



THIRTEENTH KERALA LEGISLATIVE ASSEMBLY

**COMMITTEE
ON
PUBLIC UNDERTAKINGS
(2014-2016)**

**NINETY SEVENTH REPORT
(Presented on 3rd December, 2015)**

**SECRETARIAT OF THE KERALA LEGISLATURE
THIRUVANANTHAPURAM
2015**

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on

**The Action Taken by Government on the Recommendations contained in the
Seventy Third Report of the Committee on Public Undertakings (2008-2011)
relating to Kerala State Electricity Board based on the Report of the
Comptroller and Auditor General of India for the years ended
31st March 2003 and 31st March 2004 (Commercial)**

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Shri P. S. Selvarajan, Under Secretary.

INTRODUCTION

I, the Chairman, Committee on Public Undertakings having been authorised by the Committee to present the Report on their behalf, present this Ninety Seventh Report on the Action Taken by Government on the Recommendations contained in the Seventy Third Report of the Committee on Public Undertakings (2008-2011) on the working of the Kerala State Electricity Board based on the Report of the Comptroller and Auditor General of India for the years ended 31st March, 2003 and 31st March, 2004 (Commercial).

The Statement of Action Taken by the Government included in this Report were considered by the Committee constituted for the year 2014-2016.

This Report was considered and approved by the Committee at the meeting held on 28-10-2015.

The Committee place on record their appreciation of the assistance rendered to them by the Accountant General (Audit) Kerala in the examination of the statements included in this Report.

Thiruvananthapuram,
3rd December, 2015.

K. N. A. KHADER,
Chairman,
Committee on Public Undertakings.

REPORT

The Report deals with the Action Taken by Government on the recommendations contained in the Seventy Third Report of the Committee on Public Undertakings (2008-2011) relating to Kerala State Electricity Board, based on the report of the Comptroller and Auditor General of India for the years ended 31st March, 2003 and 31st March, 2004 (Commercial).

The Seventy Third Report of the Committee on Public Undertakings (2008-2011) was presented to the house on 30th June 2009. The Report contained 7 recommendations and the Government furnished reply to all the recommendations. The Committee (2014-2016) considered and approved the replies received from Government at its meetings held on 14-1-2015 and 24-6-2015 without any remarks.

REPLY FURNISHED BY GOVERNMENT ON THE RECOMMENDATIONS OF THE COMMITTEE WHICH HAS BEEN ACCEPTED BY THE COMMITTEE WITHOUT REMARKS

Sl. No.	Para No.	Department concerned	Conclusions/Recommendations	Action Taken by Government
1	2	3	4	5
1	2	Power	<p>The Committee finds that KSEB had incurred a loss of Rs. 8.79 crore by deviating from prescribed Government guidelines and helped a private entrepreneur, Indsil Electrosmelts to gain an equal amount by bearing construction cost of 12.477 km. of transmission line. The Committee points out that if the cost was borne by KSEB as a promotional measure, why Government had initiated action for recovery of the amount instead of informing Audit of the reason, when it was evident that the money could not be recovered due to incorporation</p>	<p>The decision to construct the transmission line beyond four km., was taken by the Government as a promotional measure vide Letter No. 10529/B/1/94/PD. Accordingly an agreement was executed incorporating the condition that "the transmission line required for transferring power from the power house to the nearest grid substation and/other locations as suggested by KSEB up to a length of 4 (four) km. shall be built by the KSEB at its cost as a promotional measure for encouraging the private entrepreneurs for generation of power"</p> <p>After completing the construction the Board requested the company (Indsil Electrosmelts Ltd.) to remit the total cost of construction of the transmission line against which the company filed writ petition No. 15167 of 2006.</p> <p>Later vide Letter No. 5560/B/1/99/PD. dated 25-6-2005, the Government accorded concurrence to recover the cost of construction of 12.477 km. of transmission line from the company. Government consented to recover the</p>

	<p>amount from the company on the ground that the agreement executed by the KSEB and the company was against the Government Order No. G.O. (Ms.) No. 23/90/PD, dated 7-12-1990. The provision regarding bearing the cost of transmission line beyond 4 kms. by the KSEB was incorporated in the agreement on the basis of the minutes of the meeting held on 8-4-1994 and against the provisions of the guidelines issued by Government vide G.O. dated 7-12-1990. As the Government Order dated 7-12-1990 forms part of the agreement, the provision of cost of transmission line is binding on both the parties viz. KSEB and the company and as such the decision to recover the cost of transmission line beyond 4 kms. is in order. But M/s Indsil Electrosmeits got stay order from the Hon'ble High Court. The writ petition was allowed in favour of the company. Two writ appeals were filed against this judgment i.e. WA 52/10 wherein KSEB is the appellant & WA 795/10 wherein State of Kerala & Deputy Tahasildar (RR), Udumbanchola, Idukki are the appellant. Both writ appeals are clubbed together and pending for the consideration of Hon'ble High Court of Kerala. The concurrence for the recovery proceedings is given by this department after due consultation with Law Department. Further action will be taken on the basis of the Court Order.</p>
<p>of the provision that the Board would bear construction cost of transmission line beyond 4 km. in the agreement and desires to be informed of the reason for this. The Committee therefore recommends that in future strict vigilance should be taken in such matters.</p>	

1	2	3	4	5
2	7	Industries	<p>The Committee finds that the Board has purchased the meters at an exorbitant rate of Rs. 900.76 per meter without considering the market price at the time which was much lower, resulting in loss of lakhs of rupees to the Board. The Committee expresses its displeasure over the remarks of the witness that requirements of meters per month given by the Accountant General as 16,700 was not correct, as Audit had calculated on the basis of records provided by KSEB. The Committee is shocked to know that even today when information is only a click away, such a major undertaking with huge investment has no system to ascertain the present market prices of the materials it</p>	<p>The physical verification of stock is made up to the level of Sub Regional Store on annual basis and has been done during the years 2006-07, 2007-08, 2008-09. Now Board is implementing a project named "Optimising Supply Chain Management (SCM) in K.S.E. Board" to identify the supply chain needs of K.S.E. Board and to optimize it. The introduction of the new system is providing information about the material stock position up to the section office level to the Board Management, which will be utilized for taking decisions on procurement. The Distribution Purchase Plan for the Year 2009-10 was approved by Full Board on 13-5-2009.</p>

requires and only takes into account the tender prices. Also the Board is functioning without proper estimate, without regular stock verification and without a well defined purchase plan, Such arbitrariness is in fact causing huge financial loss to the Board. The Committee finds that KSEB did not have a procurement system and hence had to resort to hasty purchase resulting in loss. Therefore, the Committee observes serious lapse on the part of the Board and recommends that KSEB should evolve a system for effective planning and advance purchase of the items it will need in the succeeding year. In no case should any item be purchased at prices exceeding current market rates.

1	2	3	4	5
			<p>The Committee desires to be informed whether stock verification has been done in all units of KSEB during the years 2006-07, 2007-08 and 2008-09, and whether the purchase plan for 2009-10 has been prepared and approved and if yes, the date of approval.</p>	
3	11	Industries	<p>The Committee accepts KSEB's contention that purchase from BHEL ensured good quality, but desires to know whether quality check was done before including Bihar Industrial Corporation in the tender, and what the result of the test was.</p>	<p>For 11 KV Pin Insulators, no quality test is done before Pre-qualification and the quality test is done only before commencement of supply. Since the tender invited during June 2000 for the purchase of 11 KV Pin Insulators was cancelled, there was no need to conduct quality check of 11 KV Pin Insulators supplied by Bihar Industrial Corporation.</p>
4	15	..	<p>The Committee finds that KSEB is of the conviction that it is empowered to make its own rules and regulations which may not be in line with</p>	<p>Being an industrial establishment and the employees are covered by the Industrial Disputes Act 1947, the principle for pay and allowances and other service conditions in KSEB are governed by Long-term settlements which are bilateral agreements entered into between the Board and</p>

	<p>the recognized Trade Unions. Accordingly the payment of Bonus, Incentives, Ex-gratia, etc. are also effected as per the terms of the settlements with the Unions.</p> <p>The Unions were extremely reluctant to compromise the benefits already enjoyed by them for the past many years and expressed their strong protest including work stoppages with threat of strike. Any sudden stoppage of the benefits already enjoyed by the employees altogether at such instance may result in industrial unrest and in order to ensure continued and peaceful functioning of the power sector, KSEB was forced to continue the payment of ex-gratia and incentive due to strong pressure from the Trade Unions during 1999-2000 and 2000-2001. However no payment by way of Ex-gratia/Incentive has been effected since 2001-2002 due to financial stringency of Board, though there have been very strong protests from the Unions.</p> <p>Though KSEB had argued that they had taken up the issue with the Government as early as on 24-9-2003, but Government ratification has not been received. On perusing their comment, it is seen that the letter dated 24-9-2003 is only a reply of the Board to the draft Para. Moreover it may be noted that the disposal leading to Government letter refereed therein is seen destroyed.</p>
	<p>Government rules. Hence even after the irregular payment of ex-gratia and incentives was pointed out by Audit in July 1999, the Board continued the payment till 2000-2001. The Committee desires to be informed why power and Finance Departments remained silent towards this irregularity and grave violation of Government guidelines, without even obtaining Government ratification. Since Government guidelines specifically state that the Chief Executives of Public Sector Undertakings would be personally liable for over payments in any other name or form, in violation of Government guidelines. The Committee may be informed of the steps taken by Government in this case.</p>

1	2		4	5
				<p>Hence at this distance of time Government is not in a position to trace out the documents substantiating Government action in this regard and as such Government is unable to process the case further.</p> <p>Moreover the Board has reported that the practice of paying ex-gratia & incentive was stopped from 2001-2002 onwards and the issue is no longer in practice at present.</p> <p>Government will be more careful in the future and will ensure that the recurrence of such incidents will be prevented. The Committee may therefore be requested to take a lenient view to accept the above explanation and to drop further action in this regard.</p>
5	17	Industries	<p>The Committee finds that the Board directly approached the subcontractor, instead of dealing with BHEL with whom the Board had signed a contract and noticed the omission only after placing the orders. This shows utter carelessness on the part of the KSEB. The Committee is not satisfied with</p>	<p>M/s BHEL has replenished the spares purchased and utilized against valid spare claims (Claims raised for free supply of spares against failure occurred up to 12000 hrs. of operation of DG sets and auxiliaries). M/s BHEL has supplied more than Rupees Four Crore Ninety Six Lakh worth of spares to KSEB, free of cost against spare claims and as shown below, As per the contract the Customs Duty is to be met by KSEB.</p>

Spares supplied free of cost			
Sl. No.	Description	Value of Spares Excluding Customs Duty	Remarks
1	2	3	4
1	1st lot of Cost Insurance & Freight (CIF) spares supplied by BHEL from WARTSILA, Finland.	81,98,019.00	KSEB paid customs duty amounting to ₹ 40,69,628
2	2nd lot of CIF spares supplied by BHEL from WARTSILA, Finland	2,25,73,871.43	KSEB paid Customs Duty for spares worth Euro ₹ 4,00,000
3	Turbo charger spares imported from Switzerland including repair charges	59,99,495.20	Customs duty was met by BHEL/WARTSILA as the spares were sourced from ABB, India.

the reply of the Board that BHEL was bound to supply spare parts beyond 12000 hours of operation of the plant, but 12000 hours was not exceeded when audit took place. The Committee desires to be furnished with the details of the items supplied by BHEL, free of cost, for this project and recommends that the Board has to develop an effective system for procurement of spares.

1	2	3	4	5
1				
4	Modified bellows and exhaust pipes, screws etc. supplied by WARTSILA, Finland		62,60,000.00	KSEB paid customs duty for spares worth Euro ₹ 1,01,135.90
5	Value of spares imported from Finland and supplied by WARTSILA, India		42,62,723.00	Customs duty was met by BHEL/WARTSILA
6	Value of spares not supplied by BHEL but cost reimbursed by them		4,64,935.00	
7	Value of spares supplied as goodwill. [BHEL/WARTSILA, gave the balance commissioning spares available with them after commissioning as goodwill to K.S.E. Board]		19,27,069.00	Customs duty was met by BHEL/WARTSILA
	Total		4,96,86,112.63	

			<p>Apart from these, M/s BHEL/WARTSILA had either supplied items (vide annexure I) or repaired (vide annexure III) all the items that failed during the one year warranty period. The monetary value of the same cannot be ascertained as the same was not supplied as warranty spares supplied free of cost without any value shown for each item.</p>
6	20	Industries	<p>The letter of credit was opened for ₹ 60 crore for purchase of power from NTPC after high-level discussions with NTPC officials on 14-6-2002 and 21-6-2002 anticipating generation of more hydel power. Also expected a tariff hike and release of aid from Government of Kerala for enhancement of LC limit if needed within 6 months. But due to poor monsoon, Board was forced to purchase more thermal power especially from Kayamkulam Station. Neither the expected tariff hike nor the release of aid from Government of Kerala had materialized. Board was struggling hard to clear off the dues of every month in order to avoid the dire consequences in pursuance of the terms of Tripartite Agreement including the reduction in the supply of electricity. Had there been any source for enhancing LC amount for effecting payment for excess drawal, it would have been decided, accordingly. It is concluded that the stringent financial position of the Board forced the Board to limit the LC to ₹ 60 crore. At the same time the commitment as a public utility forced the Board to purchase more thermal power which caused additional liability.</p>
		<p>The Committee finds that not enhancing the limit of letter of credit (LC) for the period from July 2002 to June 2003, based on the wrong assumption that the power to be drawn from NTPC was indeed a lapse. Though paucity of funds to meet urgent requirements is cited by KSEB as the reason for not enhancing LC limit, it had prudently enhanced the limit from ₹ 60 crore to ₹ 81 crore in June 2003, in spite of severe liquidity problems. This would have been possible in June 2002 also.</p>	

1				5
				<p>KSF Board was not in a position to enhance LC limit from ₹ 42 crore to ₹ 85 crore with effect from 1-7-2002 though NTPC had requested to do so due to the following reasons:</p> <p>The Board also anticipated a reduction in Power Purchase during the ensuing months in the hope that good rainfall would occur during the monsoon. However contrary to expectations both the monsoons failed during the year. At that point of time the Board was finding it extremely difficult to meet even committed payments. Even pensioners claims could not be paid even after ten to fifteen months after their retirement. Further the Provident Fund loans of employees also were pending for months together.</p> <p>In this connection it may be pointed out that the request for credit from field units on various heads dating back to 1/2001 was pending. Further land acquisition claims were also pending from 1/2001. Contractors' bills and PF Loan to staff were pending from 12/2001. Even as on 14-7-2003 a total claim of ₹ 97.63 crore was pending release to various field officers due to paucity of funds.</p> <p>Regarding operation of LC on the due dates, it may be noted that Banks would operate LC only when funds for meeting the LC commitments are provided in advance. As may be clear from the above only paucity of funds</p>

prevented the Board from opening and operating the LC for the entire bill amount. Even the amount required for meeting the balance bills over and above LC pertaining to NTPC was paid only after borrowing at 13% from Banks. As Audit is Aware, for enhancement of LC the Bank has to sanction non-fund based limit out of overall exposure limit. Further Board has to keep margin money in the form of FD to establish/enhance the LC in addition to monthly LC charges, working out to crores of rupees.

The following table gives the details of payments made against bills for each of the month from 6/2002 of NTPC:

Month	Bill Amount	Payments made during the LC	Arrear	Amount & Date of Payments of Arrear
1	2	3	4	5
6/2002	874402786	600000000	263953501	100000000 TC 31-8-2002 163953501 SBT 30-9-2002
7/2002	885954598	600000000	275536580	275536580 SBT 30-10-2002
8/2002	944623637	600000000	334188260	334188260 SBT 30-11-2002
9/2002	1029713865	600000000	419213865	419213865 SBT 30-12-2002

		5				
1	2	3	4	5	6	
10/2002	1071642284	600000000	461142284	461142284	461142284 SBT 30-1-2003	
11/2002	971550063	600000000	361050063	361050063	361050063 SBT 28-2-2003	
12/2002	11116679087	600000000	504410242	504410242	504410242 SBT 31-3-2003	
1/2003	976406864	600000000	342794550	342794550	342794550 SBT 30-4-2003	
2/2003	802810563	600000000	190734638	190734638	190734638 SBT 31-5-2003	
3/2003	898684415	600000000	269404300	269404300	269404300 SBT 30-6-2003	
4/2003	735284163	600000000	102609521	102609521	102609521 SBT 7-7-2003	

From the table it is clear that payments could not be made promptly. Further even the balance amount could be paid only after a gap of about 90 days on an average, failing which Board have to face reduction in supply of much cheaper central pool power. Cut in central plan assistance to State Government which would be diverted to pay the NTPC dues as contemplated in the Tripartite agreement. Board was reeling under severe financial crisis and was not able even to meet the NTPC dues on 90th day of presentation of bill at that time, while Audit had

			<p>commented lapse of non enhancement of LC limit to 81 crore for meeting the power purchase commitment 'on sight' of presentation of LC documents by NTPC.</p> <p>It may please be noted that compared to the previous year, due to failure of monsoon the cost of purchase and generation of power had increased during 2002-03 by ₹ 502.15 crore which almost represented the additional cost in this regard due to failure of monsoon. Because of the huge additional commitment the ways and means position was badly affected.</p> <p>In the Audit Report it has been stated that the LC limit was enhanced to ₹ 81 crore in June 2003 when there was severe liquidity problem. It is submitted that this was due to the fact that during March 2003 the Government of Kerala had released an amount of ₹ 90 crore which enabled the Board to clear the major portion of NTPC dues.</p>
7	21.	Industries	<p>In the case of the loan from Rural Electrification Corporation Limited (REC), the Committee does not agree with the Board's remarks that at that time it was reeling under severe financial constraints and was not in a position to mobilize funds by</p> <p>The Assistant General Manager, Canara Bank, Cantonment Branch, Thiruvananthapuram informed the Financial Adviser, Kerala State Electricity Board vide Letter No. 28: CR:333 : 2001:RPS dated 27-6-2001 (copy enclosed as Annexure III) that they had recommended to their sanctioning authority for sanctioning a temporary Over Draft of ₹ 50 crore as requested by the Board. This was not a sanction letter of the loan of ₹ 50 crore, which was</p>

1	2	3	4	5
			<p>borrowing because the Board made no effort to avail the OD facility of ₹ 50 crore granted by Canara Bank which could have been availed. in June 2001 to pay-off the dues of REC, to avoid payment of penal interest of ₹ 1.49 crore. The Committee realises that the Board's injudicious management of funds led to a huge financial loss and that there is lack of planning and foresight on the part of the Board. The Committee recommends that the Board must rectify its past mistakes, fix responsibility of the finance managers and develop a better system of financial control.</p>	<p>availed in August 2001, vide Board Order dated 25-8-2001. Hence the observation of the audit that temporary Over Draft of ₹ 50 crore should have been availed in June 2001, to pay-off dues to Rural Electrification Corporation (REC) was not correct, since the temporary Over Draft was not sanctioned by Canara Bank in June 2001 as wrongly presumed by the audit. As the Board was struggling to meet even the day-to-day expenditure at that time, the Board was not able to make the payment to REC without any fresh loans from the Banks, It may also be submitted that the Board had tried to avail loan from several Banks, but the loan was not sanctioned.</p>

K. N. A. KHADER,
Chairman,

Committee on Public Undertakings.

Thiruvananthapuram,
3rd December, 2015.

ANNEXURE I

List of spares⁻¹⁰⁵ supplied

No	Item	Part No	Qty (Nos)	Status
1	Stator of Pump EH- 236	22	1	Replaced
2	Stator of Pump EH- 236	22	1	Replaced
3	Stator of Pump EH- 236	22	1	Replaced
4	Pressure Gauge PO2	IMT 1454.044001	1	Replaced
5	Alarm Horn (Aux Voltage 110V)	HP- 21220316	1	Replaced
6	Injection Nozzle	167020	1	Replaced
8	Pressure difference gauge for air cooler on both banks	514 002	2	Replaced
	Bracket	514017	1	Replaced
9	Pressure difference gauge over charge air cooler on B-bank	514002	1	Replaced
	Bracket	514017	1	Replaced
10	Circulation water pump	RCC 901 D002	1	Replaced
	Circulation water pump	RCC 901 D003	1	Replaced
11	Manometer of Pressure control valve of slow turning	357345	1	Replaced
12	Differential pressure gauge for charge air cooler	514002	1	Replaced
13	Differential pressure gauge for charge air cooler	514002	1	Replaced
	Bracket	514017	1	Replaced
14	Manometer of Pressure control valve of slow turning	357345	1	Replaced
15	Pneumatic actuator	WP1R053318	1	Replaced
16	Temperature gauge at Lube Oil outlet from Engine	511015	1	Replaced
17	Stator for oily water drain pump	22	1	Replaced
18	Differential pressure gauge for charge air cooler	514002	1	Replaced
19	Flow transmitter		1	Replaced
20	Pressure gauge of high pressure pump	YBB905 P13	1	Replaced
21	Thermometer 0-400	RCC 051T002	1	Replaced
22	Temperature Sensor	506856	1	Replaced
23	Air brake contactor	3TF 45 22-0A with 2NO, 2NC	1	Replaced
24	Temperature sensor	506856	1	Replaced
25	Camshaft Piece	148097	1	Replaced
	Tappet roller	161024	1	Replaced
	Fuel Injection Nozzle	167020	1	Replaced
	Hexagonal socket screw	161028	1 set	Replaced
26	Injection valve complete	167001	1	Replaced
29	Cable terminal Connectors 1000 V 150 mm ²		4	Replaced
30	Circulation water pump	RCC 901 D01	1	Replaced
31	Flow transmitter in HFO inlet line		1	Replaced
32	Differential pressure gauge for charge air cooler	514002	1	Replaced
33	Pressure gauge of pressure reducing valve in the air line to mech overspeed trip device	228222	1	Replaced
34	Pressure Transmitter of HFO Day Tank 1		1	Replaced
35	Hard Disk of Server		1	Replaced
36	Exhaust gas bellow after turbocharger on B Bank		1	Replaced
37	Definite time relay 110 V DC	VTT-11	1	Replaced
38	Overload relay of cooling fan feeder 13-18 A with 1NO, 1NC		1	Replaced
39	Main contactor of cooling fan feeder	LA5-D323-A60	1	Replaced
40	Main contactor of cooling fan feeder	LA5-D323-A60	1	Replaced
41	Isolating contacts of the Module	CSC/HPC/DB/01	1 set	Replaced
42	Overload relay of cooling fan feeder 13-18 A with 1NO, 1NC		1	Replaced
43	Connecting Hose between separator body and sludge tank	523124 80	1	Replaced

	4-20 mA transmitter	SS5 (15077)	2	Replaced
	Main contactor of cooling fan feeder	LA5-D323-A60	6	Replaced
46	Current Transformer 150/1 A		3	Replaced
47	11 KV Current Transformer (ALT #4 incomer panel)		1	Replaced
49	Overload relay of radiator cooling fan feeder 13-18 A with 1NO, 1NC	LR-1D-16321	3	Replaced
52	Running hour counter		1	Replaced
53	Temperature sensor of HFO buffer tank		1	Replaced
54	PBT-EPABX system		2	Replaced
55	Limit switch of mech overspeed trip device	228241	4	Replaced
57	Bellows	200007	1	Replaced
	Screws	200 060	As	Replaced
	Nuts	200 223	require	Replaced
	Gaskets	200 011	2	Replaced
58	Flexible Bellow of starting air line from pipe module to engine		1	Replaced
59	Overload Relays of radiator cooling fan feeder 13-18 A with 1NO, 1NC	LR-1D-16321	1	Replaced
60	Main contactor of radiator cooling fan feeder	LA5-D323-A60	4	Replaced
61	Main contactor of radiator cooling fan feeder	LA5-D323-A60, #	6	Replaced
62	Overload Relays of radiator cooling fan feeder 13-18 A with 1NO, 1NC	LR-1D-16321	3	Replaced
63	Tappet roller	141030	1	Replaced
	Roller Pin	141032	1	Replaced
64	Pressure gauge valve of steam drum	RCA 901 V011	1	Replaced
65	Vibration damper	205030	8	Replaced
66	High pressure switch of HFO separator	P07 PS 41	1	Replaced
67	Ball valve (LFO inlet valve)	V-10	1	Replaced
68	Power supply unit	7021-2N1	3	Replaced
	Resistance to current converter	7002-2N1	1	Replaced
	Oil temperature indicator	7214-07	1	Replaced
69	Solenoid of Pneumatic valve (WTP)	Ref No. 540 90 001	1	Replaced
70	Radiator shaft sealing of HT cooling water pump		1	Replaced
	shaft sealing of HT cooling water pump		1	Replaced
72	Exhaust gas bellow after turbocharger on A Bank		1	Replaced
73	Differential pressure gauge for charge air cooler	514002	1	Replaced
74	Pressure gauge of pressure reducing valve in the air line to mech overspeed trip device	228222	1	Replaced
75	Differential pressure gauge for charge air cooler	514002	1	Replaced
76	Liner temperature sensor	506856	1	Replaced
	Exhaust gas temperature sensor	506857	1	Replaced
77	Main switch 600 V AC 9WTP)	KG4151 340	1	Replaced
78	Energy meter of GT #4 feeder		1	Replaced
79	Port connectors of EGB		3	Replaced
80	Auto reset or synchronous timer of GT #4		1	Replaced
81	Exhaust gas temperature sensor of Turbocharger on A Bank	506550	1	Replaced
82	Gasket of return header, HT	155078	1	Replaced
	Gasket of return header, LT	155079	1	Replaced
83	Sealing for emergency stop piston	165225	1	Replaced
84	Gasket of return header, HT	155078	1	Replaced
	Gasket of return header, LT	155079	1	Replaced
85	PMV valve control system		1	Replaced
86	Fuel pressure gauge	516012	1	Replaced

	Header thermometer of EGB	RCC 081 T003	1	Replaced
	Overload relay 56-80 A		1	Replaced
9	Logic output 4 channel current card in the CFS 041 panel	140 ACO 02000	1	Replaced
98	Impeller of sludge pump D01	17935-0001	1	Replaced
92	Temperature Sensor EGB		1	Replaced
93	11 KV Current Transformer 1250/1/1		1	Replaced
94	TBN Test cell		1	Replaced
95	Gasket Return header,	155078	1	Replaced
	Gasket Return Header	155079	1	Replaced
96	Limit Switch (O/S Trip)	228241	1	Replaced
97	Main Contactor		4	Replaced
98	Overload Relays		5	Replaced
99	Spring charging Mecha	1M208	1	Replaced
100	Limit Switch, Pump control		2	Replaced
101	sealing kit		2	Replaced
	o-ring set		2	Replaced
102	overload relays		7	Replaced
103	circulation flow switch		1	Replaced
104	solenoid valve		2	Replaced
105	stator of pump eh-236	22	1	Replaced
106	110 V AC coil, main contactor		9	Replaced
107	Flow sensor	PCO 040 Q001	1	Replaced
108	pressure switch		1	Replaced
109	Circulation water pump	RCC 901 D001	1	Replaced
111	Air Vent Valve	RCC 081 V009	1	Replaced
112	Temperature Sensor	506550	1	Replaced
113	Temperature Sensor	506550	1	Replaced
114	Solenoid of Pneumatic valve (WTP)		1	Replaced
115	Stator of sludge transfer pump		1	Replaced
117	Shaft seal	191065	1	Replaced
	Slide ring gasket	191064	1	Replaced
	O ring	191066	1	Replaced
119	Spring of main injection valve	167010	1	Replaced
120	Regulator valve	V-24	8	Replaced
	Temperature Sensor	T- 51	8	Replaced
123	Main switch		1	Replaced
124	Solenoid of Pneumatic valve (WTP)	Ref No. 540 90 001	1	Replaced
125	PMV valve control system		1	Replaced
126	pressure switch	P29/DAC 901	1	Replaced
127	Diaphragm	NBR 251 801-41	2	Replaced
	Gasket, O type	921000370	2	Replaced
128	Temperature sensor	506856	1	Replaced
129	Radial shaft sealing	Item 44	1	Replaced
	Shaft sealing	Item 40	1	Replaced
130	EGB	200007	1	Replaced
131	Thermocouple input card	140 ATT D3000	1	Replaced
132	Solenoid of Pneumatic valve (WTP)		1	Replaced
134	Vibration Damper	205050	7	Replaced
135	PMV valve control system		1	Replaced
136	EGB before Turbo charger-A	200007	1	Replaced
	Gasket	200011	1	Replaced
137	Dip stick for LO	184005	1	Replaced

	GB before Turbo charger-A	200007	1	Replaced
138	Seal rings	200011	2	Replaced
	Screws	200060	6	Replaced
	Nuts	200011	6	Replaced
39	Flexible Bellow	TSB 010 B001	1	Replaced
140	Lube oil flow switch		2	Replaced
41	Vibration damper	205050	4	Replaced
42	Differential pressure gauge	514002	2	Replaced
43	MCB of welding Receptacle		1	Replaced
44	ELCB LP06		1	Replaced
145	110 V AC coil	LAS-D323-X60	5	Replaced
46	Lube oil flow switch		2	Replaced
147	11 KV CT		1	Replaced
148	Auxiliary Relay	E74-138	1	Replaced
	Charge air cooler	476011	1	Replaced
149	Gasket Return header HT	155078	2	Replaced
	Gasket Return header LT	155079	2	Replaced
150	Damper Motor		1	Replaced
151	Thermostatic valve		5	Replaced
152	Lube oil flow switch		2	Replaced
	Flap valve	355643	1	Replaced
153	O ring	355644	2	Replaced
154	Power supply Module	UN0664	1	Replaced
155	Heat tracing strip (9 m)	R 102.B	1	Replaced
156	Heat tracing strip (4.3 m)	R 102.A	1	Replaced
157	Analog input/output module	UN0610	1	Replaced
160	Sealing for stop piston	165225	3	Replaced
161	Vibration damper	205050	3	Replaced
162	Vibration damper	205050	9	Replaced
163	MCCB (NF 100- CS)		1	Replaced
165	Digital Multimeter	DM 352	1	Replaced
166	Flexible Element		1	Replaced
	Dowel pin	167012	26	Replaced
168	Nozzle Nut	167017	2	Replaced
	Nozzle Nut	167017	1	Replaced
169	Dowel Pin	167012	8	Replaced
	Spring	167010	3	Replaced
170	Pressure reduction valve	4321	1	Replaced
	O ring	350101	18	Replaced
	O ring	350107	38	Replaced
171	O ring	350109	16	Replaced
	Guide ring	350108	16	Replaced
	Support ring	350110	32	Replaced
	Nozzle Holder complete	167016	1	Replaced
173	Nozzle Nut	167017	1	Replaced
	Spring	167010	2	Replaced
174	Spring	167010	2	Replaced
175	Synchronous timer	0046BI	1	Replaced
	Nozzle Nut	167017	1	Replaced
178	Securing spring	143011	2	Replaced
	Dowel pin	167012	25	Replaced
179	Damper motor+ gear		2	Replaced
180	110 V AC Coil (Main contactor)		3	Replaced

181	lube oil flow switch		2	Replac
182	oil switch		1	Replac
183	Timer		1	Replac
184	Connecting piece	167035	1	Replac
	Sealing set for pump overhaul	163178	1	Replac
185	Thermometer	RCC 051 T003	1	Replac
186	solenoid of make up wall		1	Replac
187	double push button		1	Replac
188	differential pressure gauge	514002	1	Replac
189	TC washing house 450mm long		2	Replac
	TC washing house 410mm long		1	Replac
190	synchronous timer	0046B1	1	Replac
192	computer mouse		1	Replac
193	alarm blink	H100	1	Replac
194	MCCB (NF 100- CS)		1	Replac
195	main switch		1	Replac
198	shaft with impeller		1	Replac
	shaft sealing kit		1	Replac
199	R/D drop one chanel module	140 CRA 93100	1	Replac
200	Heate tracing strip(4.3m)	R102A	1	Replac
201	dampner motor + gear		1	Replac
202	stator of pump BH-236		1	Replac
203	Temperature sensor	506550	1	Replac
204	control valve	RBA901 P009	1	Replac
207	flexible hose	TSB 010 B001		Replac
208	Contensate drain valve		1	Replac
210	limit switch for pump control		2	Replac
211	control gear box	GG-12405	2	Replac
	control gear box		1	Replac
	control gear box		1	Replac
212	limit switch for pump control		2	Replac
213	Differential presure transmitter	RCC041.P003	3	Replac
214	voltage transducer	T11(TD008)	1	Replac
215	pressure switch(High)	1762711-01	1	Replac
216	over load relay		1	Replac
218	Valve piston		1	Replac
	Valve spring		1	Replac
219	Upper valve section, HP	3083	1	Replac
	Fixing Pin	3146	1	Replac
220	Bull valve (LFO inlet valve)		6	Replac
222	Valve piston		1	Replac
	Valve spring		1	Replac
223	Radial shaft sealing		1	Replac
	Shaft sealing		1	Replac
225	Filter vessel		1	Replac
226	Threaded outer adapter		1	Replac
227	TC washing hose (450mm)		2	Replac
	TC washing hose (410mm)		2	Replac
228	Sealing ring	211005	2	Replac
	O ring	211016	2	Replac
229	Side segment	205208	1	Replac
	Bail valve		1	Replac

232	TC washing hose (450mm)		2	Replac
	TC washing hose (410mm)		2	Replac
	Indication valve	121445	1	Replac
233	Sealing ring	125447	1	Replac
234	Vibration damper	20A050	2	Replac
235	Vibration damper	20S030	5	Replac
236	Temperature sensor	306856	1	Replac
239	Double push button		1	Replac
240	stator of pump EH-236		1	Replac
241	Differential Pressure transmitter		1	Replac

ANNEXURE II

	Item	Part No	Qty (Nos)	Status
7	Connecting valve between Circulation pumps RCC 901 D001 and RCC 901 D002	RCC 901.V011	1	Repaired
27	Damper control On-OFF modulating motor with gear assembly		1	Repaired
28	Damper control On-OFF modulating motor with gear assembly		1	Repaired
50	Feed water pump	RBB 901 D001	1	Repaired
51	Air operated diaphragm of booster units	DL-15-FA-NNT	1	Repaired
56	Jockey pump in Fire water pump house		1	Repaired
110	Hydrant Pump		1	Repaired
116	Electrical pneumatic 2 way valve	DAC 900V004	1	Repaired
121	Insulation of Exhaust gas bellow		8	Repaired
122	Circulation water pump	RCC 901 D003	1	Repaired
133	Thermal insulation		3	Repaired
158	Damper fixing shaft		1	Repaired
159	Jockey Pump		1	Repaired
164	Flow control disc	562268 02	1	Repaired
	Upper pairing Disc	545997 80	1	Repaired
	Oil pairing disc	561149 01	1	Repaired
167	Float level indicator		1	Repaired
174	Main gate hinges			Repaired
	Compound wall BPCL area			Repaired
	Main Road surface			Repaired
	Steel doors of DG building		6	Repaired
	Wall panels of DG hall			Repaired
	Door glass pans + beadings			Repaired
	False sealing damaged			Repaired
176	Air conditioner units		3	Repaired
177	Chimney			Repaired
196	Screws	221716-13	1	Repaired
197	rail trolley+chain block		1	Repaired
205	soot blower	RCC 081 A001	1	Repaired
206	Upper pairing Disc	54599780	1	Repaired
	Oil pairing disc	56114901	1	Repaired
209	oil water pump	EH236	1	Repaired
221	Pressure damper	DRWNR	1	Repaired
231	Turbo Charger		2	Repaired
237	soot blower	RCC 081 A001	1	Repaired
238	Air conditioner units		2	Repaired

ANNEXURE III

100/05
ARA BANK

MENT BRANCH, M.G. ROAD, TRIVANDRUM 695 039

REF: 28:CH:333:2001:RPS
 27.06.2001

FINANCIAL ADVISOR
 STATE ELECTRICITY BOARD
 THI BHAVAN
 TRIVANDRUM

REQUEST FOR TERM LOAN OF RS. 100.00 CRORES AND WORKING CAPITAL OF
 RS. 50.00 CRORES

has reference to the discussions undersigned had with the
 Financial Advisor.

are recommending the following rates of interest to our Head Office for
 the above facilities, for their consideration / sanction / subject to our
 terms and conditions.

1. Term Loan of Rs. 100.00 Crores	ii	MTLR + 0.25%	(Present MTLR is 12%)	<i>Int. rate here</i>
2. Working Capital of Rs. 50.00 Crores	ii	PLR + 0.65%	(Present PLR is 11.75%)	

However the rates are subject to approval by sanctioning authorities and
 there is no commitment on our part to sanction the facilities on the above
 rates).

Thanking you,

Yours Faithfully,

ASSISTANT GENERAL MANAGER

[Signature]
 S. F. PAI