.

(By Order of the Chairman)

K. Sengottuvelu,
Chief Engineer/Research & Development.

Training - Enhancement of honorarium amount - Orders - Issued.

(Per.) B.P. (Ch.) No.250

(Technical Branch)

Dated 22.12.2000.

Vikrama, Marghazhi 7,
Thiruvalluvar Aandu 2031.

Read: (Per.) B.P. (Ch.) No.262 (Techl. Branch), dt.14.8.1996.

Proceedings :

The rate for payment of honorarium at Rs.120/- per hour for delivering guest lectures at Staff Training College, Training Institutes, Technical Training Centres and Line Inspector Training Centres of Tamil Nadu Electricity Board was issued under B.P. cited.

2. The rate of honorarium paid was considered to be very low and not adequate even to meet the conveyance charges of the guest faculty as the above rate was fixed about 4 years ago and due to escalation of prices, it was suggested to enhance the rate of honorarium for guest lectures from Rs.120/- per hour to

Rs.200/- per hour in respect of Board officials and Rs.300/- per hour in respect of guest faculties drawn from the outside the Board.

3. After careful examination of the above proposal, T.N.E.B. approves for enhancement of honorarium from Rs.120/- per hour to Rs.200/- per hour in respect of Board Officials and Rs.300/- per hour in respect of guest faculties drawn from outside the Board.

4. All other terms and conditions laid down in the B.P. cited shall remain unaltered.

(By Order of the Chairman)

M. Chockalingam,
Chief Engineer/Personnel.

Memorandum No.109340/A17/A171/2000-1, (Secretariat Branch), dated 22.12.2000.

Sub: Tamil Nadu Electricity Board Health Fund Scheme - Applications seeking financial assistance under Health Fund Scheme - Delay in sending them - Fixing responsibility - Instructions - Issued.

Ref: 1. (Per.) B.P. (FB) No.41 (SB), dated 29.5.1997.
2. Memo. (Per.) No.66262/N1/97-1, dated 18.9.1997.

In the Board Proceedings first cited, orders were issued constituting two Committees (Committee I for Class I Officers and Committee II for other than Class I Officers) to consider and recommend the cases of the employees as the case may be, seeking financial assistance to undergo for having undergone specialised surgery/treatment in the accredited institutions.

2. In the Board's Memorandum second cited, clear instructions have been issued prescribing the procedure for claiming and settlement of claims for financial assistance under Health Fund Scheme.

3. It is also seen that most of the applications forwarded to the Secretary/Tamil Nadu Electricity Board by the Chief Engineer/Superintending Engineer concerned are in incomplete shape, as they are forwarded without proper scrutiny. This leads to unnecessary correspondance with Chief Engineer/Superintending Engineer concerned besides resulting in in-ordinate delay in the process and sanction of the claims causing hardship to the employees. The Health Fund Committee felt that this inordinate delay in forwarding the applications by the Chief Engineer/Superintending Engineer should be eliminated in future.

4. The following instructions are therefore, issued for strict compliance:

- (i) The employees who seek financial assistance under Health Fund Scheme should submit the application with all details within three months after the surgery/treatment is over.
- (ii) The claim proposal would be complete only if all the columns in the application and checklist are filled in completely, without any omission and submitted with supporting bills and vouchers in original. This should be ensured both by the claimant employees and the forwarding authorities.
- (iii) All the Chief Engineers/Superintending Engineers should adhere to the guidelines and instructions issued by the Board scrupulously and forward the medical claims of this employees in complete shape to the Secretary/Tamil Nadu Electricity Board with specific recommendation and with a certificate to the effect that the application has been scrutinised strictly in accordance with the rules, guidelines and procedures prescribed and that all the relevant bills, vouchers, certificates etc. required are enclosed in original.
- (iv) After the receipt of applications from the Chief Engineer/Superintending Engineer concerned, the applications should be immediately verified in the Board Office Secretariat Branch and if there is any discrepancy despite the instruction, this should be communicated to the Chief Engineer/Superintending Engineer concerned for rectification of defects. A copy of this communication would also be marked to the individual employee, so that the employee can assist the Office by furnishing the required information/details etc. without loss of time.

- (v) Receipt of any incomplete application will be viewed seriously and responsibility will be fixed on the Chief Engineer/Superintending Engineer concerned.
- (vi) The Chief Engineer/Superintending Engineer should furnish the date of birth, date of retirement (either superannuation/voluntary) etc. of the employee while forwarding the claim proposal.
5. Receipt of the Memorandum shall be acknowledged.

G. Gnanaselvam,
Secretary.

* * *

Training - Generation wing - Intensive three months Training to newly joining Asst. Engineers - Approved.

(Per.) B.P. (Ch.) No.256

(Technical Branch)

Dated 26.12.2000.

Vikrama Aandu, Margazhi 11,
Thiruvalluvar Aandu 2031.

Read:

Chairman Note No.90/CHO/PS/2000, dt.16.12.2000.

Proceedings :

Chairman has instructed to conduct 3 months intensive training to the newly joining 100 Assistant Engineers in Generation Wing, concentrating 40% on Technical and 60% on non technical subjects like, Administration terms & condition of supply, consumer satisfaction, grievance handling, public relation Management, Rules & Regulations, D.P., Trade unions, Drafting, Finance & Accounting, Computerisation, etc. The syllabus has also been designed in that line and to suit to the requirement of newly joining Engineers on 27.12.2000. The total strength has been grouped into four batches, each consisting of 25 trainees under the co-ordination guidance and control of the Deputy Directors at Chennai, Kuthiraikkalmedu, Madurai (TTPS) and Ennore. every batch will undergo training in two Thermal Power Houses and One Hydro Power House for a total period of 28 days and non technical subjects for 42 working days of 8 hours a day.

2. After careful consideration, approval is hereby accorded to conduct the above training programmes at various training institutions of the Board and to incur a total expenditure of Rs.5,60,600/- for all batches as shown below:

Sl. No. (1)	Description (2)	Qty. (3)	Rate/per Rs. p. (4)	Amount Rs. p. (5)
1.	Course Material for Hydro-subjects	110	100	11,000/-
2.	Course Material for Thermal subjects	110	100	11,000/-
3.	Course material for Adm. & Accounts matters	110	180	19,800/-
4.	Computer Education			
	(i) Course material for 25 Trainees at Rs.50/- each	1250 x 4 batches =		Rs.5,000/-
	(ii) Course conducting for only : (Excepting the provision of PC) at Rs:50 per person per day for : 6250 x 4 batches 25 persons for 5 days (Rs. 50 x 25 x 5 days)			25,000/-

(1)	(2)	(3)	(4)	(5)
5.	Honorarium for Guest lecture	-	-	
	i) For External Faculties (Rs.300x200hrx4 batches)			2,40,000/-
	ii) For Internal Faculties (Rs.200x70hrx4 batches)			56,000/-
6.	Writing pad, ball pen, Folder, Certificate etc. at Rs.50/- per head (50x100 persons)	-	-	5,000/-
7.	Field work book at Rs.50/- each for 100 trainees	-	-	5,000/-
8.	Fire fighting expenses @ Rs.600/- X 4 batches	-	-	2,400/-
9.	Hall Rent at Rs.1000/- per day for 40 days (for TTI/ETPS Batch)	-	-	40,000/-
10.	Hall Rent at Rs.1000/- per day for 7 days (for STC/Chennai towards Kuthiraikkalmedu Batch)	-	-	7,000/-
11.	Tea, Coffee & snacks at Rs.15/- per head per day for 25 trainees + 5 faculty members (Rs.15x30x71 days) x 4 batches	-	-	1,27,800/-

				5,55,000/-
12.	Contingencies			5,600/-

		Total		5,60,600/-

3. The allocation of funds in respect of four training centres is shown in Annexure enclosed.

4. (i) The Personal Assistant/Unit-II/Technical Branch/Chennai is authorised to arrange to make payment in respect of DD/STC by opening a temporary advance in the name of an officer nominated by the DD/STC as and when claimed by the Deputy Director/Staff Training College.

(ii) The Superintending Engineer/Generation/Erode is authorised to arrange to make payment in respect of Deputy Director/Hydro Training Institute/Kuthiraikkalmedu by opening a temporary advance in the name of an officer nominated by DD/HTI/KKMedu as & when claimed by DD/HTI/Kuthiraikkalmedu.

(iii) The Superintending Engineer/P&A/TTPS is authorised to arrange to make payment in respect of training at TTPS by DD/Tr&SSTI/Madurai, by opening a temporary advance in the name of Exe.Engineer/Training/TTPS or in the name of an officer nominated by EE/Training/TTPS as and when claimed by him.

(iv) The Superintending Engineer/P&A/ETPS is authorised to arrange to make payment in respect of DD/TTI/Ennore by opening a temporary advance in the name of an officer nominated by the DD/TTI/Ennore.

5. The expenditure to debit to "TNEB - Funds - Revenue Expenses - Training expenses - A/c No.76.54 - Training to Board's Personnel".

(By Order of the Chairman)

K. Sengottuvelu,
Chief Engineer/Research & Development.

Encl.:

ANNEXURE
ALLOCATION (GENERATION WING)

Sl. No.	Description	DD/STC Rs.	DD/KKMEDU Rs.	TTPS Rs.	DD/ETPS Rs.
1.	Course Material for Hydro-Subjects	--	11,000	--	--
2.	Course material for Thermal Subjects	--	--	--	11,000
3.	Course material for Adm. & Accounts	19,800	--	--	--
4.	Computer Education				
	(i) Course material for 25 Trainees at Rs.50/- each: 1250x4 batches	1,250	1,250	1,250	1,250
	(ii) Course conducting fee only (Excepting the provision of PC) at Rs.50 per person per day for 6250x4 batches 25 persons for 5 days (Rs.50x25x5 days)	6,250	6,250	6,250	6,250
5.	Honorarium for Guest lecture				
	i) For External Faculties (Rs.300x200hrx4batches)	75,750	44,250	60,000	60,000
	ii) For Internal Faculties (Rs.200x70hrx4 batches)	14,000	14,000	14,000	14,000
6.	Writing pad, ball pen, Folder Certificate etc at Rs.50/- per head (50x100 persons)	1,250	1,250	1,250	1,250
7.	Field work book at Rs.50/- each for 100 trainees (Rs.50x100)	--	--	5,000	--
8.	Fire fighting expenses @ Rs.600/- x 4 batches	600	600	600	600
9.	Hall Rent at Rs.1000/- per day for 40 days (for TTI/ETPS Batch)	--	--	--	40,000
10.	Hall Rent at Rs.1000/- per day for 7 days (for STC/Chennai towards Kuthiraikkalmedu Batch)	7,000	-	-	-
11.	Tea, Coffee & Snacks at Rs.15/- per head per day for 25 trainees + 5 faculty members (Rs.15x30x71 days) x 4 batches	31,500	40,050	27,900	28,350
		1,57,400	1,18,650	1,16,250	1,62,700
12.	Contingencies	1,600	1,200	1,200	1,600
		1,59,000	1,19,850	1,17,450	1,64,300

Grand Total : Rs.5,60,600/-

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Training - Other than Generation wing - Intensive three months Training to newly joining Asst.Engineers - Approved.

(Per.) B.P. (Ch.) No.257

(Technical Branch)

Dated 26.12.2000.

Vikrama Aandu, Margazhi 11,
Thiruvalluvar Aandu 2031.

Read:

Chairman Note No.90/CHO/PS/2000, dt.16.12.2000.

Proceedings :-

Chairman has instructed to conduct 3 months intensive training to the newly joining 100 Assistant Engineers in other than Generation Wing, concentrating 40% on Technical and 60% on non technical subjects like, Administration, terms & condition of supply, consumer satisfaction, grievance handling, public relation Management, Rules & Regulations, D.P., Trade unions, Drafting, Finance & Accounting, Computerisation, etc. The syllabus has also been designed in that line and to suit to the requirement of newly joining Engineers. The total strength has been grouped into four batches, each consisting of 25 trainees under the co-ordination guidance and control of the Deputy Directors at Chennai, and Madurai. Every batch will undergo training on technical subjects for a total period of 28 days and non technical subjects for 42 working days of 8 hours a day.

2. After careful consideration, approval is hereby accorded to conduct the above training programme at various training institutions of the Board, and to incur a total expenditure of Rs.5,51,300/- for all batches as shown below:

Sl. No.	Description	Qty.	Rate/per Rs. p.	Amount Rs. p.
(1)	(2)	(3)	(4)	(5)
1.	Course Material for Technical subjects	110	180	19,800/-
2.	Course Material for Adm. & Accounts matter	110	180	19,800/-
3.	Honorarium for Guest lecture			
	i) For External Faculties (Rs.300x200Hrx4 batches)			2,40,000/-
	ii) For Internal Faculties (Rs.200x70hr/4 batches)			56,000/-
4.	Computer education			
	(i) Course material for 25 Trainees at Rs.50/- each 1250 x 4 batches =			Rs.5,000/-
	(ii) Course conducting fee only : (Excepting the provision of PC) at Rs.50 per person per day for 25 persons for 5 days (Rs.50 x 25 x 5 days) 6250x4 batches			25,000/-
5.	Tea/Coffee & snacks at Rs.15 per Head per day for 25 trainees + 5 faculty members (Rs.15x30x71 days) 4 batches		-	1,27,800/-
6.	Writing pad, ball pen, Folder, Certificate etc. at Rs.50/- per head (50x100 Trainees)		-	5,000/-
7.	Field work book at Rs.50/- each for 100 trainees(Rs.50x100)		-	5,000/-
8.	Fire fighting expenses @ Rs.600/- x 4 batches		-	2,400/-

(1)	(2)	(3)	(4)	(5)
9.	Hall Rent at Rs.1000/- per day for 40 days (for 1 batch to be conducted by DD/Madurai)	-	-	40,000/-
				5,45,800/-
10.	Contingencies			5,500/-
			Total	5,51,300/-

3. The allocation of funds in respect of Deputy Directors/Staff Training College, Transmission & Sub Station Training Institute & AEE/LITC/Tanjore is shown in the annexure enclosed.

4. (i) The Personal Assistant/Unit-II/Tech. Branch/Chennai is authorised to arrange to make payment to DD/STC by opening a temporary advance in the name of an officer nominated by the DD/STC as and when claimed by him.

(ii) The SE/Madurai EDC is authorised to arrange to make payment to DD/Tr & Sub Station Training Institute by opening a temporary advance in the names of Officers nominated by the DD/Tr&SSTI/Madurai as & when claimed by them.

(iii) The SE/Tanjore EDC is authorised to arrange to make payment by opening a temporary advance in the name of AEE/LITC/Tanjore as & when claimed by him.

5. The expenditure to debitable to TNEB-Funds-revenue expenses-Training expenses-A/c No.76.154 -Training to Board's Personnel

(By Order of the Chairman)

Encl: Annexure.

K. Sengottuvelu,
Chief Engineer/Research & Development.

ANNEXURE
ALLOCATION OF FUNDS (OTHER THAN GENERATION)

Sl. No.	Description	DD/STC for 1 batch (3) Rs.	DD/MDU for 2 batches (4) Rs.	THANJAVUR for 1 batch (5) Rs.
1.	Course Material for Technical subjects	--	19,800/-	--
2.	Course Material for Adm & Accounts matter.	19,800	--	--
3.	Honorarium for Guest lecture			
	i) For extenal faculties (Rs.300x200hrx4)	60,000	1,20,000	60,000
	ii) For Internal Faculties Rs.(200x70hrx4batches)	14,000	28,000	14,000

(1)	(2)	(3)	(4)	(5)
4.	Computer education i) Course material for 25 trainees @ Rs.50/- each 1250x4 batches.	1,250	2,500	1,250
	ii) Course conducting fee only (Excepting the provision of PC) at Rs.50 per person per day for 25 persons for 5 days (Rs.50x24x5 days)	6,250	12,500	6,250
5.	Tea/Coffee & snacks at Rs.15 per Head per day for 25 trainees + 5 faculty members (Rs.15x30x71 day)x4 batches	31,950	63,900	31,950
6.	Writing pad, Ball pen, Folder Certificate etc. at Rs.50/- per head (Rs.50x100 Trainees)	1,250	2,500	1,250
7.	Field work book at Rs.50/- each for 100 trainees (Rs.50x100)	—	5,000	—
8.	Fire Fighting Expenses at Rs.600/- x 4 batches	600	1,200	600
9.	Hall rent at Rs.1000/- per day for 40 days (for 1 batch to be conducted by DD/Madurai)	--	40,000	--
		1,35,100	2,95,400	1,15,300
10.	Contingencies	1,350	3,000	1,150
		1,36,450	2,98,400	1,16,450
	Total: Rs.5,51,300/-			

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Non Conventional Energy Sources - Meter reading works in the wind farm services located in isolated locations - Levying of service charges for monthly reading works - Approval - Reg.

Permanent B.P (FB) No:205

(Technical Branch)

Dated:26-12-2000,
11, Margazhi, Vikrama,
Thiruvalluvar Aandu-2031

READ: Minutes of 839th meeting of TNEB held on 18-12-2000 item No:7.

Proceedings:-

In Tamilnadu, there are nearly 1073 wind farm H.T.Service connections connected to TNEB grid in Coimbatore and Tirunelveli areas. Unlike in the case of conventional H.T.Services, which are situated in inhabited villages & Towns connected through easily accessible approach roads, the wind mill H.T.Services are situated in isolated areas without proper approach roads.

Since the wind mill services are concentrated in a few distribution sections, the Board officers have to take massive steps for taking the meter readings using Board's vehicles in addition to their routine works. There is an extra expenditure involved by way of salary, TA bills and cost of fuels etc.

In order to compensate the above extra expenditure involved in monthly reading of wind mill services TNEB after careful consideration, has ordered as follows:

- i) An amount of Rs.300/- per wind farm service per month may be collected from the wind farm developers towards monthly meter reading charges.
- ii) The above charges will be collected every month by deducting the same from the bill towards the sale proceeds of wind power of the developers when the power is sold to TNEB directly.
- iii) In the case of developers who wheel an avail the power in their own/subsidiary industrial units, the above charges will be included in the monthly C.C. bills of the services wherein the energy is utilised.
- iv) This order may be given effect to from the meter reading for the month of January 2001.

In this connection the following instructions are issued.

i) If there is 'nil' generation for consecutive three months period, steps should be taken to recover the metering charges directly by issuing proper notices to the developers as is being done for other conventional H.T.Services.

ii) The Superintending Engineer/EDCs, with whom the wind farm developers have executed the Power Purchase Agreements for their wind mill services, are instructed to inform the above to all the wind farm developers immediately and confirm the above to CE/NCES.

(By Order of the Board)

A.U. Thiruinban,
Chief Engineer/NCES
Chennai-2

Letter No.X/CFC/Rev/AO/CB/E4/Due dt. for 12/2000.Assmt.2000, (Accounts Branch) dt.22/30.12.2000.

Sub: Electricity - Payment of Low Tension Current Consumption Charges
for the assessments made during 12/2000 - Extension of due date -
Ordered - Reg.

The due date for payment of Current Consumption Charges for Low Tension Consumers for the assessments made during 12/2000 is 15.1.2001. There are four consecutive holidays from 13.1.2001 to 16.1.2001 in connection with Second Saturday, Sunday and Pongal holidays. Therefore the last date for payment of Low Tension Current consumption charges for the assessments made during 12/2000 is 17.1.2001 as per terms and conditions of supply of Electricity.

In view of the four consecutive holidays there will be heavy rush in collection centres on 17.1.2001. Therefore the L.T consumer shall be permitted to pay the current consumption charges for their service connections upto and inclusive of 18.1.2001 without interest on delayed payment. The date of disconnection for non payment of current consumption charges for the assessments made during 12/2000 for Low Tension services connection shall be 19.1.2001.

S. Nagalsamy,
Accounts Member.

Circular Memo.No.CFC/GI/DFC/W/AAO/W/D 392/2000, (Accounts Branch) dt.30.12.2000.

Sub: Issue of Form XVII at Headquarters to the supplier for Headquarters P.Os instead of at all consignee Circles for the same P.O./ Supplier-Instructions - Issued.

Ref: This Office Cir.Memo.No.CFC/GI/DFC/W/AAO/W/D 39/2000/D 1098 dt.5.8.2000.

Due to insufficient supply of Form XVII, the Commercial Tax Department has requested to minimise the usage of Form XVII by the Board and to issue one Form XVII per Supplier/per annum (i.e. financial year) irrespective of the No. of P.Os issued to one and the same supplier.

The P.Os are placed by the Chief Engineers at Headquarters and Regions and the suppliers are supplying the goods to the different Circles. Hence, the Superintending Engineers of various Circles are issuing Form XVII to the same supplier for the same P.O. Thus, many a number of Forms XVII are being issued to the one and the same supplier for the same P.O.

Hence, in order to reduce the usage of Form XVII and to eliminate the wastage of Form XVII, it is hereby ordered that Forms XVII shall be issued by the Chief Engineers who place orders at the rate of one per supplier/per annum/irrespective of the number of P.Os placed on the same supplier during the month of March & April each year, as in the case of 'C' Forms, instead of each consignee circle issuing Form XVII for the same P.O. and for the same supplier. This will minimise the utilisation of Form XVII and also reduce the expenditure on that account, eliminating the wastage of Form XVII.

All the Headquarters Chief Engineers are requested to draw the Form XVII from the Deputy Financial Controller/Works of the Accounts Branch for their annual requirements on proper requisition.

These instructions shall take immediate effect.

The Superintending Engineers of the Circles are instructed to utilise the available Form XVII for their L.P.Os. only and to send their indents for Form XVII only for their actual requirement based on their LPOs.

Receipt of the Circular instructions should be acknowledged to the Deputy Financial Controller/Works.

S. Nagalsamy,
Accounts Member.

PART - IV Technical

Circular Memo.No.SE/IEMC/EE3/AEE1/F.Instruction/D.648/2000, (Technical Branch), dated 25.9.2000.

Sub: Electricity - LT service under Tariff IIIA, IIIB, IIIC - Procedure for effecting supply - Reg.

Ref: CE/D/CBE/AEE/GL/FGL/PR/2046/2000, dt.5.9.2000.

In continuation of the simplified procedure for effecting L.T. Industrial services, Chief Engineer/ Distribution/Coimbatore has suggested that all single phase service connection applications under low tension upto 4 KW under Tariff IIIA, IIIB, IIIC (LT Industrial) may be received by Assistant Engineer/ Electrical, registered and treated on par with one day service scheme to avoid delay and to augment Board's revenue.

The suggestion has been examined and approval is hereby accorded to effect L.T. Industrial service connection upto 4 KW in single phase under LT Tariff IIIA, IIIB, IIIC ensuring that the capacity of each motor does not exceed 1.5 H.P. This is as per I.E. Rules and has to be strictly adhered to. The L.T. Industrial applications upto 4 KW shall be received by Section Heads registered and effected supply as in the case of "one day service connection".

The above industrial service connections shall be provided only with high quality meters.

R. Poomalingam,
Chairman.

(U.O. Note No.SE/IEMC/EE.3/AEE.1/F.Inst./805/2K, (T. B.), dated 30.11.2000/5.12.2000.)

* * *

Electricity - Hut Service Connection - Violation in hut services - Conversion to metered services - Instructions issued - Regarding.

Permanent B.P. (Ch.) No.232

(Technical Branch)

Dated 7.12.2000.

Karthigai 22, Vikkrama,
Thiruvalluvar Aandu 2031.

Read:

Ref: Permanent B.P. (F.B.) No.243, dt.20.12.1999.

Proceedings:

In the B.P. cited, orders have been issued that if any consumer of HUT Service connection is found to indulge in violation, such as connection of unauthorised additional loads (more than 1 x 40 W bulb) and unauthorised extension.

- (a) the consumer shall be given one month notice to avail the service connection under Tariff-1A (Domestic purpose) by paying the meter caution deposit of Rs.700/- and current consumption deposit of Rs.200/- in easy instalments.
- (b) the consumer shall be insisted to provide the meter Board, cut outs etc. and be ready with the wiring for effecting service connection under Tariff-IA.
- (c) if not agreeing to the above condition the hut service connection shall be dismantled permanently.

2. It is brought to the notice of the Chairman that some of the hut service consumers had wilfully indulged in violation so as to avail the metered supply because of easy instalments concession. Some of the hut service owners have requested and come forward to avail metered supply scheme voluntarily even though there is no violation in their hut services.

If the benefit of the scheme, i.e. allowing them to make payment of meter caution deposit and current consumption deposit in instalments as per Clause 1 (b) of B.P. (F.B.) No.243, dt.24.12.99 is extended to all the existing willing hut service consumers, even if there is no violations the Board is benefited.

3. After careful consideration, it is ordered that if the hut strictly conforms to the living place not exceeding 200 sq.ft. with mud walls and thatched roof, all the willing consumers of existing hut services irrespective of the existence of violation or not may be considered under the scheme ordered in Per.B.P. (F.B.) No.243, dt.20.12.99 under para 1 (b) & (c) and regular domestic service effected.

R. Poornalingam,
Chairman.

* * *

Memo.No.CE/TR/ET/A2/F.TECH.CIRCULAR/D.547/2000, (Technical Branch), dated 08/11.12.2000.

Sub: Elec. - Transformer Oil - Reclamation Plants - Reg.

An article on transformer oil reclamation plant at Erode by Er.**A.S.KANDASAMY** the then EE/MRT and Special Maintenance/Erode now **Chief Engineer/Transmission and IEMC** published in "INDIA POWER" is enclosed herewith for guidance in establishing the plant at various regional head quarters and on running the plant efficiently. The Chief Engineers/Distribution have already been instructed to erect one such plant in each Distribution Regional headquarters based on the performance of the pilot plant at Erode. The chief Engineer/Distribution/Coimbatore has also commissioned one such plant at Coimbatore.

During the Monday Meeting with the Head Quarters Chief Engineers, the Chairman has remarked that though approval is given long back, the oil reclamation plants are yet to be commissioned in the following regions :

1. Chennai
2. Madurai
3. Trichy
4. Thirunelveli
5. Vellore
6. Villupuram

Hence the Chief Engineers/Distribution of the above regions are requested to put up the plant and sent a report in compliance without further delay.

C. Andrew Tennyson Abraham,
Member (Distribution).

Encl.: One Booklet

**TRANSFORMER OIL RECLAMATION PLANT -
A.S.KANDASWAMY**

ABSTRACT:

The first unique plant for reclamation of used/Unserviceable Transformer oil was established in Tamilnadu Electricity Board Distribution transformer repair bay at Erode, on 24.12.98. The plant reclaims the used/unserviceable Transformer oil based on the Know-how developed by the Central Power Research Institute/Bangalore.

The cost of reclamation is about Rs.4 per litre. The reclamation of used/unserviceable Transformer oil brings savings in Foreign exchange Reserve as well as savings to the TNEB (Tamil Nadu Electricity Board) and the problem of disposal of contaminated unserviceable oil is also solved. The use of reclaimed oil in place of reconditioned oil in distribution transformers incidentally increases the life of the transformer by averting pre-mature failure due to Low Insulation Resistance Value (IR Value).

INSULATING OIL: SOURCE, PROPERTIES AND CHARACTERISTICS :

Insulating oil is obtained, while refining petroleum crude (Petro-means rock, oleum means oil-Petroleum means rock oil) by fractional distillation process. Insulating oil is having two properties, one is a good insulant and the other is a coolant. These two properties are essentially required for the oils used in Power/Auto/Distribution transformers. The condition of the oil is judged from a number of characteristics and some of them are interdependent. These characteristics should possess either maximum or minimum permissible limits as the case may be, for satisfactory use of oil in service as per IS 1866.

DETERIORATION OF OIL:

Transformer oil, while in service contaminates. When the transformer breaths inside, while the oil contracts in volume, atmospheric air with moisture and oxygen and other gases enter inside the transformer. Though the silicagel in the breather absorbs the moisture to certain extent, a certain amount of moisture still goes in and is added over a period. The oil also oxidises with the oxygen available in the atmospheric air entering in, at very high temperature of the oil, due to loading of the transformer at its rated capacity and/or at overloaded condition either intermittently or continuously. The oxidation of oil produces contaminants such as water (left soluble in oil during refining itself) sludges, dissolved gases and other polar contaminants such as acids. The contaminants viz. Moisture, water, sludge, dissolved gases and acids, affect the various characteristics of the oil and consequently make the oil sufficiently deteriorated in the insulating and cooling properties and the oil becomes unserviceable.

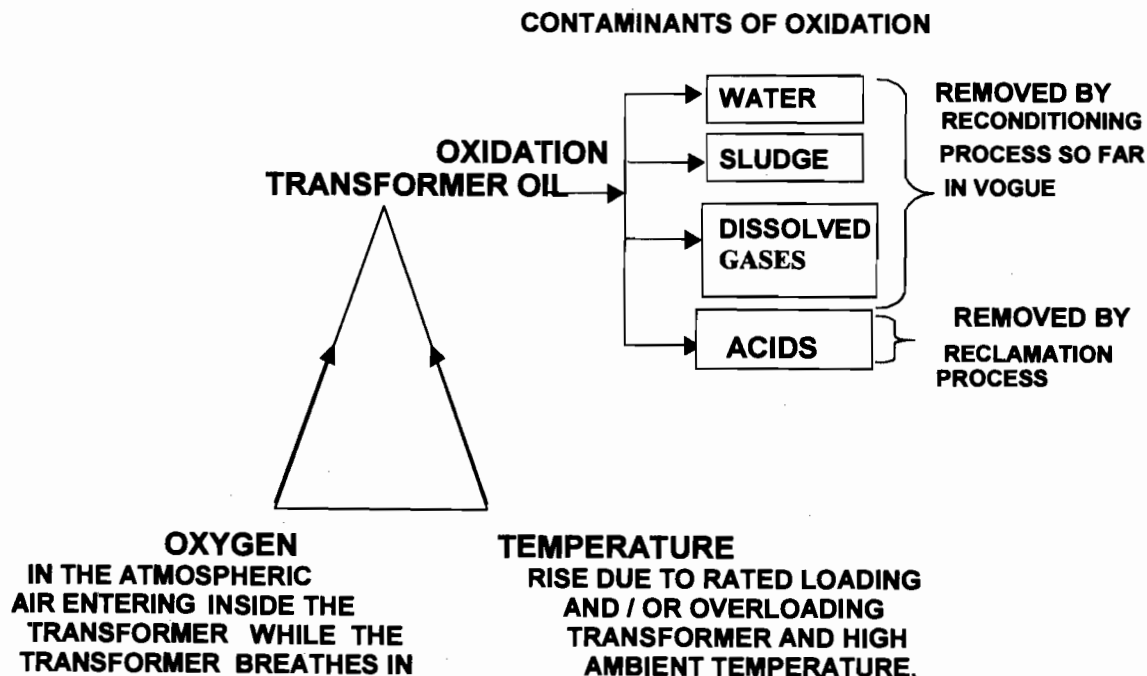
OXIDATION AND ITS CONTAMINANTS :

The oxidation of oil can be well understood through a fire triangle, as the oxidation of oil is analogous to breakdown of fire.

RECONDITIONING PROCESS :

When oil in service in transformer/circuit breakers contaminates and when the oil deteriorates to an unsatisfactory level, oil is released. The released oil is subjected to reconditioning process (through Blotter press and then through stream line filter). During the reconditioning process, contaminants of water, moisture, sludge and dissolved gases are removed to satisfactory levels. Whereas polar contaminants such as acids are left as it is. When the used oil is again and again reused after reconditioning, the acid level goes on increasing without any check and the resistivity. Inter Facial Tension and Tan-Delta of oil also reach inadmissible values for further use.

A FIRE TRIANGLE



HARMFULNESS OF USING THESE OILS IN TRANSFORMERS :

Field Study I :

The failed distribution transformers after repair i.e. after replacing a portion of the HV coils which were failed or replacing the entire HV coils. The core and the coil assembly was dried out in an electric oven. Then Insulation resistance (IR) of the core and coil assembly in air at room temperature was measured with the megger and the IR values are more than 200 M.ohms, the maximum scale reading available in the megger. The IR values measurement at room temperature was made after placing the core and coil assembly inside the tank and after filling the tank with the reconditioned oil. The IR values are below 50 M.ohms. The reconditioned oil was then replaced with new oil and the IR values are again above 200 M.ohms. The reason for Low IR value with reconditioned oil was due to Low resistivity of the reconditioned oil.

Field Study II :

During the year 1990, based on the method furnished vide review No.2 of the Central Board Irrigation and Power (CBIP) New Delhi, the reconditioned oil was treated with fullers earth. The treatment is to just pour the earth in the oil and stir the mixture for sometime and allow it to settle and decant the oil above the earth and filter it. The treated oil was used for filling the repaired distribution transformer as a trial and IR value measurements showed values above 200 M.ohms. Further Oil samples of the reconditioned oil and oil samples of reconditioned oil treated with fullers earth were subjected to test and the test results revealed that the oil characteristics in respect of acidity, resistivity, IFT, and Tan-Delta have improved to very great extent.

FIELD STUDY III :

In six (110/33 KV - 2 Nos. 110/22 KV - 2 Nos., 110/11 KV - 2 Nos.) 16 MVA Power Transformers, the IR value measurements have shown very poor inadmissible values and the test results on the oil samples have shown very poor Resistivity and IFT. It was suggested by the manufacturer to circulate the oil in these transformers for improving the Oil characteristics thereby IR values will be improved to the satisfactory limits. Accordingly oil circulation in three of the Six transformers was carried out. But the IR values did not show any appreciable increase. Then it was decided to replace the oil with New Oil. After replacing the oil, IR values reached very near to that of Precommissioning values. This has revealed that unless the Low resistivity and IFT of the Oil are improved by some means, the IR Values could not be improved.

ROLE OF CPRI BANGALORE :

The only option to dispose the unserviceable oil with high acidity and low resistivity is to auction. This could not also be done due to court stay in view of pollution problem. At this stage the know-how developed by the CPRI, Bangalore, after a long research in reclaiming the used/unserviceable oil was thought of and the know-how was obtained from CPRI, Bangalore after paying one time royalty amount of Rs.5000.

RECLAMATION PROCESS DEVELOPED BY CPRI, BANGALORE :

The used/unserviceable oil is treated with the fullers earth now indigenously available to remove polar contaminants like acids and then filtered. Di-Butyl P.Cresol (DBPC) is then thoroughly mixed with the filtered oil so as to give stability against oxidation of oil.

DETAILS OF THE TRANSFORMER OIL RECLAMATION PLANT:

The plant is erected inside the distribution transformer repair bay.

1. Two nos. cylindrical tanks; released from the condemned BTH make 110 KV bulk oil circuit breakers, single pole type, are fabricated into two nos. reclamation vessels with stirring arrangements consisting of a central shaft and agitators fixed to the shaft. The capacity of each vessel is 4000 litres.
2. Two nos. 10 HP motors released from the condemned Mulsyfire system are used for driving the stirring mechanism.
3. Two nos. crown released from the Army tank and available for sale as second hand are used for converting the horizontal motion of the motor shaft into vertical motion of the stirring shaft at reduced speed of 120 rpm to 1440 rpm.
4. Twelve nos. strip heaters each 1000 W available at stores (as spares to the filter and the filter, which was already condemned) are used for heating.
5. Two nos. oil temperature indicators (OTI) kept as spare are used to control the temperature automatically at the set value.

6. Pipe lines with motor pumping for loading the reclamation vessel from the storage tanks and for pumping the treated oil after filtering to the DBPC mixing vessel are provided so as to handle the oil at ease and without spilling etc.

7. Electric oven available at the distribution transformer repair bay used for drying out core and coil assembly is now utilised to its full time for heating the fullers earth before its use and to burn out the contaminants in the used fullers earth before disposal without giving rise to any pollution problem.

8. Blotter press and streamline Filters already available for reconditioning the used oil in the repair bay are now put into their full capacity for filtering the oil after fullers earth treatment.

9. Three tanks released from condemned bulk oil circuit breakers are used for storing the used/unservicable oil and reclaimed oil.

10. The following testing facilities already available in the repair bay are also utilised for testing the oil samples before and after reclamation process :

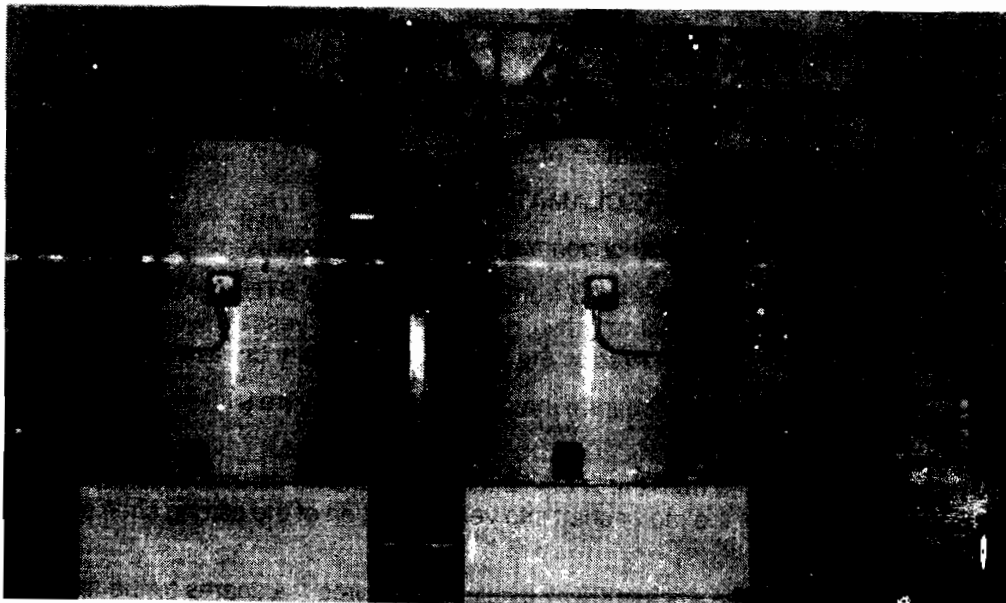
1. Oil testing kit for testing Electric strength (BDV).
2. Testing facility for testing Acidity using field test kit developed by CPRI, Bangalore.
3. Testing facility for testing IFT using field test kit developed by CPRI, Bangalore.
4. Crackle.

PLANT CAPITAL :

The expenditure towards the fabrication of stirring mechanism and platform and ladder to the platform from the ground etc. comes to Rs.1.5 lakhs only. Thus the plant is erected with a meager capital investment, utilising the obsolete materials and by utilising the existing infrastructure to its full capacity. The capital investment required to erect a plant of such capacity would be about 20 to 25 lakhs.

PLANT VIEW :

Picture below will give a complete view of the plant.



PLANT CAPACITY :

i) Duration of reclamation process :)	
1. Loading the vessel with 2200 litres of Used/unserviceable oil from drums by 2 HP motor pumping)	
2. Heating the oil 60°C)	
3. Pouring the fullers earth and simultaneously stirring)	36 Hrs. to 48 Hrs.
4. Stirring the mixture at 60°C)	(2 days)
5. Setting time at ambient temperature)	
6. Decanting and filtering)	
7. Mixing Additive (antioxidant - DBPC))	
ii) Preparation, cleaning of vessels etc.	:	1 day
iii) Total No. of days required for one cycle	:	3 days
iv) No. of cycles in a month (20 working days)	:	6 to 7
v) Quantity of oil used per cycle	:	2200 litres
vi) Quality of oil obtained after reclamation depending upon the quantity of the used/unserviceable oil	:	80 to 90%
vii) Total quantity of oil that can be reclaimed	:	15,000 litres/month
	:	1,80,000 litres/annum
	:	180 Kilo litres/annum
viii) Ultimate capacity of the plant	:	360 Kilo litres/annum

COST OF RECLAMATION :

i) Cost of fullers earth per cycle	:	Rs.1,800/- (Maximum)
ii) Cost of additive (DBPC) cycle	:	Rs.4,000/- (Maximum)
iii) Electrical energy consumption charges/cycle	:	Rs. 500/-
iv) Supervision and Labour charges/cycle	:	Rs.1,200/-
v) Interest on capital etc.	:	Rs. 500/-
Total cost per cycle	:	Rs.8,000/-
Cost of reclamation/litre	:	Rs.4/- (maximum)
Cost of new oil/litre	:	Rs.24/-
Savings/litre	:	Rs.20/-

PLANT LAYOUT :

Fig1. will show the Flowline diagram of the plant.

Fig2. will show the various parts of the reclamation vessel.

RECLAIMED OIL CHARACTERISTIC :

Discarded oil kept for auctioning for the last 1 1/2 years (the same could not be auctioned, as there is stay from court) was drawn for reclamation. This highly contaminated oil was selected for reclamation to ensure the quality of reclamation process through the plant.

The quantity of oil used was 2200 litres and the quantity of oil recovered after reclamation was 1900 litres (85%) and the quantity of oil lost in the process of reclamation and during the reconditioning was 300 litres (15%). Oil samples for testing, were taken before and after reclamation. Oil samples were sent to the CPRI/Bangalore for testing. The test results furnished by the CPRI/Bangalore is tabulated with the improvements of oil characteristics in Table 1.

Specific Resistance (Resistivity) improved to 1428 times @ 90°C and 3583 times @ 27°C.

Interfacial Testion (I.F.T.) improved to 2.35 times.

Neutralisation value (Total Acidity) improved to 8.8 times.

Tan delta @ 90°C improved to 420 times.

These improved characteristics were not at all obtained through the Reconditioning process so far in vogue.

USE OF RECLAIMED OIL IN DISTRIBUTION TRANSFORMERS AND ITS PERFORMANCE :

The above reclaimed oil is now used for filling in the Distribution Transformers after repair.

The Insulation Resistance (IR value) measurements, made in these distribution transformers by means of a 1000 Volts megger with maximum scale reading upto 200 M.ohms show that the IR values are above the scale reading of 200 M.ohms and below infinity at Room temperature of 30°C.

To assess the exact values, 2.5 KV motor operated megger was used to measure the IR values between High voltage winding to earth. The values obtained at Room temperature of 30°C are ranging from 350 M.ohms to 2000 M.ohms. depending upon the distribution transformer make (Refer Table 2).

IR values of repaired distribution transformers with reconditioned oil are around 50 M.ohms in majority of cases, at Room temperature of 30°C (Refer Table 3). This very low IR values were causing failure of distribution transformers during the switching surges impinging on the windings at the time of Restriction and Control Operation on the HT feeders from 3 phase supply to 2 phase supply and/or while operating the transformer at severe overloaded condition giving use the temperature of oil to 90°C or above.

The switches surges will be 6 times to that of the nominal voltage of the system and the IR values will be halved for every 10°C rise in temperature of oil. At 90°C, the IR value of 50 M.ohms at 60°C will be around 1 M.ohm. Thus the IR value reduces to 50 times. With 50 times reduced IR value, when a surge voltage impinges on the winding, the failure of distribution transformer is imminent.

SAFETY OF THE PLANT :

The electrical circuits to electric motors and strip heaters are provided with the following :

- 1) Residual current circuit breaker to provide protection against Earth Leakage current thereby accident to human beings is totally eliminated.
- 2) Miniature Current Circuit breakers to provide protection against Overload and Short circuits.
- 3) To maintain the set Oil temperature at 60°C during the process, contractors inconjunction with Oil temperature indicator automatically cut-in or cut-off the strip heaters when the temperature goes below or above 60°C respectively.
- 4) Motor starters with overload trip.
- 5) Fuse carriers as back up protection and for isolation of Electric Supply.
- 6) The reclamation oil is maintained at a temperature of 60°C only, which is well below the flash and fire point of 140°C. Hence, fire hazard in oil is not possible.

ADVANTAGES OF THE PLANT :

1. Procurement of new oil at a heavy cost in crores of Rupees can be limited, by that large savings can be limited, by that large savings can be made to the Electricity Board.
2. Foreign-exchange reserve out flow is reduced.
3. Petroleum crude is a scarce material, depleting at a faster rate. Conservation of petroleum products is essential. To emphasis this, GOVT. OF INDIA celebrates 'Oil Conservation week' and from 1999 it is celebrated for a fortnight instead of a week. This plant is not only helping in conserving the oil, but also, in converting waste into wealth.
4. The distribution transformers premature failures with reconditioned oil will be averted to a very great extent.
5. The problem of disposing of unserviceable transformer oil can be solved to a great extent.
6. The plant is highly self remunerative.

CONCLUSION :

It is high time to establish reclamation plants at various centres in the various State Electricity Boards based on the Know-how developed by CPRI, Bangalore by fully utilising the existing infrastructure in the State Electricity Boards repair bays in the National interest.

Oil Samples tested at CPRI, Bangalore and Test Results of Oil before and after Reclamation.**TABLE - 1**

Sl. No.	Characteristics	Permissible limit for satisfactory use as per IS 1866/1983		Total Results of Oil Before Reclamation	Test Results of Oil After Reclamation
1.	Specific Resistance (Resistivity) x 10 Ohm.cm. 90°C 20°C	0.1	(Min)	0.014 0.12	20 430
2.	Interfacial Tension @ 27°C (N/M)	0.015	(Min)	0.014	0.033
3.	Neutralisation Value (mgm. KOH/gm) (Total Acidity)	0.5	(Max)	0.15	0.017
4.	Dielectric Dissipation Factor (Tan Delta) @ 90°C	0.2	(Max)	1.22	0.0029

TABLE - 2**IR VALUE MEASUREMENTS IN DISTRIBUTION TRANSFORMER FILLED WITH RECLAIMED OIL**

Sl. No.	Date of test.	Make	Capacity (KVA, KV/V)	Temp of Oil	IR values Measured with Waco Make Hand Operated 1000 Volts. Megger (Sl.No.92068)				IR values Measured with Waco Make Power Operated. 2500 Volts. Megger. (Sl. No. 850556)
					HV to Earth (M.Ohms)	LV to Earth (M.Ohms)	HV to LV (M.Ohms)	HV to Earth (M.Ohms)	
1.	27.1.99	A	63.11/433	30°C	>200	>200	>200	300	
2.	27.1.99	B	63.11/433	30°C	>200	>200	>200	1200	
3.	27.1.99	C	63.22/433	30°C	>200	>200	>200	2000	
4.	27.1.99	D	100.11/433	30°C	>200	>200	>200	400	
5.	27.1.99	E	100.11/433	30°C	>200	>200	>200	350	
6.	27.1.99	F	100.22/433	30°C	>200	>200	>200	700	

TABLE - 3

**IR VALUE MEASUREMENTS IN DISTRIBUTION TRANSFORMER FILLED WITH
RECONDITIONED OIL**

Sl. No.	Make	Capacity (KVA, KV/V)	Temperature of Oil	IR values Measured with Waco Make Hand operated 1000 Volts Megger. (Sl.No.92068)		
				HV to Earth (M.ohms)	LV to Earth (M.ohms)	HV to LV (M.ohms)
1.	A	63,11/433	29 C	40	30	40
2.	B	63,11/433	29 C	50	40	50
3.	C	63,22/433	30 C	30	35	30
4.	D	100,11/433	30 C	40	30	40
5.	E	100,11/433	30 C	80	70	80
6.	F	100,22/433	30 C	50	40	50

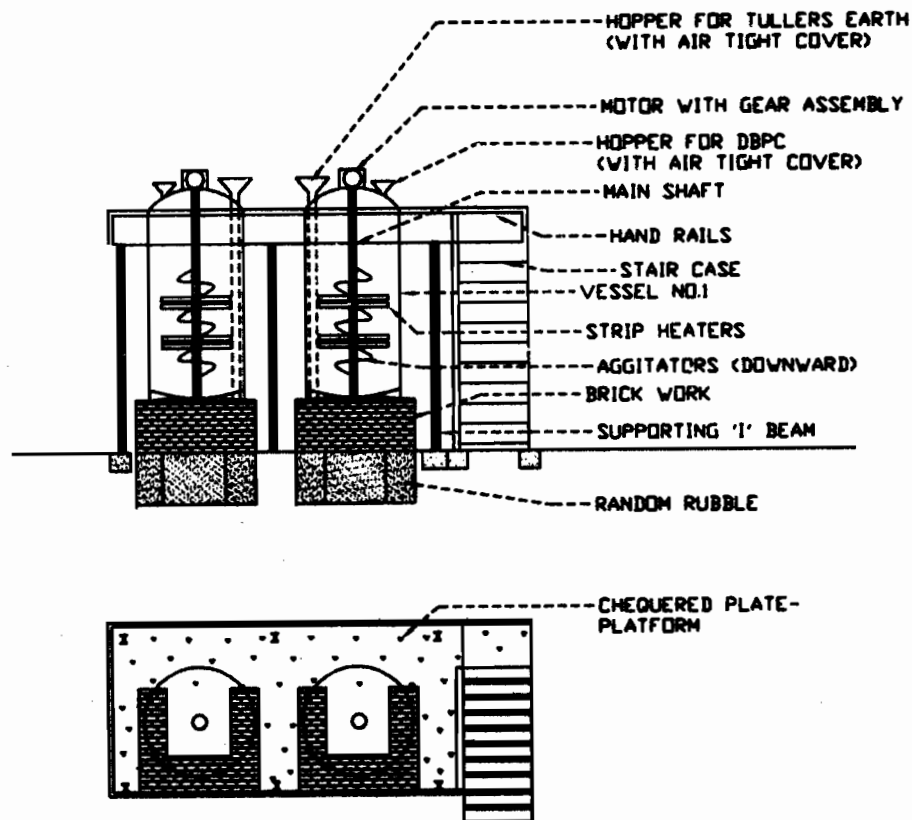


Fig.1

FLOW LINE DIAGRAM FOR RECLAMATION OF TRANSFORMER OIL

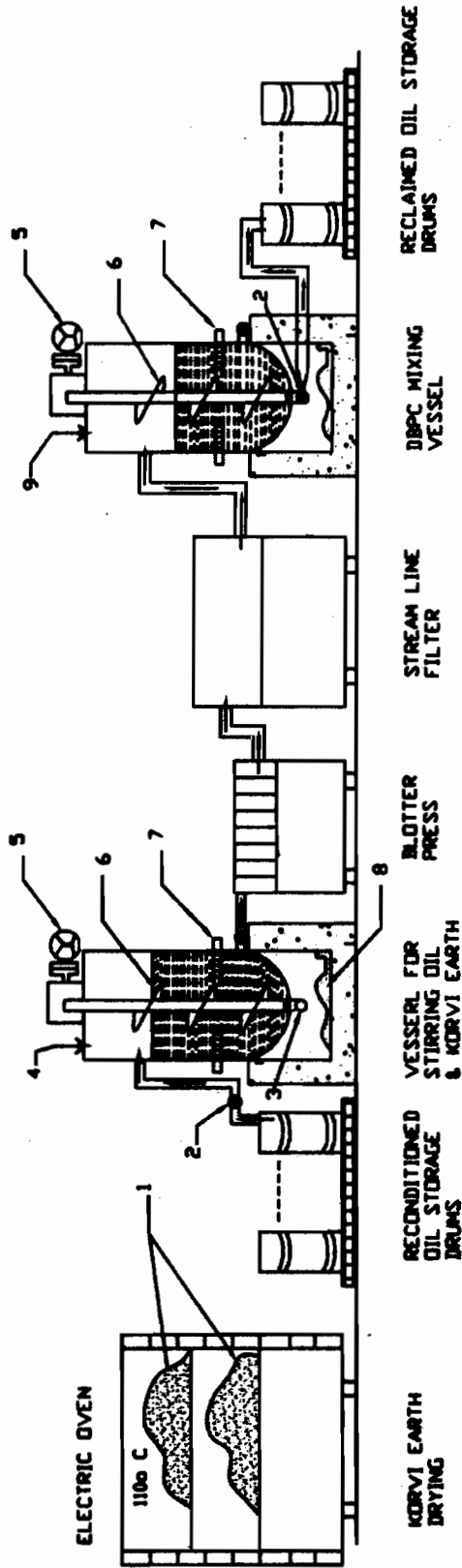


Fig.2

LEGEND:

- 1- KORVI EARTH
- 2- PUMP
- 3- DRAIN PLUG
- 4- INLET FOR KORVI EARTH
- 5- MOTOR WITH GEAR ASSEMBLY
- 6- SHAFT WITH STIRRER
- 7- HEATERS
- 8- USED KORVI EARTH
- 9- INLET FOR DBPC

குறிப்பானை எண்.0375/மே.பொ./தொ.மி.ஓ.மே./செ.பொ.1/உ.செ.பொ.1/டி.826/2000, (தொழில் நுட்பக் கிளை) நாள்.11.12.2000.

பொருள்: மின்சாரம் வழங்கல் - விதி மீறல்கள்/மின் திருட்டு - காரணம்
கேட்டல் படிவங்கள் தமிழில் அனுப்புதல் - தொடர்பாக.

மின் நுகர்வோர்கள், விதி மீறல்கள்/மின் திருட்டு செய்யும்போது அவர்களுக்கு வழங்கப்படும் காரணம் கேட்டல் கடிதத்தை (படிவம் 4 மற்றும் 6) தமிழில் கேட்கிறார்கள். எனவே, இவற்றின் தமிழ் மொழி பெயர்ப்பு இத்துடன் தக்க நடவடிக்கைக்காக அனுப்பப்படுகிறது.

இணைப்பு:

சி.ஆண்ட்ரூ டென்னிசன் ஆப்ரகாம்,
உறுப்பினர் (மின் பகிர்மானம்)

படிவம் - 4

மின் வழங்கலுக்கான விதிமுறைகள் மற்றும் வரையறைகளை மீறியதற்கான காரணம் கேட்கும் தாக்கீது (விதிமுறைகள் மற்றும் வரையறைகளுக்கான அட்டவணை 1-ல் இனம் 6.01-ன்படி பார்க்கவும்) அனுப்புநர் பெறுநர்

கடித எண்.

ஐயா,

பொருள்: மின்சாரம் வழங்கல் - மின் வழங்கலுக்கான விதிமுறைகள் மற்றும் வரையறைகள் மீறியது தொடர்பாக காரணம் கேட்கும் தாக்கீது வழங்கல்.

பார்வை: மின் இணைப்பு எண்.
வகைப்படுத்தப்பட்ட உயரமுத்த/தாழ்வமுத்த மின் கட்டண/
வீதப்பட்டி எண்.

1. (ஆய்வு நாள், மாதம் மற்றும் வருடம்) அன்று
மணி அளவில் மி.இ.எண்.. கதவு/புல எண்./பகிர்மானம் .
(மின் இணைப்பு முழு முகவரி) தங்கள் பெயரிலுள்ள மின் இணைப்பை (ஆய்வு செய்யும் அலுவலரின் பதவி) அவர்களால் தங்கள் முன்னிலையில்/தங்கள் பிரதிநிதி திரு. அவர்கள் முன்னிலையில் ஆய்வு செய்யப்பட்டது.
2. ஆய்வின்போது மேற்குறிப்பிடப்பட்டுள்ள மின் இணைப்பில் மேற்கூறிய அலுவலரால் கீழ்க்கண்ட மின் வழங்கலுக்கான விதிமுறைகள் மற்றும் வரையறைகள் மீறல்கள் கண்டுபிடிக்கப்பட்டுள்ளது:-
3. ஆய்வுக் குழுவின் அறிக்கை நகல் ஒன்றினை இத்துடன் இணைக்கப்பட்டுள்ளது. ஆய்வுக் குழு தங்கள் வளாகத்தில் தயார் செய்த மகஜரின் நகல் ஒன்றினை தங்களிடம்/தங்கள் பிரதிநிதியிடம் முன்னரே அளித்து அதற்குரிய ஒப்புக்கையை தங்களிடம்/தங்கள் பிரதிநிதியிடமிருந்து பெறப்பட்டுள்ளது. தங்களிடம்/தங்கள் பிரதிநிதியிடம் இருந்து கையொப்பமுடன் பெறப்பட்ட பதிவு செய்த வாக்குமூல நகலும் இணைக்கப்பட்டுள்ளது.
4. இந்த தாக்கீது கிடைக்கப்பெற்ற 24 மணி நேரத்திற்குள்/ஏழு நாட்களுக்குள் மேற்கூறிய விதி மீற (லை/ல்களை) நிறுத்திக் கொள்ள வேண்டுமெனவும் அல்லது மேற்கண்ட விதிமீறல்கள்/க்குரிய சாதனங்களை முழுமையாக அகற்றிவிடவேண்டுமெனவும் கேட்டுக் கொள்ளப்படுகிறீர்கள். தாங்கள் இதனைச் செய்யத் தவறும் பட்சத்தில், தங்களின் மின் தொடர்வு எவ்வித மறு அறிவிப்புமின்றி மின் துண்டிப்பு செய்யப்படும் என்பதை தாங்கள் கவனத்தில் கொள்ள வேண்டும்.
5. மின் வழங்கலுக்கான விதிமுறைகள் மற்றும் வரையறைகள்படி மேற்கண்ட விதிமீறலுக்கு ஏன் தங்கள் மீது சட்டப்படி நடவடிக்கை எடுக்கக்கூடாது என்பதற்கான விளக்கத்தையும் மற்றும் மேற்படி விதி மீறலுக்காக/ல்களுக்காக ஏன் தங்களிடமிருந்து மின் வழங்கலுக்கான விதிமுறைகள் மற்றும் வரையறைகள் அட்டவணை - இனம் 6.02-ன்படி இழப்பீட்டுத் தொகை விதித்து வருவிக்கக்கூடாது என்பதற்கான காரணத்தை இக்கடிதம் பெறப்பட்ட நாளிலிருந்து ஏழு நாட்களுக்குள் அளிக்கும்படி கேட்டுக்கொள்ளப்படுகிறீர்கள்.

6. மேற்கண்ட விதிமீற(ல்/கள்) கண்டுபிடித்ததை எதிர்த்து நீங்கள் விளக்கம் கூற விரும்பினால் அதற்குரிய தங்களின் தகுந்த ஆதாரத்தையும்/தங்களின் அறியாமையையும் அனுப்பி வைக்கலாம். மேலும் தாங்களோ/தங்கள் பிரதிநிதியோ நேரில் வந்து தகுந்த ஆவணங்களுடன் விசாரணைக்கான இழப்பீட்டுத் தொகை நிர்ணயிக்கும் மதிப்பீட்டு அலுவலர் முன் செயற் பொறியாளர்/மேற்பார்வைப் பொறியாளர்) அன்று காரணம் கேட்பு தாக்கீது நாளிலிருந்து 15வது வேலை நாளுக்குள் ஆஜராகி விளக்கமளிக்கலாம்.

7. மேற்குறிப்பிட்டுள்ள பத்திகள் 5 மற்றும் 6 நிர்ணயிக்கப்பட்டுள்ள காலத்திற்குள் தங்களிடமிருந்து பதில் பெறப்படவில்லை என்றாலோ, அல்லது திருப்தி அளிக்கும் வகையில் தங்களின் பதில் இல்லை என்றாலோ மின் வழங்கலுக்கான விதி முறைகள் மற்றும் வரையறைகளின்படி நடவடிக்கைக் கட்டணத்தை வசூலிக்க மேற்கொண்டு நடவடிக்கை எடுக்கப்படும்.

8. இத்தாக்கீதும் அதனுடன் கூடிய இணைப்புகளையும் பெற்றக்கொண்டதற்கான தேதியுடன் கூடிய ஒப்புக்கையினை உடனடியாக அனுப்பிவைக்குமாறு கேட்டுக் கொள்ளப்படுகிறீர்கள்.

தங்கள் உண்மையுள்ள,

உ.செ.பொ./இயக்குதலும் & பராமரித்தலும்.

இணைப்பு

1. ஆய்வு அறிக்கை.
2. பதிவு செய்யப்பட்ட வாக்குமூலம் (ஏதேனும் இருந்தால்)
3. பார்வை மகஜர்.

நகல் சமர்ப்பிக்கப்படுகிறது மேற்பார்வை பொறியாளர்/
பகிர்மான வட்டம்/

நகல் சமர்ப்பிக்கப்படுகிறது - செயற் பொறியாளர்/இயக்குதலும் & பராமரித்தலும்.

நகல் பெறுபவர் உதவி செயற் பொறியாளர்/இயக்குதலும் & பராமரித்தலும்/

நகல் பெறுபவர் உதவி/இளமின் பொறியாளர்/இயக்குதலும் & பராமரித்தலும்/

உதவி/இளமின் பொறியாளரால்,

1. இத்தாக்கீது மின் நுகர்வோருக்கு அளிக்கப்பட்டு அவரது தேதியுடன் கூடிய ஒப்புக்கையினை பெற்று அதனை இவ்வலுவலகத்திற்கு அனுப்பிவைக்க ஏற்பாடு செய்யும்படியும்.
2. 24 மணி/ஏழு நாட்கள் அறிவிப்பினைப் பெற்றுக்கொண்ட பின்பும் வாடிக்கையாளர் விதி மீறல் நடவடிக்கையினைத் தொடர்ந்தால் மின் இணைப்பினை துண்டித்து விடும்படியும்.
3. மின் இணைப்புத் துண்டிக்கப்பட்டமை இவ்வலுவலகத்திற்கும் வருவாய் பிரிவிற்கும் தெரிவிக்க வேண்டுமெனவும்.
4. மின் இணைப்பைத் துண்டித்த பிறகு/மின் நுகர்வோர் விதி மீறலுக்குரிய சாதனங்களை அகற்றியிருந்தால், மின் இணைப்பை மறுபிணைப்பு செய்வதற்கு முன் மறுபிணைப்பு கட்டணத்தை வசூலித்த பிறகே வழங்க வேண்டுமெனவும்.

நகல் பெறுபவர்- உதவி கணக்கு அலுவலர்/வருவாய் பிரிவு/

தேவையற்றவைகளை அகற்றி விடவும்.

/ உண்மை நகல் /

இணைப்பு:-

படிவம் - 6

மின் திருட்டு/மின் துண்டிப்பு செய்யப்பட்ட மின் இணைப்பிலிருந்து தன்னிச்சையாக அனுமதியற்ற மறு இணைப்பு செய்துகொண்டமைக்காக காரணம் கேட்கும் தாக்கீது (விதி முறைகள் மற்றும் வரையறைகளுக்கான அட்டவணை-1ல் இனம் 8.01-னை பார்க்கவும்).

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அனுப்புநர்

பெறுநர்

கடித எண்.

ஐயா,

பொருள்:

மின் திருட்டு/மின் துண்டிப்பு செய்யப்பட்ட மின் இணைப்பிலிருந்து அனுமதியற்ற மறு இணைப்பு செய்தது - மின் இணைப்பு எண் பகிர்மானம். ல் கண்டுபிடிக்கப்பட்டது - காரணம் கேட்கும் தாக்கீது வழங்கல்.

1. ஆய்வு நாள், மாதம் மற்றும் வருடம்) அன்று மணியளவில் மி.இ.எண். அமைந்திருக்கும் கதவு/புல எண்/பகிர்மானம் (மின் இணைப்பு முழு முகவரி) திரு/திருமதி. அவர்களின் பேரில் அனுமதியளிக்கப்பட்டுள்ளது. தாங்கள்/தங்கள் பிரதிநிதி திரு/திருமதி. அவர்களின் சம்மதத்தின் பேரிலும் உரிய தகவல்/அறிவிப்புக் கடிதம் தங்களுக்கு/தங்களின் பிரதிநிதிக்கு வழங்கிய பின்னரும். (மின் திருட்டு தடுப்புப்படை/இயக்குதலும் & பராமரித்தலும்/மின் அமைப்பு மற்றும் சாதனங்கள் ஆய்வு செய்யும் அலுவலரால் ஆய்வு செய்யப்பட்டது.

2. ஆய்வின் போது இவ்வாறாக அங்கே மின் திருட்டு இருந்ததை கண்டுபிடிக்கப்பட்டது. (விவரிக்கவும்).

காணப்பட்ட மின் திருட்டு உண்மையான விதிமுறையை மீறி வேண்டுமென்றே செயற்கை முறையில் இருந்தது/மின் துண்டிப்பு செய்யப்பட்ட மின் இணைப்பில் அனுமதியின்றி மறு மின் இணைப்பு செய்தது. மேற்சொன்ன குற்றத்தை செய்ததின் மூலம் தாங்கள் நேர்மையற்ற முறையில் மின்சாரத்தை எடுத்து/தடுத்து மின்சாரத்தை பயன்படுத்தி, நுகர்வு செய்து மின் வாரியத்தை ஏமாற்றும் நோக்கத்துடன் செயல்பட்டு வாரியத்திற்கு வருவாய் இழப்பீட்டினை ஏற்படுத்தியுள்ளீர்கள்.

மேலே கூறப்பட்ட சட்டத்திற்கு புறம்பான மின் தடை/நுகர்வு மற்றும் உபயோகத்தில் பயன்படுத்திய மின் பளு, மின் சக்தி பயன்பாடு ஆகிய செயல்கள் 1910-ல் வருட இந்திய மின்சாரச் சட்டத்தின் 1910/39 ஏ-ல் உட்பிரிவு 39 (1)-ன்படியும் தண்டனைக்குரிய குற்றமாகும்.

தங்களுடைய மின் இணைப்புக்கான மின் நுகர்வு கட்டண/நிலுவைத் தொகை செலுத்தாமையால் மின் துண்டிப்பு செய்யப்பட்டிருந்த மின் இணைப்பிற்கு சட்ட விரோதமாக மின்சாரம் மறு இணைப்பு செய்தது. இந்திய மின்சாரச் சட்டம் 1910 பிரிவு 24(1)-ன் படி வாரியத்தை ஏமாற்றுவது மட்டுமல்லாமல், இந்திய மின்சாரச் சட்டம் 1910 பிரிவு 44(1) (ஏ)/44 (1)(சி)-ன் இந்திய மின்சார விதி 1956 - விதி 138-ன் படி குற்றமாகும். மேற்கண்ட குற்றத்திற்காக தங்களின் மின் இணைப்பு. அன்று முதல் மின் துண்டிப்பு செய்யப்பட்டுள்ளது என்பது தாங்கள் அறியவும். ஆய்வுக்குமுதலாக முதலில் பார்த்து கண்டுபிடித்து மகஜர் மூலம் பறிமுதல் செய்யப்பட்ட ஒரு மின் சுத்தி துண்டோ/ஒரு குச்சியோ/ஒரு கயிரோ/போலி முத்திரைகளோ தங்களால் மின் இணைப்பில் மின் திருட்டு நடத்தப்பட்டதற்கும்/துண்டியக்கப்பட்ட மின் இணைப்பிற்கு முறையற்ற வழியில் மின்சாரம் எடுத்ததற்கும் ஆதாரமாகும் செயலை நிரூபிக்கும்.

3. மேற்கூறப்பட்ட தவறினை செய்ததற்காக தங்களுக்கு எதிராக காவல் நிலையத்தில் புகார் செய்யப்பட்டு குற்ற எண். -ன்படி பதிவு செய்யப்பட்டுள்ளது. குற்றமிழைத்தபோது சம்பவ இடத்தில் ஒரு மகஜரும் பதிவு செய்யப்பட்டுள்ளது. சட்ட விரோத மின் திருட்டு/சட்ட விரோதமாக மின்சாரம் எடுத்து நுகர்வு செய்ததின் மூலம் தோராயமாக ரூ. ரூபாய் தாங்கள் வாரியத்திற்கு இழப்பை ஏற்படுத்தியுள்ளீர்கள்.

4. அலுவலரின் ஆய்வறிக்கைகள், பட்டியல்கள் தங்களிடம்/தங்கள் பிரதிநிதியிடமிருந்து பதிவு செய்யப்பட்ட வாக்குமூலம், மகஜர் சம்மந்தப்பட்ட மற்ற ஆவணங்கள் முதலியவற்றின் நகல்களும் இத்தாக்கீதுடன் இணைக்கப்பட்டுள்ளது. மேற்கூறப்பட்ட குற்றத்தை செய்ததால் வாரியத்திற்கு ஏற்பட்ட இழப்பீட்டிற்கு மின் வழங்கலுக்கான விதிமுறைகள் மற்றும் வரையறைகள் மற்றும் வாரியத்துடன் தாங்கள் செய்து கொண்ட ஒப்பந்தத்தின்படியும் தங்களிடமிருந்து ஏன் நட்புடன் தொகை வசூலிக்க கூடாது என்பதற்கான காரணத்தினை இக்கடிதம் பெறப்பட்ட ஏழு தினங்களுக்குள் அளிக்குமாறு தாங்கள் கேட்டுக் கொள்ளப்படுகிறீர்கள்.

5. மேற்கண்ட குற்றம் கண்டுபிடித்ததை ஆட்சேபித்து, தாங்கள் விளக்கம் கூற விரும்பினால் தகுந்த ஆதாரத்துடன் தாங்களோ/தங்கள் பிரதிநிதியோ இழப்பீட்டுத் தொகை நிர்ணயிக்கும் மதிப்பீட்டு அலுவலர் முன் விசாரணைக்காக (செயற் பொறியாளர்/இயக்குதலும் & பராமரித்தலும்/ பகிர்மான வட்டம்) அன்று ஆஜராகி விளக்கமளிக்கலாம். (காரணம் கேட்பு தாக்கீது நாளிலிருந்து 15வது வேலை நாளுக்குள்).

6. மேற்கூறப்பட்ட பத்திகள் 4 மற்றும் 5-ல் நிர்ணயிக்கப்பட்ட காலத்திற்குள் தங்களிடமிருந்து பதில் பெறப்படவில்லை என்றாலோ (அல்லது) திருப்தியளிக்கும் வகையில் தங்களின் பதில் இல்லை என்றாலோ, மின் வழங்கலுக்கான விதிமுறைகள் மற்றும் வரையறைகளின் பிரிவு 8.02-ன்படி கூடுதல் இழப்பீட்டுத் தொகை விதிக்க மேற்கொண்டு நடவடிக்கை எடுக்கப்படும்.

7. இத்தாக்கீது பெற்றுக் கொண்டதற்கான தேதியுடன் கூடிய தங்களது ஒப்புக்கையை உடனே அளிக்குமாறு கேட்டுக் கொள்ளப்படுகிறீர்கள்.

தங்கள் உண்மையுள்ள,

உ.செ.பொ./இ & ப/

செ.பொ./இ & ப/

இணைப்பு நகல்கள்:-

1. ஆய்வறிக்கை.
2. பதிவு செய்யப்பட்ட வாக்குமூலம்
(ஏதேனுமிருந்தால்)
3. மகஜர்.

இதன் நகல் சமர்ப்பிக்கப்படுகிறது மேற்பார்வை பொறியாளர்/ மின் பகிர்மான வட்டம்

இதன் நகல் சமர்ப்பிக்கப்படுகிறது செயற் பொறியாளர்/இ & ப/

நகல் பெறுபவர் உதவி செயற் பொறியாளர்/இ & ப/

நகல் பெறுபவர் உதவிப் பொறியாளர்/இ & ப/

நகல் பெறுபவர் இளமின் பொறியாளர்/இ & ப/

உதவி/இளமின் பொறியாளரால்,

1. இவ்வறிவிப்பு பயனீட்டினருக்கு கொடுக்கப்பட்டு அவரது தேதியுடன் கூடிய ஒப்புக்கையினை பெற்று அதனை இவ்வலுவலகத்திற்கு அனுப்பி வைக்க ஏற்பாடு செய்யும்படியும்.
2. தேவையற்றவைகளை அகற்றிவிடவும்
"24 மணி/ஏழு நாட்கள்" அறிவிப்பினைப் பெற்றக் கொண்ட பின்பும், பயனீட்டாளர் விதிமீறல் நடவடிக்கையினைத் தொடர்ந்தால் மின் இணைப்பைத் துண்டித்து விடும்படியும்.
3. மின் இணைப்புத் துண்டிக்கப்பட்டதை இவ்வலுவலகத்திற்கும் வருவாய் பிரிவிற்கும் தெரிவிக்க வேண்டுமெனவும் மின் இணைப்பைத் துண்டித்த பிறகு, பயனீட்டாளர் விதி மீறலுக்குரிய சாதனங்களை அகற்றியிருந்தால், மறு மின் இணைப்பு வழங்குவதற்கான தொகையை வசூலித்த பிறகே மீண்டும் மின் இணைப்பு வழங்கிட வேண்டும் எனவும் அறிவுறுத்தப்படுகிறது.

நகல் பெறுநர்: கணக்கு அலுவலர்/வருவாய் பிரிவு.

Electricity - Terms and Conditions of Supply of Electricity - Violation in Hut Service Connection - Action to be taken - Amendment to existing provisions - Orders issued.

Permanent B.P.(F.B.) No.196

(Technical Branch)

Dated 12.12.2000.

Karthigai, 7, Vikrama,
Thiruvalluvar Aandu 2031

Read:

- Ref: 1. Permanent B.P.(F.B.) No.243, Dt.20.12.99.
2. Extract of Minutes 822nd meeting of the Board held on 2.12.99.

Proceedings:-

In the B.P. cited, the Board directed that if any consumer of Hut service connections, is found to indulge in violation such as unauthorised additional loads and unauthorised extension, the consumer shall be given one month notice to avail the service connection under Tariff I.A. by paying the meter caution deposit and current consumption deposit in easy instalments, failing which the hut service connection shall be disconnected and dismantled permanently.

Accordingly in exercise of the powers conferred by Section 49 of Electricity (Supply) Act 1948 (Central Act LIV of 1948) read with Section 79 (J) the Board issues the following amendments to the sub-clauses 2.03 item VII and VIII of 37 Schedule Part I of Terms and Conditions of Supply of Electricity notified in B.P.(Ms.) (F.B.) No.61 (Adm.Br.) Dt.24.12.1988 and amended upto 31.8.95 and published in Part-VI Section 3 (b) of the Tamil Nadu Government Gazettee No.7, Dt.21.2.96 and further amended subsequently.

The amendment will come into effect from 20.12.1999.

The items (vii) and (viii) of sub-clause 2.03 of Schedule Part-I of Terms and Conditions of Supply of Electricity may be deleted and the following may be substituted.

Sl. No.	Violation	Action
vii.	Unauthorised additions/ alteration/extension in hut service connections for residential purposes.	The consumer may be given one month notice to avail the regular metered service connection under Tariff IA (Domestic purpose) by making ready the wiring with meter board and cut outs etc., and by paying the Meter Caution Deposit and Current Consumption Deposit in easy instalment as prescribed by the Board from time to time. If the consumer fails to avail the opportunity of converting his hut service connection to Domestic service under Tariff-IA the Hut service connection may be disconnected and dismantled permanently.
viii.	Supply of energy from a live hut service connection to a disconnected service connection of any tariff and use of electricity in hut service connection for other purposes such as commercial/industrial purposes.	The consumer shall be given one month notice to get the service connection converted to metered service under appropriate tariff on payment of applicable charges in one lumpsum. If he does not come forward the service connection may be disconnected and dismantled permanently.

(By Order of the Board)

C. Andrew Tennyson Abraham,
Member (Distribution).

Endt.No.SE/IEMC/EE3/AEE2/F.9-5/D.668/2K, (Techl. Br.), Dt. 15.12.2000.

Ref: Lr. Ms. No.185 dated 27.9.2000 received from the Secretary to Govt. Energy (C3) Dept., Chennai - 9. addressed to the Secretary /TNEB/Chennai - 2.

Copy communicated to All Chief Engineers/Distribution Regions and Superintending Engineers/ All Elec.Distr.Circles to abide by the instructions issued in G.O.Ms.No.382, Dt.14.5.93 enclosed.

C. Andrew Tennyson Abraham,
Member (Distribution).

Encl: Copy of letter dt.27.9.2000.

Copy of Letter Ms.No.185, Dt.27.9.2000 received from Thiru Lal Rawna Sailo, I.A.S., Secretary to Government, Energy (C3) Department, Secretariat, Chennai-9 addressed to the Chairman, Tami Nadu Electricity Board, Chennai-2.

- Sub: Electricity - Extension of power to the houses in Poramboke Land - Cancellation of certain orders - Orders issued.
- Ref: 1. Lr.(Ms) No.148, Energy Dept. Dt.26.8.97.
2. Govt.Lr.No.13019/A2/97-1, Energy Dept Dt.6.1.98.
3. From the High Court Order Dt.1.9.98 in W.P.Nos.10748, 12714,12717/98 and WMP Nos.16409/19387 to 19390/98.
4. From the Chairman, T.N.E.B.'s Lr.No.SE/IEMC/RE3/AEE2/F9/D.812/98, Dt.2.1.99, 20.2.99 & 27.9.1999.
5. From the Joint Commissioner (Land) Admn.D.O.Lr.No.11/13421/99, Dt.28.4.2000.

I am to state that in Lr.(Ms.) No.148, Energy Dated 26.8.1997 instructions were issued to Chairman, Tamil Nadu Electricity Board that the Houses constructed on Poramboke Lands in respect of which house tax has been levied by the local body or whose occupants posses ration cards may be considered eligible for extension of power supply. The supply effected should be metered and the current consumption charges have to be paid to the Tamil Nadu Electricity Board. However, for such extension of supply to houses constructed in Water Course poramboke, the Safety aspects will have to be gone into by Tamil Nadu Electricity Board before providing power connection. Further, in Lr.No.13019/A2/97, 1 Energy Dt.6.1.1998 instructions were also issued to the Chairman, Tamil Nadu Electricity Board to give supply for a building used as a place of worship constructed on poramboke lands only on production of No objection Certificate from the Revenue Authorities.

2. I am also to state that in the Judgement of the High Court dated 1.9.98 in W.P.Nos.10748, 12714 to 12717/98 among others, it has been observed that

" The Government undertakings like Electricity Board and the local bodies should also be restrained from giving Electricity supply and other facilities unless they are satisfied with the ownership of the land if any building is constructed in the Government property whether it is a Poramboke land or otherwise, without the consent of Govt. authorities, the Govt. undertakings should not freely extend their helping hand to give the amenities for the properties, which have been constructed by way of encroachment. This may lead to various inferences in respect of conduct of the authorities, which ultimately affect the deputation of the officers in discharging their statutory functions. The Government is directed to issue necessary directions to the head of the districts in those lines so that atleast in future this sort dual litigation can be prevented "

3. The special Commissioner for Land Administration has been consulted. The Joint Commissioner (Land) Land Administration Department in his letter referred to fifth above reiterated the orders issued in G.O.(Ms) No.382, Revenue Dated 14.5.1993 and this was accepted by Revenue Department.

4. In view of the above, it is directed that the orders issued in Govt. Lr. referred to first and second above be cancelled. Tamil Nadu Electricity Board may abide by the instructions issued in G.O.(Ms) No.382, Revenue Dt.14.5.1993.

Encl:

Sd./xxx

For Secretary to Government.

//True Copy//

நகல்:

தமிழ் நாடு அரசு

சுருக்கம்

வீட்டு மனை - மின் இணைப்பு - மறுப்பின்மைச் சான்று - அரசு புறம்போக்கு நிலங்கள் - ஏரிகள், குளங்கள் மற்றும் காலவாய்கள் நிலங்களில் ஆக்கிரமிப்புச் செய்து வீடுகள் கட்டி வாழ்ந்து வருபவர்களுக்கு மின் இணைப்பு வழங்க மறுப்பின்மைச் சான்றிதழ் வழங்குதல் குறித்து ஆணைகள் வெளியிடப்படுகின்றது.

அரசாணை நிலை எண்.382

வருவாய் (ஏ) துறை

நாள் 14.5.1993

பார்க்க-

1. செங்கல்பட்டு -எம்.ஜி.ஆர். மாவட்ட ஆட்சியரின் நக.எண்.136651/90/கே-1, நாள்.18.9.91.
2. தலைமைப் பொறியாளர் (பாசனம்) கடித எண்.எச்.3/13336/92, நாள்.25.7.92.
3. நில நிர்வாக ஆணையரின் கடித எண்.நகட்டி1/66200/91, நாள்.12.10.92.

ஆணை:-

அரசு நிலங்களை ஆக்கிரமிப்பு செய்வது தற்போது அதிகரித்து வருகிறது என்றும், முக்கியமாக பொதுப்பணித் துறைக்குச் சொந்தமாக ஆறுகள், ஏரிகள், குளங்கள், சிற்றோடைகள் மற்றும் வரத்துக்கால்வாய்கள் ஆகியவற்றில் ஆக்கிரமிப்புகள் அதிகம் உள்ளன என்றும், இந்த ஆக்கிரமிப்புக்களினால் பாசன ஆதாரங்களின் கொள்ளளவு பெருமளவு குறைந்து உணவு உற்பத்தித் திறன் பாதிக்கப்படுகிறது என்றும், மேலும் இந்த ஆக்கிரமிப்புகள் பாசன ஆதாரங்களில் மேம்பாட்டு பணிகள் செய்ய இடையூராக உள்ளன என்றும், வெள்ள நீர் தடையின்றி வடிய இந்த ஆக்கிரமிப்புகள் தடையாக உள்ளன என்றும், ஆகையால் அரசு பாசன ஆதாரங்களில் உள்ள ஆக்கிரமிப்புக்களை அகற்றும்வரை மிக முக்கியப் பணியாகக் கருதுகிறது என்றும் இதுவரை கண்டறியப்பட்டவாறு சுமார் 12,641 ஹெக்டேர் மாநிலத்தின் பல பகுதிகளில் ஆக்கிரமிப்பில் உள்ளது என்றும், சமீப காலங்களில் எடுக்கப்பட்ட தீவிர நடவடிக்கை காரணமாக சுமார் 836 ஹெக்டேர் நிலங்களில் ஆக்கிரமிப்பு அகற்றப்பட்டு உள்ளது என்றும், இதற்கிடையில் பொதுப்பணித் துறை நிலங்களில் உள்ள ஆக்கிரமிப்புகளுக்கு இத்துறையின் மறுப்பில்வாச் சான்றிதழ் (No Objection Certificate) இல்லாமலே மின் இணைப்புக்கள் மற்றும் குடிநீர் குழாய் இணைப்பும் இதுவரை கொடுக்கப்பட்டு வருகிறது என்றும், இந்த இடங்களில் ஆக்கிரமிப்புக்களை அகற்ற துறை நடவடிக்கை மேற்கொள்ளும்பொழுது மேற்குறிப்பிட்ட மின் இணைப்பு குடிநீர் போன்றவற்றிற்கு செலுத்தப்பட்ட கட்டண ரசீதுகளை நீதிமன்ற தடையுத்தரவு பெற ஆக்கிரமிப்பாளர்கள் உபயோகப்படுத்துகிறார்கள் என்றும், இந்த வழக்குகள் முடிய பல ஆண்டுகள் ஆகின்றன என்றும், அதுவரை ஆக்கிரமிப்பாளர்களை அகற்ற முடிவதில்லை என்றும் தெரிவித்துள்ளார். இதைத் தவிர்க்க பொதுப்பணித்துறை நிலங்களின் மீது ஆக்கிரமிப்புக்களின் குடியிருப்புகளுக்கு பொதுப்பணித்துறை தகவலின் பேரில் சம்பந்தப்பட்ட துறையினர் மின் விநியோகம் மற்றும் குடிநீர் விநியோகம் ஆகியவற்றை நிறுத்திவிட வேண்டும் என்றும், மேலும் பொதுப்பணித் துறையினர் மறுப்பில்வாச் சான்றிதழ் இன்றி மேற்கண்ட ஆக்கிரமிப்புகளுக்கு குடிநீர் மற்றும் மின் விநியோக இணைப்பு வழங்குதல் கூடாது என்றும், இம்மாதிரி விதிகளைப் பின்பற்றினால் இருக்கும் ஆக்கிரமிப்புக்களை அகற்றுவதற்கு துணைபுரிவதுடன் புதிதாக ஏற்படும் ஆக்கிரமிப்புகளுக்கு ஊக்கத் தடையாகவும் இருக்கும் ஏன்றும் தலைமைப் பொறியாளர்(பாசனம்) தெரிவித்துள்ளார்.

2. இது குறித்து தலைமைப் பொறியாளர் (பாசனம்) அவர்கள் தெரிவித்துள்ளதாக நிலநிர்வாக ஆணையர் தனது அறிக்கையில் புறம்போக்கு நிலங்களிலும் நீர்வழிப்புறம்போக்கு நிலங்களிலும் ஆக்கிரமிப்பு அதிகமாகி அனுமதியின்றி கட்டிடங்கள் கட்டப்பட்டு வருகின்றன எனவும், இதனால் சுற்றுப்புறச் சூழல் மாசுபடுவதுடன், வெள்ள காலங்களில் மிகுந்த பொருட் சேதங்கள் ஏற்படக் காரணமாக அமைகின்றது என்றும், எனவே, இத்தகைய ஆக்கிரமிப்புக்கள் தடுத்து நிறுத்தப்பட வேண்டும் என்பதைக் கருத்தில் கொண்டு புறம்போக்கு நிலத்தில் அனுமதியின்றி கட்டப்பட்ட கட்டிடங்களுக்கும், பம்புசெட்டுகளுக்கும் மின் இணைப்பு அளிக்கக்கூடாது என்றும் தெரிவித்துள்ளார். மேலும் நிலக்கொள்கை பற்றிதான் அனுப்பியுள்ள அறிக்கையில் ஆக்கிரமிப்புகளில் மின் வசதி செய்து கொடுத்தல், கட்டிட வரைபடம் ஒப்புவித்தல் விவசாயப் பொறியியல் அலுவலர்களால் நிலத்தின் வரப்பினை உயர்த்தி அமைத்தல் (Soil Conservation) முதலியன செய்ய அனுமதித்தல் கூடாது என அரசுக்கு அறிக்கை அனுப்பியுள்ளதாகவும் இன்னும் அன்னார்களுக்கு உணவு பங்கீட்டு அட்டை வழங்குவது சம்பந்தமாக நுகர்பொருள் ஆணையருக்கு கூடும் எழுதியுள்ளதாகவும், ஆக்கிரமினதாரர்களுக்கு அனைத்து வசதிகளும் செய்து கொடுப்பின் ஆக்கிரமம் வளருமேயன்றி குறைவதற்கு வாய்ப்பில்லை என்றும் தெரிவித்துள்ளார்.

3. மேற்கூறிய காரணங்களினால் அரசு புறம்போக்கு நிலங்களில் அமைந்துள்ள வீடுகளுக்கு மின் இணைப்பு வழங்க ஆக்கிரமினதாரர்களுக்கு தடையில்லாச் சான்று வழங்குவது சரியல்ல என்று நில நிர்வாக ஆணையர் தெரிவித்துள்ளார். மேலும் 1992-ம் ஆகஸ்ட் திங்களில் பொதுக் கணக்குக் குழு (Public Accounts Committee) விவாதத்தின்போது உறுப்பினர்கள் இக்கருத்தை வலியுறுத்தியுள்ளதாகவும் தெரிவித்துள்ளார்.

4. நிலநிர்வாக ஆணையரின் செயற்குறிப்பினை அரசு நன்கு ஆய்வு செய்தது. எனவே, நிர்நிலைப்புறம்போக்கு மற்றும் அரசு புறம்போக்கு நிலங்களில் ஆக்கிரமினம் செய்து கட்டப்பட்ட வீடுகளுக்கு மின் இணைப்பு வழங்க ஆக்கிரமினதாரர்களுக்கு தடையில்லாச்சான்று வழங்கக்கூடாது எனவும் இதனை கண்டிப்புடன் நடைமுறைப்படுத்த வேண்டும் எனவும் அரசு ஆணை பிறப்பிக்கிறது.

5. இவ்வரசாணை பொதுப்பணித்துறையின் இசைவுடன் வெளியிடப்படுகிறது. அலுவல் சார்பற்ற குறிப்பு எண்.15591/யு2/93-1, நாள்.5.3.93.

(ஆளுநரின் ஆணைப்படி)

அ. பால்ராஜ்,
சிறப்பு ஆணையர் மற்றும் அரசு செயலாளர்.

//உண்மை நகல்//

MEMO.NO.CE/TR/SE/CAUP/ET/A2/F.Tech.Circular/D.551/2000, (Techl.Br.) Dt.18.12.2000.

Sub: Proper testing of power transformer - Regarding.

Ref: MEMO.NO.CE/TR/SE/CAUP/ET/A2/F.A.M.Format/D.490/2000 Dt.04.11.2000.

It is brought to the notice that the differential protective relay of a 10 MVA 110/11KV power transformer has acted and the differential relay was also burnt. There was no action by the Buchhoiz relay.

Before coming to a conclusion whether the power transformer failed or not, a complete testing of the power transformer is a must and the tests comprising of testing of Buchhoiz relay of the main tank and Buchholz relay of the OLTC chamber, individual differential relay, differential protective scheme as a whole, oil tests etc. are to be carried out without any omission for proper analysis & conclusion thereon. In this case even the Buchhoiz relay was not even tested for ensuring the relay sensitiveness after the above happening. This is highly irregular on the part of the EE/MRT who have conducted the tests. SE/O&M should have analysed the test results and ensured whether there is any omission of tests etc. This has also not been done.

Further differential relay could not have been burnt, due to the flow of differential current while there was a heavy internal fault. Finally it was observed that this was due to opening of links, leading to open circuit of secondary terminal of current transformer and consequently a very high voltage resulting in burning of the differential relay itself.

This would have been avoided, if the individual differential relay and the differential protective scheme as whole are annually tested. During this test all the terminal connections starting from the secondary terminals of the current transformers on both sides and the terminal connections at the relay are to be tightened as there may be working loose.

It is therefore instructed that Chief Engineers/Distribution may issue suitable instructions to the Superintending Engineers/O&M and Executive Engineers/MRT to conduct the tests on individual differential relay and the differential protective scheme as a whole and ensure the tightness of the terminal connections. The Superintending Engineers of the circles must review that the differential relay tests are conducted periodically.

Further Chief Engineers/Distribution are requested to arrange to provide a digital/Milli Ampere tong test ammeter to MRT so that after completion of tests on differential relay scheme, the spill currents may be measured on loading the power transformer without disturbing the terminal connections for insertion of the ordinary ammeter in the circuits as now in vogue in many of the O&M circles. This tong test milli ammeter not only measures the spill current on loading of the power transformer without disturbing the terminal connections of relay but also eliminates the wrong connection after measuring the spill current and after removing the inserted ammeter and this arrangement will be tedious one and time consuming. Booklet on "practical guide to Differential protective system to Power Transformers" printed and ready for issue at TNEB printing press may be distributed among the Executive Engineers/MRT.

The Executive Engineers/MRT may also be instructed to conduct the annual maintenance on the power transformers as per the circular memo cited under reference without fail.

C. Andrew Tennyson Abraham,
Member (Distribution)

* * *

MEMO.NO:CE/TR/SE/TR/EE/400KV/A2/F.Cap/D.448/2000, (Tech.Br.), Dt.18.12.2000.

Sub: Operation of OLTC in conjunction with capacitor banks - Instructions - Issued.

In most of the substations installed with capacitor banks, the operation of cut in or cut off capacitor bank or banks in conjunction with the operation of OLTC is not proper causing two ill effects.

- 1) Losses increased during leading PF.
- 2) Very high voltages at light loads. Consequently saturation of magnetic cores of power/distribution transformers.

The operator on duty, in the absence of approved operating instructions are carrying out operations on the capacitor banks and/or OLTC in an haphazard manner.

The Executive Engineers/O&M incharge of the 110KV non grid substation and the Superintending Engineers/Operation in respect of 230/110KV Auto substation are the competent authority to draft and approve the operating instruction. For want of adequate knowledge about the capacitors, they are not in a position to approve the proper operating instructions. It is therefore necessary to give a brief details as below for drafting the operating instructions for the capacitor banks and OLTC.

SHUNT CAPACITORS:

For an acceptable voltage drop at maximum load conditions, shunt capacitors sited at the end of transmission or primary distribution lines will enable an increased KW load to be carried without up-rating the line. Shunt capacitors therefore offer relatively quick solutions to peak load bottlenecks or postpone the necessity for electricity distribution system reinforcement in a particular locality. Consider a single radial line (The circuit is shown in figure A)

It is assumed that the receiving end voltage (E) is to be kept constant by varying the source voltage. The following equation can be written.

$$E_S^2 = (E_R \cos \phi + IR)^2 + (E_R \sin \phi + IX)^2$$

Where the suffixes S and R relate to the sending and receiving ends respectively.

$$\text{And the line losses} = 3 \times I^2 R \times 10^{-3} \text{ KW.}$$

$$= \frac{(KW)}{R} \times \frac{R}{\cos^2 \phi} \times 10^{-3} \text{ KW}$$

From this it can be seen that the line loss decreases until it reaches the ultimate value of

$$\left(\frac{(KW)^2}{R} \right) \text{ KW, at unity power factor}$$

$$\left(\frac{E_R^2}{R} \right)$$

The effect of leading power factor is of course, to increase the losses since the value of $\cos \phi$ diminishes. If the power factor becomes more leading, E_S will decrease and will become less than E_R

If the voltage variation exceeds permissible limits this could lead to transformers receiving abnormally high voltages and producing harmonic currents due to over saturation of the magnetic cores. Also electrical apparatus designed to operate within close voltage tolerance would be affected adversely.

For these reasons the receiving end voltage should normally not exceed the sending-end voltage by more than 6% i.e. the power factor of the load should not become appreciably leading. Hence the KVAR rating of the shunt capacitor banks must be regulated either by some form of automatic switching or by transformer tap changing at periods of light loads.

OVER CORRECTION BY CAPACITORS AT LIGHT LOADS :

All the Capacitor Banks are not allowed to remain in circuit during light load conditions when power factor correction exceeds the unity P.F. If all the banks are allowed to remain in circuit during the light load conditions, the power factor will become leading. In that case, there will be two effects.

- (1) the losses will be increased.
- (2) leading PF will boost up the system Voltage which has already risen due to light load condition.

WHEN P.F. CORRECTION IS UPTO LAGGING/UNITY DURING FULL LOAD CONDITION - Refer Fig - 1

$$\text{Losses} = (I_L^1)^2 R$$

WHEN PF CORRECTION IS LEADING DURING LIGHT LOAD CONDITION

(Load current I_{L1} reduces to I_{L2})

Refer Fig - 2

Since I_{L2}^1 is greater than I_{L1}^1

$I_{L2}^2 R$ loss due to increased current of I_{L2}^1 is also increased.

$$\text{Losses} = (I_L^1)^2 R$$

The impression that leading PF will do good, is totally wrong, but leading PF brings more losses. -

Refer - Fig-3

Due to PF correction upto lagging/unity, Receiving end voltage at full load condutions increases. (Fig-3)

This is required at full load conditions.

DURING LIGHT LOAD CONDITIONS, THE RECEIVING END VOLTAGE WILL BE CONSIDERABLY INCRSSEASED, WITHOUT CAPACITORS CONNECTED. - Refer Fig -4.

WITH CAPACITORS CONNECTED - Refer Fig - 5

V is more than Es

OPERATION OF OLTC INCONJUNCTION WITH CAPACITORS BANKS:

In short, power factor of bus should not be leading, but around 0.9 lag and voltage may be upto 110% of 11KV. Within these two constraints, capacitor banks and OLTC operation should be carried out. When the P.F. is below 0.95, but voltage is exceeding 100% the operation of OLTC to bring the voltage within limits is a must and the Capacitor banks may be left in service unless the P.F. is near unity. This is only a general guideline. Depending upon the field conditions, the field officers should prepare the operating instructions and made available to the operator.

Whenever additional/enhancement of power transformer is carried out, the operating instruction in respect of capacitor banks requires revision.

MANUAL SWITCHING OF CAPACITOR BANKS :

The loads on the Sub-station are generally highly variable. The loading of lines and transformers and voltage conditions at these sub-stations assume greater importance under maximum load conditions. It is under these conditions that improvement in the Power Factor and boosting of voltage are needed. The ratings of the capacitor banks used in these sub-stations are determined for such load conditions. As the load decreases, the system voltage improves. If the capacitor bank or banks are allowed to stay in, excessive voltage may appear on the busbars. It therefore becomes necessary to switch OFF part or whole of the capacitor banks. In our sub-stations, the no. of banks may not be more than 4 nos. and the switching operations are not frequent, this duty may be performed by the sub-station operator as per the approved operating instructions.

In short, the operation of capacitor banks and OLTC should be within two constraints.

- (1) P.F. should not exceed unity.
- (2) Voltage of the bus should not exceed. 105% of the system.

Voltage : Keeping above 110% of the system voltage in order to raise the tail end voltage is harmful. Remedy is to improve the network by running additional feeders, or with short length feeders and or by replacing the existing conductor with bigger size conductor.

To ensure this, P.F. meter (preferably a digital one) on the panel is a must to, regulate the PF and the Voltmeter on the 11KV or 110KV bus as the case may be, is to be provided.

Affix the following LABELS on the Capacitor enclosure at prominent places.

- a) Switch 'OFF' if
 - the main supply fails
 - Bus Voltage exceeds 110%
 - P.F. exceeds 0.95 lag
 - Current falls below 20% of normal
- b) - Do not switch 'ON' within Five (5) minutes after Switched 'OFF'
- c) Do not enter the Capacitor yard within (5) minutes after Switched 'OFF'.
- d) Discharge the Capacitor after Switch 'OFF' if required for maintenance.

These are only general guidelines. The field officers incharge of substations are requested to ensure that proper approved operating instructions are available in respect of capacitor banks and OLTC.

Receipt of the memo may be acknowledged to Superintending Engineer/Transmission.

Encl :- 3 Sheets.

C. Andrew Tennyson Abraham,
Member (Distribution)

RADIAL TRANSMISSION SYSTEM — EFFECT OF IMPROVED P. F.

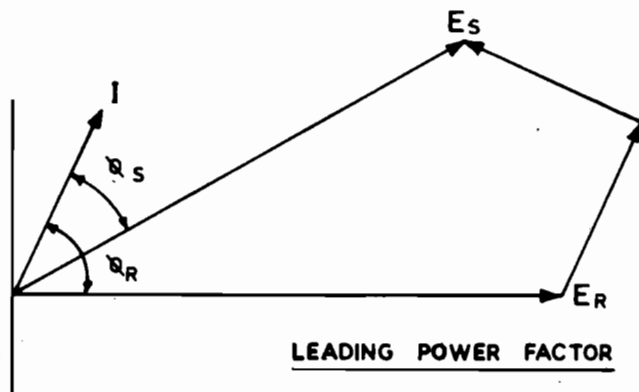
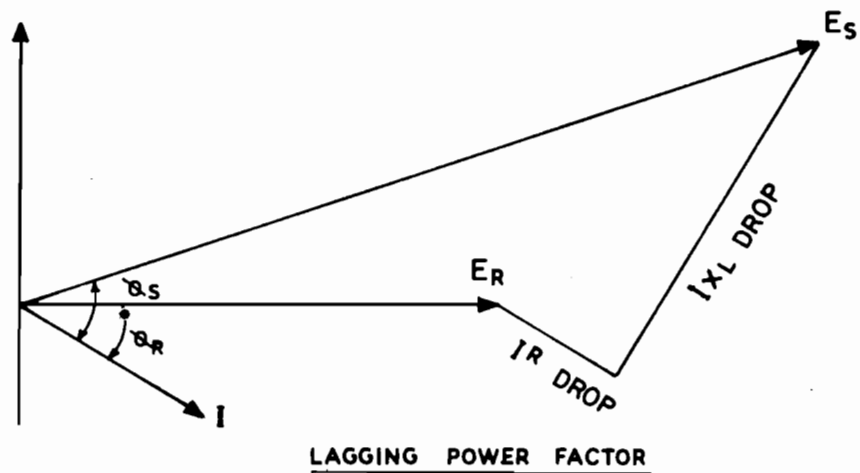
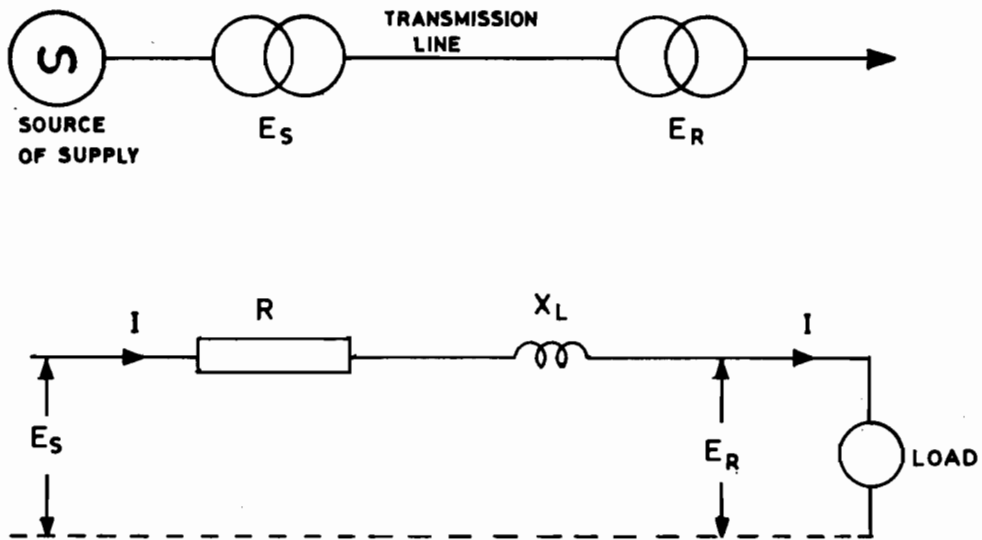
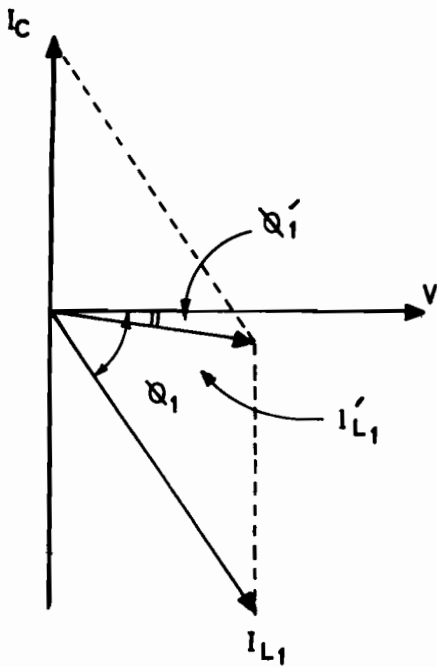
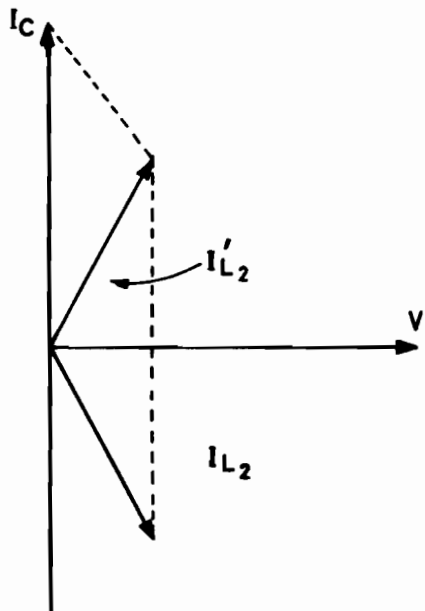


FIG. A



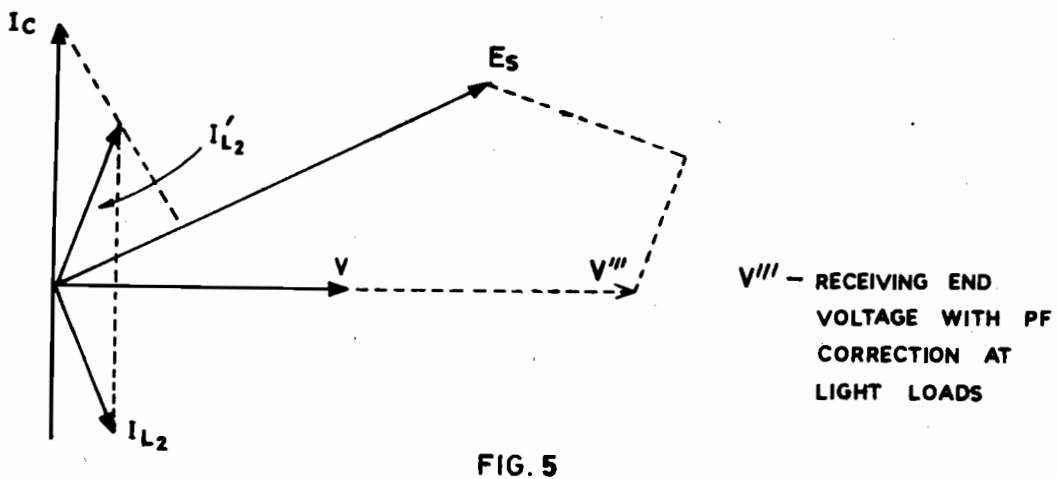
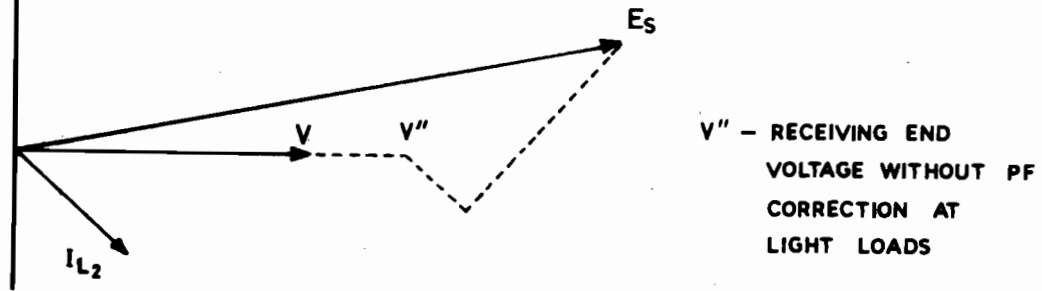
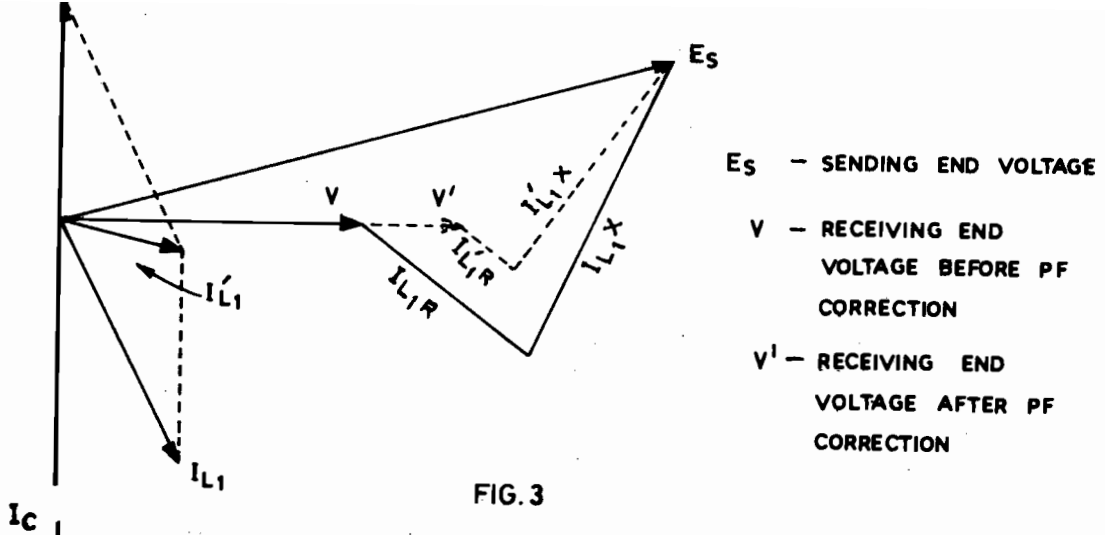
- V — SYSTEM VOLTAGE
- I_{L1} — HIGHLY LAGGING LOAD CURRENT WITHOUT APPLICATION OF CAPACITORS
- I_C — LEADING CURRENT DRAWN BY THE CAPACITORS
- I'_{L1} — LOAD CURRENT APPROACHING UNITY AFTER THE APPLICATION OF CAPACITORS
- ϕ_1 — UNCORRECTED POWER FACTOR
- ϕ'_1 — CORRECTED POWER FACTOR
- $(I_{L1})^2 R$ — LOSSES BEFORE PF CORRECTION
- $(I'_{L1})^2 R$ — LOSSES AFTER PF CORRECTION

FIG. 1



- I_{L2} — VERY HIGHLY LAGGING CURRENT
- I'_{L2} — VERY HIGH LEADING CURRENT
- $(I_{L2})^2 R$ — LOSSES

FIG. 2



Electricity - Supply to H.T. applications - Simplified procedures - Issued.

Permanent B.P. Ch.No.247

Technical Branch

Dated 20.12.2000,
Margazhi 5,
Vikrama Aandu,
Thiruvalluvar Aandu 2031

Proceedings:-

H.T. consumer contribute to a significant portion of the revenue of the Tamil Nadu Electricity Board. Hence, it is necessary to expedite H.T. connections. This will also lead to rapid industrialisation of the State. In order to give early supply to the prospective H.T. applicants, the present procedure followed in effecting supply requires a thorough change. Now, the Board is not in a position to positively indicate the date on which the consumer can avail supply, which causes anxiety and dissatisfaction among the prospective H.T. consumers.

Today when customer's satisfaction is the predominant consideration/motto of any service organisation, Tamil Nadu Electricity Board cannot lag behind. Customer service has to be improved by cutting down the lead time and eliminating certain activities which do not add value. Tamil Nadu Electricity Board should also change to meet the customer aspiration and demands.

In view of the above, the Tamil Nadu Electricity Board, has modified the procedure for H.T. service connection with a definite time frame for extension of supply to H.T. applications.

1. H.T. applications in the prescribed format alongwith necessary documents shall be received by Superintending Engineers/Elecy.Distr. Circles. If the application is found in order, registration fee along with earnest money deposit are to be collected. Only after collecting the above amount, the application shall be registered and a computer printout with relevant details should be given to the applicant.
2. After registration of the application, an estimate should be got sanctioned within a maximum period of fifteen days if the sanctioning authority is Superintending Engineer/Electricity Distribution Circles or Chief Engineers/Distribution or within thirty days if sanction for estimate is to be accorded by the Chairman. The Superintending Engineers on receipt of the sanction, should serve a notice to the H.T. applicant advising him to remit the amount chargeable to the consumer development charges, meter caution deposit etc. and execute the agreement within 30 days from the date of the notice. Along with this notice a draft agreement with instructions to execute shall be sent, the probable date of effecting supply shall be incorporated in the above notice.
3. The time frame for effecting of supply from the date of payment of all charges and execution of agreement is as follows:-

(a) Mere Service Connection (Additional demand in existing service)	: 15 days
(b) Extension of H.T. line	: 30 days
(c) Improvements to H.T. line	: 45 days
(d) Extension of H.T. line plus improvement to H.T. line	: 60 days
(e) Enhancement of power transformer capacity/additional transformer erection	: 120 days

The agreement should be executed by the Superintending Engineer with the applicant immediately on the day of remitting of all charges.

4. Time extension for payment of all charges shall not be allowed.
5. All efforts shall be taken by Superintending Engineer concerned to complete the Board's works within the time schedule.
6. On completion of Board's work, a notice of supply availability should be issued to the consumer incorporating that the monthly minimum charges will be levied from the date of issue of notice for a period of 3 months. If the applicant fails to avail supply within three months, a further 3 months extension can be granted by Chief Engineer/Distribution after collecting the monthly minimum for the extended 3 months period in advance. On the expiry of this three months period, (after 6 months of Board's readiness) the application shall be cancelled and agreement terminated forfeiting all the amounts remitted except meter caution deposit. Special Guarantee Clauses amount if any shall also be recovered.
7. Regarding those applicants who backout after registration but before payment of development charges, etc. the application shall be cancelled and E.M.D. forfeited.
8. If the applicant backsout, after payment of all charges and execution of agreement, the application shall be cancelled and all amount except Meter Caution Deposit forfeited.
9. Superintending Engineers of Elecy. Distr.Circles are requested to follow the instructions and adhere to the time schedule in effecting supply to promote consumer satisfaction and thereby augment Board's revenue.

The above procedure will come into effect from 1.1.2001.

R. Poornalingam,
Chairman.

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Proper testing of Power Transformer - Reg. --- 82

Transformer oil - Reclamation plants - Reg. --- 66

TRANSMISSION LINE AND S.S.:

Specification - T.925 - Supply of 1450 Kms. 'ZEBRA' ACSR Conductor - Proposal for placing orders - Appd. . --- 54

Specification - T.926 - Supply of 1250 Kms. 'PANTHER' ACSR Conductor - Proposal for placing orders - Approved. --- 54

Specification - T.933 - Fabrication, Supply, Erection and Commissioning of 210 Kms. of 230 KV Single Circuit Transmission Line in respect of 230 KV Missing Link in the EHT Grid - Proposal for placing orders - Approval. --- 48

EMPLOYEES' SPL.P.F.-CUM-GRATUITY SCHEME:

Payment of interest on the employees subscription beyond 148th instalment Revised orders - Issued. --- 51

ESTABLISHMENT:**APPOINTMENT AND POSTINGS:**

Creation of one post of Officer on Spl.Duty in the grade of Addl.C.E. to complete the ongoing Computerisation works for Inventory Management - Appointment of Thiru R.K. Ayyadurai, Addl.C.E.(Retd.) as Officer on Spl.Duty - Ordered. --- 3

CHAIRMAN'S APPRECIATION:

Excellent work done in re-erection of 3 Nos. 110 KV towers which were collapsed on 6.12.2000 due to cyclone near the village Periapet - Reg. --- 33

CHANGE OF POST :

Trading - Change of nomenclature of post of Chief Instructors and Assistant Chief Instructors - Ordered. --- 42

CREATION OF ONE FLYING SQUAD TO DETECT THE THEFT OF ENERGY:

Orders - Issued and modification orders - Issued thereon (2 Nos.) ---34,43

Granting of Permission to Class I & II Officers of the Board to drive Board's Vehicle at the time of emergency - Orders - Issued. --- 43

ESTABLISHMENT:- (CONTD.)**PROMOTION:**

System of conducting Examination for promotion to the post of all Class I Officers of Non-Techl. upto the level of Under Secretary - Ordered.

--- 2

REVISION OF PAY SCALES:

From 1.12.96 to 31.3.98 - Arrears credited to GPF - Payment to Legal heirs - Certain clarification - Issued.

--- 42

Wage and Workload Revision 2000 - Wage Revision Committee to hold negotiations with Unions/Associations - Formation of Working Groups - Ordered.

--- 1

HEALTH FUND SCHEME:

Applications seeking financial assistance under Health Fund Scheme - Delay in sending them - Fixing responsibility - Instructed

--- 56

HOLIDAYS:

Holidays for Employees of the T.N.E.B. for calendar year 2001:- Orders - Issued.

---- 39

LOANS:

கடன்கள் மற்றும் முன்பணங்கள் -

பணியாளரின் வைப்பு நிதித் தொகையிலிருந்து வைப்பு நிதிக் கடன் வழங்கிட - வீட்டிற்கு எடுத்துச் செல்லும் சம்பள விகிதம் - தெளிவுரை கோருதல் - சம்பந்தமாக.

--- 33

MEDICAL ATTENDANCE:

Reimbursement of Medical claims:-

Medical Charges - Ceiling limit - Orders issued - Clarification - Issued.

--- 52

OFFICE PROCEDURE:

தமிழ் ஆட்சி மொழிச் செயலாக்க நடவடிக்கை :-

தமிழ் வளர்ச்சி - உடல் நல நிதித்திட்டத்திற்கான கருத்துருவினை சரிபார்க்கும் பட்டியலில் ஆங்கிலப் படிவம் - தமிழாக்கம். செய்து அனுப்புதல் - தொடர்பாக

--- 43

PENSION:**D.A. TO PENSIONERS AND FAMILY PENSIONERS:**

Revised rates from 1.7.2000 - Ordered.

--- 49

RECRUITMENT:**INTERNAL SELECTION:**

Class III Service - Filling up of vacancies of A.E./Elecl. by internal selection Conducting of Examination - Ordered

--- 5

REGULATIONS:**DISCIPLINE AND APPEAL REGULATIONS:-**

Vigilance Cases - Charges framed under Regulation 8(a) and 8(b) - Instructed.

--- 39

SERVICE REGULATIONS:

Placing of one C.H.D'man at the top of the panel for promotion to the post of AEE/Elecl. and AEE/Civil - Amendment to Regulation 92 - Ordered.

--- 41

REGULATIONS:- (CONTD.)**TENDER REGULATIONS:**

Exemption from payment of EMD/SD to SSI Units and State Public Sector Undertakings - Consolidated orders issued by Govt. of Tamil Nadu - Amendment to Clauses 10.2, 13.1(i) and Note under Clause 13.2 of the T.Rs., 1991 - Amendment No.57 to the T.Rs., 1991 - Issued.

— 3

RESTRICTION & CONTROL:

Electricity - Purchase of materials/execution of works - Restriction of advance payment - Reg.

— 49

REWARDS:**CASH REWARD:**

Theft of Electricity and other malpractices furnishing of information - Detection - Payment of Cash Reward - Enhancement - Orders issued.

— 50

Celebration of Board's Day - Medal Schemes for employees of TNEB - Selection of employees for awarding TNEB Medal for Distinguished Service for the year 1999 - Ordered.

— 34

Celebration of Board's Day - Medal Schemes for employees of TNEB - Selection of employees for awarding "Chairman's Power Medal" for Meritorious Service for the year 1998 - Ordered. (2 Orders).

—36,37

STORES:**PURCHASE ORDERS:**

Issue of Form XVII at H.Qrs. to the supplier for H.Qrs. P.Os. instead of at all consignee Circles for the same P.O./Supplier - Instructed.

— 64

TRAINING:**GENERATION WING:**

Intensive three months Training to newly joining A.Es. - Approved.

— 57

HONORARIUM:

Enhancement of honorarium amount - Ordered.

— 55

OTHER THAN GENERATION WING:

Intensive three months Training to newly joining A.Es. - Approved.

— 60

THERMAL TRAINING:

Lecture Classes conducted by Board's Engineers at T.P.S. - Sanction of honorarium and supply of snacks etc. - Proposal Approved - Amendment Orders - Issued.

— 55