

2

FIFTEENTH KERALA LEGISLATIVE ASSEMBLY

COMMITTEE

ON

PUBLIC UNDERTAKINGS (2023-26)

(Presented on 01:02:2024..)

SECRETARIAT OF THE KERALA LEGISLATURE THIRUVANANTHAPURAM

2022

FIFTEENTH KERALA LEGISLATIVE ASSEMBLY

COMMITTEE

ON

PUBLIC UNDERTAKINGS (2023-26)

On

The action taken by Government on the Recommendations contained in the Thirty Ninth Report of the Committee on Public Undertakings (2016-19) relating to Kerala State Electricity Board Limited, based on the Report of the Comptroller and Auditor General of India for the year ended on 31st March 2003, 2005, 2006, 2008, 2010 and 2012

CONTENTS

••

. .

Composition of the Committee Introduction Report Chapter I Replies furnished by the Government on the recommendations of the Committee which have been accepted by the Committee without remarks

×.,

.

COMMITTEE ON PUBLIC UNDERTAKINGS (2023-26)

COMPOSITION

Chairman:

Shri E. Chandrasekharan

......

Members:

Shri A. P. Anilkumar

Shri Anwar Sadath

Shri Ahammed Devarkovil*

Shri T. V. Ibrahim

Shri P. Mammikutty

Shri K. P. Mohanan

Shri D. K. Murali

Shri P. Nandakumar

Shri Kadakampally Surendran

Shri P. Ubaidulla

Legislature Secretariat:

Shri Shaji C Baby, Secretary in chargeShri Venugopal. R, Joint SecretarySmt. Jayasree. M, Deputy Secretary

Shri Mohanan. O, Under Secretary

* In the vacancy of Shri K. B. Ganesh Kumar sworn in as Transport Minister w.e.f. 16.01.2024.

INTRODUCTION

The Statements of Action Taken by the Government included in this Report was considered by the Committee constituted for the years (2021-23) at its meetings held on 7-12-2021 in the presence of officials of Kerala State Electricity Board and later on 7-6-2022.

This Report was considered and approved by the Committee at its meeting held on 26.08.2023.

The Committee place on record their appreciation for the assistance rendered to them by the Accountant General (Audit), Kerala and officials of Kerala State Electricity Board Limited who were present during the examination of the Action Taken Statements included in this Report.

E.CHANDRASEKHARAN

Chairman, Committee on Public Undertakings.

REPORT

This Report deals with the action taken by the Government on the recommendations contained in the Thirty Ninth Report of the Committee on Public Undertakings (2016-19) relating to Kerala State Electricity Board Limited based on the Report of the Comptroller and Auditor General of India for the year ended 31st March 2003, 2005, 2006, 2008, 2010 and 2012.

The Thirty Ninth Report of the Committee on Public Undertakings (2016-19) was presented to the House on 18th May 2017. The Report contained eighteen recommendations and the Government furnished replies to all these recommendations.

The Committee (2021-23) considered the replies received from the Government at its meetings held on 7-12-2021 and 7-6-2022.

The Committee accepted the replies to the recommendations without remarks. These recommendations and the replies furnished by the Government form Chapter I of this Report.

<u>CHAPTER – 1</u> <u>REPLIES FURNISHED BY THE GOVERNMENT ON THE RECOMMENDATIONS OF THE COMMITTEE</u>

WHICH HAVE BEEN ACCEPTED BY THE COMMITTEE WITHOUT REMARKS

Sl. No.	Para No.	Department Concerned	Conclusions/Recommendations	Action Taken by the Government
(1)	(2)	(3)	(4)	(5)
1	87	Power	The Committee understands that the Board had	Precise assessment regarding the requirement of poles for
			failed to assess the actual requirement of pre-	subsequent period is not possible, as the actual requirement
			stressed concrete poles which resulted in the	depends on the number of new connections, street lights,
			shortage of poles in some Electrical Circles. To	number of poles required for maintenance, replacement of poles
			overcome this crisis, the Board diverted the	damaged due to natural calamities, implementation of new
			poles from other circles which lead to a heavy	schemes announced by Central and State Governments from
	ĺ		loss as transportation charge. The Committee	time to time, deposit works by local bodies etc. which cannot be
			points out that such action was against the	anticipated in advance. However, as pointed out by the
			financial interest of the Board and recommends	Committee, extreme care is exercised in assessing the
			that the Reard should ensure that the	requirement of poles for inviting new tenders. Moreover, the
			assessment of actual requirements are done	duration of the tender for the supply of poles is reduced from 5
			accurately and scientifically.	years to 2 years so that the variation would be minimum. Also,
				the requirement is finalized only after considering the actual
				utilization for the previous 3 years.
2	88	Power	The Committee observed that the Company was	The Company was forced to terminate some contracts due to
			forced to terminate the contract awarded for the	failure of supply of poles in accordance with the provisions in
			supply of 3.92 lakh poles in three Electrical	the agreement. Since Pre-Stressed Concrete (PSC) Poles being
			Circles due to the failure of the firms to supply	a vital item for providing supply to the consumer, in order to
			poles as per schedule. The Committee noted that	avoid shortage of poles in the event of non-supply by the firms
			since disqualified firms failed to supply the	already agreed, purchase orders were placed with more than
			balance poles after the supply of 40% of the	one supplier, for many Electrical Circles.

)

Т	T		agreed quantity, the Company was forced to	
			terminate the contract.	
3	89	Power	The committee criticises the procedural irregularity of the Board in qualifying the firms which were already disqualified by the Pre-Qualification Committee. The Committee blames the decision of the Board to award contracts by violating the existing tender/contract terms and conditions in favour of the contractors. The Committee directs the Board to insist the contractors to follow the contract terms and conditions strictly and impose penalty for their non-compliance to contract provisions. The Committee also recommends that the legal cell of	KSEBL is strictly sticking on to the terms and conditions in the agreement. Also, penalty is fully imposed for any short – fall in supply as per the contract provisions. In the light of the previous experience, tender conditions are updated by the Company after obtaining remarks from the Financial and Legal Wings. These are subsequently approved by the Board of Directors and tenders are invited accordingly.
			the Board should frame feasible terms and conditions in the contract.	
4	90	Power	The Committee expresses its strong displeasure	It is true that earlier in some areas, the poles are kept along the
-			over the unsecured stocking of poles along the	road side for long time. In order to avoid this, now a provision is
			road side which got damaged and even buried	incorporated in the Purchase Order to reduce the monthly
			under the soil over the passage of time.	quantity up to 30% considering the field requirements, to avoid
			Therefore the Committee recommends that the	stacking of poles for a long time.
			Board should maintain Material At Site Account	As recommended by the Committee, strict instructions are given
			(MASA) properly in order to avoid the	to the field officers to maintain Material At Site Account (MASA)
			discrepancies on physical verification of the	
			stock of poles.	of the stock of poles. Now they are being accounted properly.
5	91	Power	The Committee express its strong discontent	
			over the inefficiency of the legal cell of the	
			Board in litigation management. So the Committee recommends the Board to restructure	

.

)

٠.

ſ				the legal cell by appointing senior experienced	Disciplinary Enquiry Officer/Gel/2011-12] dtd.11.03.2014 in all the
				lawyers for the proper handling of cases.	Electrical Circles for the smooth conduct of cases before various
					courts/fora is an affirmative step in this regard.
· F	6	92	Power	The committee was appalled to note that Board's	
Í				functioning was still Based on the Manual	
]	formulated in 1967. The Committee expressed	
				strong displeasure of KSEB following an outdated	
				Manual and directs the Board to amend the	adopted in KSEBL vide B.O.(FTD)No.624/2019/
			ļ	Manual by incorporating provisions to make it	D(T&SO)/T6/G1/2019-20 dated 14/08/2019.
				relevant.	The following are the rates for compensation as per the
					guidelines
Í					Amount equivalent to 85% of fair value of land as tower
					foot compensation.
					Amount equivalent to 15% of fair value of land as RoW
					compensation.
					Ministry of Power vide letter No. 3/4/2016/Trans dated
					16/07/2020 had finalized the guidelines for payment of
					compensation towards damages with regard to RoW for
					transmission lines in urban areas with additional compensation
					(in the form of Non-Usability allowance) up of 15% of the land
					value for the width of RoW corridor in notified urban areas.
					Also in this regard the KSEBL had given concurrence to the
1					recommendation of the Urban RoW Committee to disburse
					additional 15% non usability allowance in the case urban RoW,
					based on fair value of land.
					In the MoP guidelines, it was requested to take suitable decision
					by States/UTs decision by States/UTs regarding adoption of the
					guidelines considering that "Land" is a state subject.
					Action is being initiated for adopting the MoP Guidelines dated
h					

...)

7	93	Power	While considering the Audit Report of the year 2002-03, the Committee express its discontent over the decision of the Board to generate thermal power without evaluating future financial implications and purchase of thermal power from independent power producers without proper assessment of energy requirement and peak load demand. The Committee recommends the Board to avoid payment of deemed generation	Producers (IPPs) namely BKPL (157 MW) and KPCL (21.93 MW) and RGCCPP plant (359.79 MW) of NTPC which are thermal stations to meet the power requirement of the State. In the prevailing power scenario of the State, the demand was met mainly by scheduling the hydro stations of the State which were dependent on the storage based on the rainfall received and the
7	93	Power	2002-03, the Committee express its discontent over the decision of the Board to generate thermal power without evaluating future financial implications and purchase of thermal power from independent power producers without proper assessment of energy requirement and peak	Power Purchase Agreements (PPAs) with independent Power Producers (IPPs) namely BKPL (157 MW) and KPCL (21.93 MW) and RGCCPP plant (359.79 MW) of NTPC which are thermal stations to meet the power requirement of the State. In the prevailing power scenario of the State, the demand was met mainly by scheduling the hydro stations of the State which were dependent on the storage based on the rainfalt received and the allocation from Central pool which were not consistent. As per the PPA terms, fixed charges would be payable even when the plants were not scheduled by KSEBL. Since the variable costs per unit of these plants were on the higher side, these plants were scheduled need based to meet the rising demand. It may be noted that the validity of PPAs executed with KPCL and BSES expired on 13/05/2016 and 31/10/2015 respectively and the agreements have not been renewed thereafter. Hence KSEBL is at present not paying deemed generation charges to KPCL and BSES. During the tenure of PPA, KSEBL has successfully taken steps for bringing down the fixed charges also. In respect of

),]

charges. The matter is still pending before the Commission. It may kindly be noted that non payment of Fixed Charges would amount to violation of terms and conditions of the PPA and may affect supply from other sources also. Thus the viable option available before KSEBL is to bring down the charges to the maximum extent possible.

KSEBL has seized every opportunity to sell the surplus thermal power to other States as detailed in the Annexure. It can be seen that during the period from 2002-17, an amount of ₹ 4432.96 crore was received by KSEBL towards external sale of power of 5885.7 MU at an average realization of ₹7.53/unit. It may also be noted that about 20,477.43 MU has been generated from these stations, a sizeable portion of which was used for meeting the demand of the State Itself, especially during different draught years.

KSEBL is in the process of formulating and implementing environmentally benign small hydro power projects in the northern Kerala viz; Barapole SHEP (15 MW), Vilangad SHEP (7.5 MW), Kuttiady Tail Race (3.75 MW), Poozhithodu SHEP (4.8 MW), Chembukadavu Stage (7.5 MW), Adyanpara SHEP (3.5 MW), Maripuzha SHEP (6 MW) etc., Further, various Small Hydro Electric Projects are being implemented through Private Participation as per the Small Hydro Power Policy of Government.

In tune with Small Hydro Policy 2012 of Government, the following Renewable Energy Capacities are commissioned in the State both under KSEBL and Private Sector. The details are as below:

. . (**)**

				Renewable Resources		Installed capacity (M (as on Jan 2018)	W)	
					State Sector	Private Sector	TOTAL	
				1.Small Hydro (1 MW to 25MW)	136.09	66.0000	202.09	
				2.Solar (1MW & above)	7.250	59.180	66.43	
				3.Solar (Less than 1MW)	0.6949	8.7560	9.4509	
				4. Wind	2.0250	57.250	59.275	
				TOTAL	146.0599	191.186	337.2459	
8	94	Power	On perusal of the Audit Report of the year 2004-	The KSEBL invites	tenders	for supply of	materials f	from
			05, the Committee is of the opinion that the	experienced,capable	and gen	nuine manufacture	rs only. Ten	ders
			Board should finalise tenders for supply and	are technically and	d financia	ally evaluated an	d prior to	the
			installation directly with the manufactures rather	finalization, the rate	of the lo	west bidder is co	mpared with	that
			than through the intermediaries. The Committee	of the previous P	urchase	Order, updated p	price of exis	sting
			also recommends tnat prior to finalisation of	orders etc. If the pr	revious ra	ites of items are	not available,	the
			project contracts the Board should compare the	rates from other ut	ilities are	also requested for	or compariso	n to
			cost of similar foreign/ indigenous projects	secure cost-effectiv	eness. Tl	he remarks of the	e finance win	ig is
			finalised/ executed to secure cost-effectiveness	also obtained be	fore fina	alizing the tend	lers. Thus	the
			and value for money.	recommendation is s	scrupulous	sly followed.		
9	95	Power	Committee asserts its opinion that meticulous	KSEBL has sele	cted t	he Turn-key o	contractors a	after
			care should be taken in fixing consultants and	observing all	formalitie	s prevailing	in Board.	
			vendors for execution of projects strictly	A tender Committee	e was cor	nstituted on 24.06	5.2011, compri	ising
			keeping the financial interests of the state intact.	officers from the I	Distributio	n Wing of South	ern, Central	and
			Adequate measures to reduce costs should be	Northern regions alo	ong with o	officers from the l	egal and fina	nciał
			taken while negotiating with foreign sources and	wings to finalise	the mo	difications require	ed in tech	nical
			follow up action taken to ensure that foreign	specifications, term	ns and co	nditions of contrac	t and other s	such

),]

			grants linked to projects are ultimately received	matters in conncection with the tendering of schemes.
			without fail and gainfully utilised.	At the time of Pre-Qualificaton, the credentials and solvency are
				strictly analyzed to avoid delay in execution of projects keeping
				the financial interests intact.
10	96	Power	Going through the Audit Report (2005-06), the	The budget Estimates in respect of schemes/projects (Capital
			Committee realises that the budget estimates	Budget) is being prepared on the basis of approved Capital
			were prepared without any scientific basis with	Investment Plan of the company. The capital investment plan is
			respect to Schemes/Projects to be executed	being prepared after detailed analysis by different wings of
			during the ensuring year. Therefore, the	KSEBL and vetting at various levels.
			Committee directs the Board to evolve an	-
	1		effective system for the preparation of more	At present, there is an efficient system in force for detailed
			realistic budgets, so that it will help foster the	deliberations and analysis of each project before the
			purpose of better management.	preparation of plan. The necessity of each work proposed is
				ascertained after conducting load flow studies in which financial
				viability and technical viability are examined. Availability of land is
				ensured in the discussions with land owners and revenue
				authorities. More over, the probable period required for
				completion of the project is also taken into account. All these
				effective steps are being taken before finalizing a project so as
				to include it in a particular budget.
				It may be noted that KSEDI was able to reduce the sector
				It may be noted that KSEBL was able to reduce the gap between
				the estimate and expenditure in subsequent years through
				careful consideration of the issue. Project fund allocations are
				now being made after many rounds of discussions and cross-
L				consultations among Directors and with Financial Wing to

a.

ં્ર

				fund allocation of projects in project, which	easibility of each sc as are made in close the field. For exam is still under the a with a meager ar	e consideration ple, in the cas ctive considera	n of the progress se of Athirappally ation of KSEBL, is
		· · · · · · · · · · · · · · · · · · ·		the last three	of capital schemes years of KSEBL is f		
				Rs. Crores	Revised Estimates	Actuals	Percentage Utilisation Over Revised Estimates
				2013-14	1157.95	990.98	86%
				2014-15	1129.20	1076.25	95%
				2015-16	1205.00	1168.02	97%
				almost 100% of realistic. The IT Wing control and the April 2018.	ove, it can be seen of its plan funds an of KSEBL has deve ne same has been Electricity Board Lt	d hence its es eloped a mod implemented v	timates are more ule for Budgetary vith effect fro m fst
11	97	Power	The Committee having analysed utilisation of		Electricity Board Lt. Institutions at comp		
		1	capital receipts views that it is highly improper to divert capital assets to meet revenue expenses		esources for the im		
			which adversely affected the implementation of		cts are also imple		
			new schemes/ projects. Therefore, the Committee suggests to devise more scientific		way of overdrafts a		

),

		··· 1	and transport outland of the set of the	T
			and transparent system of cash flow analysis to	
		[improve fund management.	
			While considering the Action taken	
			statement, the Committee sought clarification	
1		í	about the present position of fund management	
			system. The financial adviser of the Board	
			clarified that the present fund management	
			system is transparent and added it has stopped	
			the practice of diversion of capital assets to	
			meet the revenue expenses as pointed out by	
			the Committee and paucity of funds has not	
		}		
	-		affected the ongoing projects. The Committee	
	1		accepted the witness reply.	
12	98	Power	The Committee is also unhappy with the laxity in	KSEBL has been able to perform better than other distribution
			collection of revenue, paving the way for	licensees, despite significant dues from government agencies
			accumulation of arrears and recommends to the	such as Kerala Water Authority (KWA) and other few
		}	Board to initiate a special drive to recoup the	Government departments. This is primarily due to efforts put in
			arrears within a stipulated period.	by the Company for achieving 100% metering of the consumers
				so as to better collection efficiency, (As part of social
				commitment, KSEBL has not disconnected the power supply to
1				KWA and other Government departments, despite default in
				payment of electricity charges)
				Collection efficiency is being monitored and steps are being
				taken to realize all pending dues. Surprise inspections at
				consumer premises are being carried out to curtail loss of
				_
				revenue due to misuse and theft. Replacement of faulty &
				sluggish energy meters are being carried out.
				Instructions have been issued to the field officers to take

. _с. У

				stringent action for realizing all pending arrears so as to avoid accumulation of arrears, by initiating proper disconnection/ dismantling/Revenue Recovery action against the defaulting consumers. Division wise audit committees under the leadership of Regional Audit Officers have been constituted to monitor the realization of long pending arrears and initiation of revenue
				recovery. In addition to the above, One Time Settlement (OTS) special schemes are announced from time to time by the Company, for realizing long pending arrears.
13	99	Power	The Committee understands that the Board had failed to introduce Personal Digital Analyser for generating invoice at the door step of the consumer. Therefore the Committee insists the Board to introduce PDA to fully automate the billing process and thereby reduce manual work.	Personal Digital Analyser (PDA) meant to generate invoice at the door step of the consumer was introduced in the Company during 2014-15. Its deployment in all Electrical Sections were completed by December 2016.
14	100	Power	The Committee finds that the Internal Audit wing could not conduct audit proceedings effectively as there was no audit module in the software. Therefore the Committee recommends that the Internal Audit should be strengthened by imparting training in Computer Assisted Audit Technique and developing effective Audit modules suitable for Internal and External Auditors.	Audit reports are incorporated in the existing computer application in the Board and a comprehensive audit module is envisaged as part of implementing Enterprise Resource Planning [ERP]. Enterprise Resource Planning [ERP] sanctioned by the Government of India will serve as an organizational tool to integrate core business process like Finance & Accounting, Supply Chain Management and Human Resource Management. The application in the system will be capable of sharing data across various departments facilitating flow of information among all business functions. The Board assures that comprehensive audit module will be available after the implementation of ERP and adequate training will also be imparted.

٢.

15	101	Power	While analyzing the Audit Report of the year	
	101			got
Í			2007-08 the Committee had noted an	and the reaction into inter acquisition related issued,
			inexcusable delay upto 129 months in the	
ļ			implementation of projects due to the delay in	to the terring include to
			acquisition of land, according sanction, awarding	ensure the completion of project without time over-run.
Î.			tenders and non synchronization of various	
			works due to the absence of proper planning	Now, project works are awarded only after getting
			and co-ordination. Therefore the Committee	possession of entire land required for implementation of the
			directs the Board to implement small Hydro-	project. Also, Board has formed a Project Monitoring Cell (PMC)
			Electric projects within the scheduled time	to closely monitor the progress of all ongoing projects and to
			through better planning and co-ordination of	give recommendations to Board to overcome slippages if any.
			work. The Committee also recommends that the	Further progress of works is being monitored at various levels.
			Board may ensure close monitoring in an	KSEBL has already decided to adopt Rehabilitation and
			effective manner so as to avoid delay and cost	Re-settlement package for acquisition of land as per the
			over-run.	Rehabilitation and Re- settlement policy of State Government
				enunciated vide G.O. (MS) No.419/2011/RD dated 15.11.2011.
				()
16	102	Power	While considering the Audit Report of the year	All efforts are being made to ensure the completion of project
			2009-10, the Committee understands that the	without cost and time over-run.
			major hurdles faced by the Board in	Now, project works are awarded only after getting possession
			implementing new projects were due to delay in	
			obtaining forest/environmental clearances and	of entire land required for implementation of the project. Also,
				Board has formed a Project Monitoring Cell (PMC) to closely
			land acquisition. So the Committee directs the	monitor the progress of all ongoing projects and to give
			Board to follow the policy guidelines from	recommendations to Board to overcome slippages if any.
			Government in matters of forest clearances, land	Further progress of works is being monitored at various levels.
			acquisition and rehabilitation of people displaced	KSEBL has already decided to adopt Rehabilitation and
			by the projects which would be helpful to the	Resettlement package for acquisition of land as per the
			Board to meet the targets of capacity addition.	Rehabilitation and Resettlement policy of State Government
				enunciated vide G.O.(M/S)No. 419/2011/RD dated 15.11.2011.
	1	1		chanciated vide 0.0.1m/3/NO. 419/2011/ND uated 15.11.2011.
				chanciated vide 0.0.(iii/3)/0. 419/2011/RD dated 15.11.2011.

-

...)

				Since the Generation using Petroleum products are more
17	103	Power	The Committee finds that the Plant Load Factor	expensive than other modes of generation, its working is limited
			of thermal power plants of the Board was very	to peak demand period or at the time of shortage of power.
			low due to the curtailed operation. Therefore the	
			Committee recommends to examine the cost	Operation of the plant is decided by the Chief Engineer
			benefit aspects of operation of Thermal Stations	(Transmission- System Operation) on merit order dispatch.
			with updated and accurate cost data and ensure	
			the possibility of optimising the utilisation with a	
			view to control the operational cost.	Specific fuel consumption - 209g/KWH generation
				O & M Cost _ ₹0.3968/KWH
				Present cost of LSHS _ ₹25791.66/MT
				Unit cost of generation - ₹0.02579166 x 209 + 0.3968
				- ₹5.79/ per Unit
			-	Average rate of Merit order dispatch is in the range ₹ 3.45
				to ₹4.50 for which power is available from elsewhere. But
				during peak hours for short duration the rates are higher and
				hence there is possibility of scheduling the Thermal Plant at
				KDPP for the snort duration.
				KDPP was under shut down for more than 6 months based
				on ban on operating the plant without online pollution monitoring
				system. The Online Pollution Monitoring system has been
				installed, tested and the plant is now ready for operation from
				01.03.2018. The operational cost is mainly the price of LSHS and
				is varying. Based on the above, System operation is planning for
				optimum scheduling of the plant in line with the policy decision of
				the Board.
				KSFBI has implemented several steps to reduce the
18	104	Power	The Committee also recommends that the Board	NSEDE 1105 Interest 1
			may take serious measures to reduce	e Transmission and Distribution losses in the Kerala Power

,

1

 \mathbf{y}_{i}

transmission and distribution loss take	System. During the period between 2001-02 and 2016-17, the
precaution against power theft and create	
additional power generation by encouraging min	,
hydel projects. The Committee also suggests	G F F F F F F F F F F
that proper utilisation of power from Central pool	
would go a long way towards reducing power	
deficit and stabilising the precarious situation that	
arise from time to time.	electro-mechanical meters with electronic meters and also
	through intensified APTS activities. Replacing worn out/old
	conductors of existing LT and HT lines, converting single phase
	lines to three phase lines, ensuring load balancing of
	transformers, procuring and installing star rated transformers
	etc which contributes to reduction of distribution losses, is in
	progress. These works are being included and executed in
	Annual Plan works. The Annual Plan for 2017-18 targets the
	replacement of 14.01 lath energy meters (faulty meters and
	mechanical meters) with electronic meters. KSEB intends to
	convert 1754 km of 1 phase lines to three phase, during the
	financial year 2017-18. The target set for LT re-conductoring is
	7519 km and that for HT re-conductoring is 1005 km. Out of
	these 9.88 lakh meters have been replaced, re-conductoring of
	457 km HT line, 6111 km LT line and conversion of 888 km single
	phase line to three phase line have been completed as on
	November 2017.
	(b) Various works are proposed in the Transgrid 2.0 Project to
	develop a transmission system capable of meeting demands at
	any part of the network. Construction of new Substations and

.

 $: \bigcirc$

transmission lines, upgradation of substations and transmission lines to higher voltage level, capacity enhancement of substations, re-conductoring of transmission lines etc.are being done in a time-bound manner so as to reduce the transmission loss to a considerable extent.

KSEBL is availing the entire power allocated to the State from the central generating stations. The Unrequisitioned Surplus (URS) Power from central pool, if available, is also being utilized during deficit period.

KSEBL has encouraged Small Hydro Projects as per the guidelines issued by the Government of Kerala in Small Hydro Policy 2012. The State Utility/KSEBL shall have the first right of refusal to purchase the power generated from Independent Power Producers (IPPs) subject to the Tariff approved by the Kerala State Electricity Regulatory Commission (KSERC). Tariff for Power Generator from the project shall be project specific tariff as determined by the Commission or generic tariff notified by the Commission, whichever is lower.

Based on the above, KSEBL has entered into Power Purchase Agreement with 9 numbers of SHP generators in the state for a total capacity of 66.16 MW and is purchasing power on a regular basis. KSEBL has also established 22 numbers of Small Hydro Projects, totaling to a capacity of 155.7 MW is under development in the state by both KSEBL and various investors. After the implementation of Availability Based Tariff mechanism

	in Power Sector populizing overdrowal (under drawal was
	in Power Sector, penalizing overdrawal/under drawal was
	imposed on constituents, and Grid discipline was established. As
	detailed in ANNEXURE-II, the net import of KSEBL for last ten
	financial years is greater than the Net Energy Scheduled. [Net
	Energy Scheduled includes the CGS share at Kerala Periphery +
	Open Access (exp(+)/imp(-) + Interstate purchase/
ĺ	Sale(purchase(+)/sale(-)) - TNEB sale from RGCCPP (for 2008-
	09, 2009-10 & 2010-11)). This indicates that the entire Central
	share has been utilized by KSEBL. Hence, KSEBL is properly
	utilizing the allocated share from Central Generating Stations
	thereby reducing power deficit in the State. Also over the
	years, KSEBL is fully utilising the allocated central share as well
	as the cheaper power contracted through Long/Medium/Short
	term Contracts so as to bring down the overall power purchase
	cost.

Thiruvananthapuram,

.

. . .).

E CHANDRASEKHARAN

.....

 $\boldsymbol{v}_{I\!\!I}$

Chairman, Committee on Public Undertakings. <u>Al NEXURE</u> – T (Para-93)

370

Year 2002-03	External Sale (MU)	BDPP+KDPP+ Thermal IPP Generation (MU)	Revenue (Rs.in crore)
2002-03	121.20	2964.64	
2003-04	0.00	2679.28	47.51
	0.00	477.43	0.00
2005-06	635.90	193.72	0.00
2006-07	1046.89	449.07	196.51
2007-08	1346.76	1215.85	533.36
2009-10	463.33	2547.56	932.12
2010-11	53.90	2397.93	438.79
2010-11	130.24	1573.94	67.51
	201.10	833.72	140.02
2012-13 2013-14	0.00	2184.23	66.63
	1414.60	1505.91	0.00
2014-15	369.17	1153.42	1336.98
2015-16	53.48	291.35	619.56
2016-17	49.30	9.38	41.70
TOTAL	5885.87	20477.43	12.77 4432.96

954/2_8/POWER(OS)

ANNEXURE-1

Year		T&D Losses (%)
2001-02		. 30,76
2002-03	·	29.08
2003-04		27.44
2004-05	·····	24.95
2005-06		22.96
2006-07		21.47
2007-08		20.02
2008-09		18.83
2009-10		17,71
2010-11		16.09
2011-12		
2012-13		15.30
2013-14	ŀ	14.96
2014-15		14.57
2015-16		14.37
2016-17		13.93

2/12

4/2018/POWER(OS)

ANNEXURE-

Flara 104)

و الم

Energy Scheduled and Imported for the Last Ten Years(MU)

+342-

YEAR	Net Schedule	Net Import
2008-09*	5576.06	5838.32
2009-10*	6256.28	6601.26
2010-11*	6926.45	7714.17
2011-12	9207.99	-9740.08
2012-13	11766.70	12802.99
2013-14	10353.72	10962.46
2014-15	12417.69	13142.96
2015-16	15005.44	15635.62
016-17	18516.75	19199.94
Inter C. L. L. L.		

Net Schedule includes TNEB share from RGCCPP