



**FIFTEENTH KERALA LEGISLATIVE ASSEMBLY**

**COMMITTEE**

**ON**

**PUBLIC UNDERTAKINGS  
(2023-26)**

**SIXTY SIXTH REPORT**

(Presented on 17.09.2025)

**SECRETARIAT OF THE KERALA LEGISLATURE  
THIRUVANANTHAPURAM**

**2025**

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**The action taken by Government on the Recommendations contained in the  
Ninetieth Report of the Committee on Public Undertakings (2019-21)  
relating to Kerala State Electricity Board Limited, based on the Report of the  
Comptroller and Auditor General of India for the year ended on 31<sup>st</sup>  
March 2009.**

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## **COMMITTEE ON PUBLIC UNDERTAKINGS (2023-26)**

### **COMPOSITION**

#### ***Chairperson:***

Shri. E Chandrasekharan

#### ***Members:***

Shri A.P.Anilkumar

Shri Anwar Sadath

Shri Ahammad 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:***

Dr. N. Krishnakumar, Secretary

Smt. Sheeba Varghese, Joint Secretary

Shri Anilkumar B, Deputy Secretary

Shri Mohanan O, Under Secretary

## **INTRODUCTION**

I, the Chairperson, Committee on Public Undertakings (2023-26) having been authorised by the Committee to present the Report on their behalf, present this Sixty Sixth Report on the Action Taken by Government on the Recommendations contained in the Ninetieth Report of the Committee on Public Undertakings (2019-21) relating to Kerala State Electricity Board Limited based on the Report of the Comptroller and Auditor General of India for the year ended 31<sup>st</sup> March, 2009.

The Statements of Action Taken by the Government included in this Report was considered by the Committee at its meeting held on 09-08-2022 and 04.01.2024 and 04.04.2024.

This Report was considered and approved by the Committee at its meeting held on 10.09.2025.

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

Thiruvananthapuram,  
17.09.2025

**E.CHANDRASEKHARAN**  
*Chairperson,*  
*Committee on Public Undertakings.*

## **REPORT**

This Report deals with the Action Taken by the Government on the recommendations contained in the Ninetieth Report of the Committee on Public Undertakings (2019-21) relating to Kerala State Electricity Board Limited based on the Report of the Comptroller and Auditor General of India for the year ended 31<sup>st</sup> March, 2009.

The Ninetieth Report of the Committee on Public Undertakings (2019-21) was presented to the House on 18<sup>th</sup> June 2019. The Report contained nine recommendations and the Government furnished replies to all these recommendations.

The Committee examined the Statement of Action Taken received from the Government on para 1, 2, 3, 4, 5, 6, 7, 8 and 9 at its meeting held on 09.08.2022. The Committee accepted the reply on Para 2, 3, 4, 6, 8, 9 and sought additional information on Para 1, 5 and 7. After considering the additional information received from the Government, the Committee accepted the reply on Para 1 at its meeting held on 04.01.2024 and para 5 & 7 on 04.04.2024. These recommendations, additional information sought by the Committee and the Statement of Action Taken furnished by the Government form Chapter I of the Report.

**CHAPTER – I****REPLIES FURNISHED BY THE GOVERNMENT ON THE RECOMMENDATIONS OF THE COMMITTEE WHICH HAVE BEEN ACCEPTED BY  
THE COMMITTEE WITHOUT REMARKS**

Sl. No.	Para No.	Department Concerned	Conclusions/Recommendations	Action Taken by the Government
1.	1	Power Department	The Committee was able to find that the Board was liable to pay interest on Security Deposit taken from consumers. As per the condition 6 % as interest was to be given in normal instances and 12% in cases of default. But the Board was seen refraining from paying this interest. The Committee can only view this as an instance of the Board taking advantage of the ignorance of the consumers. In this respect the Committee strongly criticizes the officials of KSEBL also for not maintaining and upgrading the list of consumers to whom the interest on security deposit was to be paid during 2005-2008. The Committee therefore urges that the eligible amount of Rs.76.38	Non payment of Interest on Security Deposit to consumers during the year 2005 resulted additional liability of Rs. 38.19 crore which can not be treated as the amount owed by KSEBL, and there is no need for refunding the amount of Rs. 76.38 crore at the rate of 12% of interest as pointed out in the audit. During the period of 2005-2008, the Interest on Security Deposit was calculated manually and some errors have crept in the details of Security Deposit due to absence of sufficient data, and the same was rectified later by implementing adequate remedial measures while on the migration of computerization on process of ORUMA, and subsequent restructuring of KSEBL in 2013. Now the centralized computerized billing system has been implemented in all 771 Electrical Sections all over the state of LT consumers. In the case of HT/EHT consumers, fully computerization has been done with effect from 2010-11, and hence there is no need for keeping a separate register for Security Deposit manually, and the payment of interest on Security deposit to consumers, deducted automatically from the current charges of respective month, without any manual intervention.

		<p>crore at the rate of 12% of interest as pointed out in the audit on security Deposit due during the period 2005-2008, should be refunded to the consumers even if they did not raise any claims to get the same.</p>	<p>Considering the facts referred above, it is requested that the audit query may please be got dropped.</p> <p><b><u>Vetting Remarks of the Accountant General</u></b></p> <p>“The Administrative Department had not complied with the recommendation of the Committee on Public undertakings that the eligible amount of Rs. 76.38 crore at the rate of 12% of interest as pointed out in the Audit on security deposit due during the period 2005-08, should be refunded to the consumers even if they did not raise any claim to get the same.”</p>
		<p><b><u>Additional Information sought by the Committee on Para 1</u></b></p> <p>The Committee expressed its dissatisfaction to the Government's reply that there is no need to pay interest on the Security Deposit as point out by the Committee and stated that the eligible amount of Rs. 76.38 crore at the rate of 12% of interest as pointed out in the Audit on security deposit due during the period 2005-08, should be refunded to the consumers even if they did not raise any claim to get the same. The Committee directs to submit detailed report on the same.</p>	<p>As per the provisions of Supply Code, the licensee shall pay to the consumer, interest on the Security Deposit furnished by him at the bank rate prevailing on the first of April of that year and it shall be payable annually with effect from date of such deposit. The interest accrued during the financial year shall be adjusted in the energy bill of the consumer during the first quarter of the ensuing financial year. Accordingly the interest on opening balance of the Security Deposit as on 1<sup>st</sup> April of a particular financial year at the specified bank rate will be provided in the accounts of that financial year on accrual basis. The actual disbursement of the amount will be made to the consumers in the first quarter of the next financial year by the Account Rendering Units of Kerala State Electricity Board Limited. The above procedure is being followed consistently by Kerala State Electricity Board Limited. Kerala State Electricity Regulatory Commission has also made similar observations on the payment of interest on Security Deposit to the consumers. The disbursement of interest will be accounted by the Account Rendering Units only in the financial year in which the actual disbursement is effected. Accordingly the amount provided in a particular financial year on the gross Security Deposit and its subsequent actual disbursement is as follows.</p>



				<table><tr><th>Year</th><th>Amount of security deposit at the beginning of the year</th><th>Interest payable @ 6%</th><th>Interest for the year disbursed subsequently</th></tr><tr><td>2005-06</td><td>478.44</td><td>28.71</td><td>22.85</td></tr><tr><td>2006-07</td><td>545.46</td><td>32.73</td><td>35.71</td></tr><tr><td>2007-08</td><td>624.24</td><td>37.44</td><td>28.60</td></tr></table> <p>Even though the interest on security deposit provided in the accounts on the balance at the beginning of the year, the actual disbursement would be less than the interest payable in most or the year due to multiple reasons such as non disbursement of the interest on security deposit to the dismantled consumers, the wrong accounting of the security deposit received as bank guarantee as security deposit in cash etc. As the consumers base is huge and the matter pertains to the period of two decades ago, it is practically not possible to verify each consumer details. However it is being ensured that the interest is paid to the eligible consumers and no major complaints are received in this regard. The accounts are audited by the Comptroller and Auditor General of India the sole auditor of the erstwhile Kerala State Electricity Board.</p> <p>In the light of the fact explicated above the remarks of COPU may be got dropped.</p>	Year	Amount of security deposit at the beginning of the year	Interest payable @ 6%	Interest for the year disbursed subsequently	2005-06	478.44	28.71	22.85	2006-07	545.46	32.73	35.71	2007-08	624.24	37.44	28.60
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2.	2	Power Department	The Committee criticizes the inefficiency of the Board for not implementing the projects in time which	KSEB Limited agrees with the observation of the Committee that there were delays in completing certain projects in the past. KSEBL had constituted a Project Monitoring Cell under the Director (Generation – Civil) for monitoring																

		<p>resulted in excess expenditure, idling of equipments, short realization of electrical connection charges, non reconciliation of bank accounts, cost overrun, non identification of defaulters, transmission and distribution loss etc. It recommends to take effective steps to improve the over all functions of the Board by the maximum utilization of its labour force.</p>	<p>the progress of all ongoing projects and new projects in pipeline. The Project Monitoring Cell is closely monitoring all progress of all ongoing projects with the micro-schedule and submit report to the Director (Generation – Civil) including suggestions and recommendations to overcome the slippage, if any. They visit the project sites at least once in a month, to assess the progress and submit monthly reports including suggestions and recommendations to overcome the bottlenecks if any.</p> <p>Project Monitoring Committees were constituted for all the ongoing Hydro Electric Projects to meet at site at least once in two months and take decisions on various issues that may arise during the course of execution of the project works. The Project Monitoring Committee inspect the site and record the essentially and the justification for any extra item/excess quantity, reason ability of rates and any other relevant factors relating to the project. The progress is also being evaluated and make decisions/recommendations.</p> <p>A Generation – Civil Core Committee has been constituted to analyze the issues being faced by the field officers and to make concrete proposals for improving the performance of the Generation – Civil Wing. The task of making suggestions for acquisition of land in an easier and better way, cost effective methods for decreasing the cost and to make the project financially viable, innovative ideas in the field of generation, making use of other renewable sources, optimum utilization of manpower etc. is also entrusted to the Committee.</p> <p>Construction work of 10 Hydro Electric Projects are progressing and</p>
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			<p>other new projects are in pipeline. Timely review of all projects is being done at various levels to improve efficiency and to ensure maximum utilization of the resources.</p> <p>Status of the Project Works is appended (7 pages) (Annexure).</p> <p>In case of transmission work, delay could be attributed to several reasons such as RoW issues, delay in acquisition of land for substation projects, shortage of materials, natural calamities, etc. However, with the active follow up of the Board, almost all the long pending issues have been resolved. KSEB Limited has taken several measures to ensure that transmission projects are completed as per schedule as under.</p> <p>i) Utilization of innovative technologies to minimize the requirement of RoW, so that disputes do not arise. By using specially designed towers and generation conductors KSEB Limited was able to draw 220 kV lines in the roW of 110 kV lines (22 m in width) and 110 KV lines in the RoW of 66 kV line (18 m in width).</p> <p>ii) With the active follow up of KSEB Limited, the Government have formed District Level Purchase Committee for every District. This has resulted in speedy procurement of land for new substation projects thereby avoiding delay in execution of projects.</p> <p>iii) The procurement plan for transmission materials are being prepared sufficiently in advance so as to ensure timely availability of materials at site. For those products that require more lead time, requirement for 2 years is taken together and procured. This has improved the availability of materials for both capital and O &amp; M works which is evident from the increased number</p>
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			<p>of substations completed during the recent years.</p> <p><b><u>Short realization of electrical connection charges</u></b></p> <p>As per KSERC Supply Code 2014, all electric connections except BPL are being effected after realizing the amount involved for the work.</p> <p><b><u>Non identification of defaulters</u></b></p> <p>With the computerization of the billing in KSEB Limited, the defaulters can easily be identified and prompt steps are being taken for disconnection of defaulters and realizing of dues. Special schemes like “One Time Settlement” have also been conducted with the approval of the Hon'ble KSERC, for settling of long pending arrears that are to be recovered from defaulted consumers, in addition to the normal procedures of disconnecting the defaulted connections and realizing the pending payment from security deposit. The defaulted payments pending due to court cases and those proposed for revenue recovery are also included for settlement in the One Time Settlement Scheme.</p> <p><b><u>Reduction of distribution losses</u></b></p> <p>As part of the action plan to reduce transmission and distribution losses, KSEBL has already taken steps for eliminating chances of unaccounted energy by replacing the existing faulty meters and electro mechanical meters with electronic meters and also through intensified APTS activities.</p>
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			<p>Also replacing of 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. that contributes to reduction of distribution losses, have been proposed in Dyuthi 2021 under the Urja Kerala Mission Project of the State, which aims at strengthening and standardization of distribution networks.</p> <p><b><u>Non Reconciliation of Bank Accounts</u></b></p> <p>In ARUs, two types of bank accounts are being maintained viz collection accounts and disbursement accounts. The disbursements of the funds are being made through the operative accounts maintained at the head office as well as ARUs. All the disbursement accounts are properly reconciled.</p> <p>The collection accounts are in the nature of non operative collection accounts, where only remittance are permitted. As per the agreement executed with banks the entire amounts remitted into the collection accounts on a particular day have to be swept transferred to the central collection account and then to the operative account maintained at head office on the same day itself. As per the agreement condition, the balance in collection account at the end of a particular day should be zero. All the central collection accounts are properly reconciled. As per the procedure in vogue the reconciliation of collection accounts are being made at the ARUs.</p>
	3	Power Department	<p>The Committee urges to take urgent steps to commission the projects remaining incomplete by solving legal</p> <p>There were a number of instances in the past in which legal issues had caused large scale delays in completing transmission projects. However, with the active follow up of KSEB Limited, many long pending cases have been</p>

			<p>issues involved, in a time bound manner.</p> <p>resolved/settled. Accordingly, KSEB Limited could complete many long pending substation projects/transmission line projects. In addition to the close follow up of the cases in courts, KSEB Limited is also engaging Senior Advocates on special engagement basis in important cases. KSEB Limited could complete so many transmission line projects in the recent past in spite of the large number of litigation in various courts. At present, no major transmission line/substation project is pending for want of legal clearances. At present no works are kept pending in Generational Civil due to legal issues. The ongoing Civil Works of the Hydro Electric Projects are furnished below:-</p> <ol style="list-style-type: none"> <li>1. Bhoothathankettu (24MW- 83.5Mu)</li> <li>2. Sengulam Augumentation (85Mu)</li> <li>3. Thottiyar (40 MW – 99Mu)</li> <li>4. Upper Kallar (2MW-5.14Mu)</li> <li>5. Poringalkuthu (24MW- 45.02Mu)</li> <li>6. Chinnar Phase 1 (24MW- 76.45Mu)</li> <li>7. Pallivasal Extension Scheme (60MW- 153.9 Mu)</li> <li>8. Pazhassi Sagar SHEP (7.5MW-25.16Mu)</li> <li>9. Chathankottunada II (6MW-14.76Mu)</li> <li>10. Peruvannamuzhy (6MW- 24.7Mu)</li> </ol>
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				There is no projects remaining incomplete due to legal issues under Generation (Electrical) Wing of KSEB Limited.
4.		Power Department	The Committee recommends to experiment in other sources like thermal power, Solar power etc for making the state self sufficient in power production.	<p>KSEBL is committed to ensure Energy Security in the state of Kerala, by maximizing internal generation and meeting the deficit through power procurement. The main constraint in implementation of Power projects in the State is scarcity of land. Obtaining environmental clearances and overcoming public protests are equally hampering new projects in the State. While considering the internal generation, thrust is given for renewable sources like Hydro, Solar, Wind etc in line with the Government policies in support of Green Energy. KSEBL is targeting to meet at least 40% of its annual energy requirement from renewable sources by 2022 and increase it to 50% by 2026.</p> <p>Kerala has significant potential for generation of power from Solar energy.</p> <p>KSEBL has installed of floating solar PV projects in the reservoirs and canal tops and canal banks.</p> <p>KSEBL is implementing grid connected solar energy installation on the buildings which are HT consumers and are owned by Government or quasi government agencies.</p> <p>Consumers are encouraged to install smaller capacity plants to their affordability at roof top there by diverting the existing demand.</p>

			<p>Soura is one of the Flagship Projects mooted by KSEBL under Oorja Kerala Mission of the State Government. The Projects targets to achieve a cumulative capacity of 1000 MW from Solar Projects alone by the year 2021. The first phase (200MW) of the Solar Roof Top project is now in the implementation stage, which will be followed by 2<sup>nd</sup> phase of 300MW. Remaining 500 MW is expected from Floating Solar Projects, Solar Parks and procurement through competitive bidding.</p> <p>PM KUSUM scheme is launched for Farmers giving them an opportunity to increase their income by utilizing their barren and uncultivable land for solar or other renewable energy based power plants.</p> <p>NHPC is setting up a 50 MW floating solar plant at West Kallada of which the 1<sup>st</sup> phase comprising of 10 MW is awarded. NTPC is setting up 92 MW floating solar plant in Kayamkulam. KSEBL will be procuring power from these stations. 50MW plant is already commissioned in Ambalathara as part of Solar Park in Kasargode district. Another 50MW will be added by THDCL in Paivalika, which will be commissioned within a few months. Efforts are going on to avail land for another 100 MW plant at Kasargode and unutilized land available with Malabar Devaswam Board.</p> <p>Wind projects in the State have presently a cumulative capacity exceeding 70MW. KSEBL has contracted 300 MW from wind stations to be set up by SECI; another 9.76MW is contracted from Waste to Energy plant in Brahmapuram.</p>
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			<p>Details of Solar and Wind Stations in the state and upcoming RE projects are annexed. Infirm nature of solar and wind stations demands utilities to have firm tie-ups with thermal stations. Hydro stations are essential to mitigate the risk of infirmness. 25.15 MW is recently added to the Keala Grid and projects with a cumulative capacity of 169.5 MW will be commissioned during 2020-21. Another 24MW will be added during 2021-22.</p> <p>The options for procuring LNG for power generation were explored in detail.</p> <p>It was noted that the current market condition of LNG is not conducive for making huge investments for power generation, especially in view of the non-utilization of similar gas based stations in the country due to high cost of production.</p> <p>The total installed capacity of Thermal Plants within the State is 696.54 MW, of which 159.96 is from two Diesel Power Plants owned by KSEBL. KSEBL has also contracted power from NTPC owned thermal plant at Kayamkulam RGCCPP (359.58 MW). However power from these plants (own plants and RGCCPP) is scheduled only during extreme contingencies, owing to high cost of power, BSES Kerala Power Ltd (BKPL) is another thermal plant available in the State, but KSEBL has not extended the Power Purchase Agreement owing to high cost. MPS steel Casting Pvt. Ltd (10MW) and Philips Carbon Black Ltd (10 MW) also are the two thermal plants in private sector in the State.</p>
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5.	5	Power Department	<p>The committee recommends that a proposal to install Solar panel over all major stadiums in the State like a canopy, enabling the production of solar energy in bulk quantities should be prepared by KSEBL and submitted to the government for approval.</p>	<p>KSEBL has been executing solar Generating System in Lands and Buildings of various Government Institutions on Work Deposit Basis. As per the request of Additional Director General of Police (HQ), a team from the Office of chief Engineer (Renewable Energy and Energy Savings) visited Chandrasekharan Nair Stadium Thiruvananthapuram to install a Solar Generating System as a canopy. KSEBL is also willing to execute the project on Work Deposit basis. KSEBL is ready to implement Solar Panels on Similar stadiums if the concerned Department are permitted.</p> <p><b><u>Vetting Remarks of the Accountant General:-</u></b></p> <p>The Administrative Department stated that as requested by Additional Director General of Police, KSEBL visited Chandrasekharan Nair stadium to install Solar Generating Systems. KSEBL is also willing to execute the project on work Deposit Basis. Further KSEBL has been executing solar Generating Systems in Land and Buildings of various Government institutions on Work Deposit Basis. However, Administrative Department had not complied with the recommendation of CoPU to prepare a proposal and submit to the Government for approval for installing Solar Panel over all major stadiums for enabling the production of solar energy in bulk quantities</p>
			<p><b><u>Additional Information Sought on Para 5</u></b></p> <p>Committee directed to produce detailed report on the feasibility of installing</p>	<p>Installation of solar plants using canopy over stadium is very complicated and requires complex civil structure design. Moreover, canopy based solar plant installation is far more expensive than normal ground mounted and roof top solar plants. Hence construction of canopy over stadiums is not in the scope of KSEBL. Now solar power purchase cost is less than Rs.3/- per unit as</p>

			<p>solar panels in stadiums</p> <p>per the power purchase agreement executed recently. The tariff/coast of energy from normal ground mounted solar project is greater than this rate and if the plant is installed over canopy over stadium the cost will be very much higher than this rate due to the heavy roof top structure required for the canopy.</p> <p>KSEBL is currently implementing Mega Watt range projects in the land available with KSEBL for increasing the self generation capacity; works related to 19MW ground mounted solar power plants is under progress in various schemes. The current solar installation capacity of Kerala is 760 MW. However, if the authority concerned of stadium will provide the canopy structure over stadium, KSEBL is ready for solar power plants installation under deposit work mode.</p>
6.	6	Power Department	<p>The Committee insists that the Board should strictly follow the tendering procedures as per Kerala Stores Purchase Manual. The Committee wants to be furnished with a detailed report on the purchase of Mild Steel (MS) flats from a single private firm by violating tender procedures stipulated in the Kerala Stores Purchase Manual</p> <p>KSEBL strictly follows Store Purchase Manual applicable to Power Industry and existing rules and regulations of Government while inviting tenders. Suitable modifications in Store Purchase Manual applicable to Power Industry is done by Government of Kerala.</p> <p>The Deputy Chief Engineer, Civil Circle, Pallom procured 1091 MT of MS Flats through open tender for meeting emergency requirement related with the acute crisis faced by Distribution Wing to complete the targeted and breakdown works. It was for procuring raw materials (MS Flats) for fabrication and supply of various “Clamps” (line materials) for Distribution Wing. This purchase is necessitated because of the shortage of materials in</p>

				the field after utilization of materials initially purchased by Chief Engineer (SCM) based on Annual Plan. Hence based on higher office direction, balance quantity procurement was delegated to then Deputy Chief Engineer, Civil Circle, Pallom. For this purchase tender notices were directly sent to Central PSUs M/s RINL & M/s SAIL. But they did not respond. Hence tender was invited as open tender. Only two firms participated in the tender viz M/s Binu & Co. And M/s Al Steel Industries. The two companies are two separate companies with separate sales tax registration.
	7	Power Department	The Committee observes the misuse of delegated power in the purchase of MS flats. The Committee therefore recommends this act of delegating financial powers to different circles of KSEBL should be reviewed and internal control procedure should be strengthened and report should be furnished to the Committee about action taken in this regard.	<p>The volume of purchase made by the Deputy Chief Engineer, Civil Circle, Pallom is beyond the Delegation of Power sanctioned by the KSEBL. The particular purchase was made on the war foot basis to meet the contingency requirement in Distribution Wing after obtaining necessary sanction from higher authorities. In the above circumstances, the above purchase arranged by the Deputy Chief Engineer, Civil Circle, Pallom was in order.</p> <p>The Internal monitoring of the materials at store level is now done through SCM software, through which real time allocation based on availability, arrangement of procurement of additional quantity required for completion of planned work are properly done through SCM Wing.</p> <p>KSEBL is planning to implement a full fledged software ERT solution which consists of Finance and Accounting, Supply Chain Management etc. This will ensure transparency, time and people management, fast and accurate process and reducing paper work. Also it helps accuracy in procurement,</p>

				monitoring and timely allocation in near future. Hence the internal control procedures will also be strengthened in future.
			<p><b><u>Additional Information sought on Para 7</u></b></p> <p>The Committee directed to produce a report on the effectiveness of the ERP software system for internal control procedures and its current status.</p>	<p>കെ.എസ്.ഇ.ബി. ലിമിറ്റഡിൽ എൻറർപ്രൈസ് റിസോഴ്സ് പ്ലാനിംഗ് (ഇആർപി) സോഫ്റ്റ്‌വെയർ സംവിധാനം 'സമഗ്ര' എന്ന പേരിൽ വികസനം പൂർത്തിയാക്കുകയും കെ.എസ്.ഇ.ബി.എൽ.ന്റെ വിവിധ ഓഫീസുകളിൽ ജൂൺ 2022 മുതൽ വിന്യസിക്കുകയും ചെയ്തിട്ടുണ്ട്. സംവിധാനത്തിന്റെ ആദ്യ ഘട്ടത്തിൽ ആസൂത്രണവും സംഭരണവും, ഇൻവെന്ററി മാനേജ്മെന്റ്, വർക്ക് എക്സിക്യൂഷൻ, അക്കൗണ്ടിംഗ് എന്നീ മോഡ്യൂളുകൾ പൂർത്തിയാക്കി. രണ്ടാം ഘട്ടത്തിൽ ആർ.എ.പി.ഡി.ആർ.പി പദ്ധതിയിൽ ഉൾപ്പെടുത്തി അസറ്റ് മാനേജ്മെന്റ്, കസ്റ്റമർ റിലേഷൻസ്, ഡോക്യുമെന്റ് മാനേജ്മെന്റ് എന്നിങ്ങനെയുള്ള മോഡ്യൂളുകളും നടപ്പിലാക്കുന്നതിന് വിഭാവനം ചെയ്തിട്ടുണ്ട്.</p> <p>ഇ.ആർ.പി. സംവിധാനം നടപ്പിലാക്കുന്നതിലൂടെ മൂലധന പ്രവർത്തനങ്ങളുടെ നടത്തിപ്പിനായുള്ള ആസൂത്രണം, മെറ്റീരിയൽ പട്ടിക ഉണ്ടാക്കൽ, ടെൻഡർ ഡോക്യുമെന്റ് അപ് ലോഡ് ചെയ്ത് പർച്ചേസ് ഓർഡർ തയ്യാറാക്കൽ മുതൽ MDCC വരെയുള്ള എല്ലാ പ്രക്രിയകളും, സ്റ്റോറുകളിൽ നിന്നുള്ള മെറ്റീരിയൽ ഇടപാടുകൾ, സെക്ഷൻ സ്റ്റോറിലെ മെറ്റീരിയൽ ഇടപാടുകൾ, വർക്ക് മെഷർമെന്റ്, ബിൽ തയ്യാറാക്കൽ, ഡിജിറ്റൽ എം ബുക്ക് (Mbook) തുടങ്ങിയ എല്ലാ പ്രവർത്തനങ്ങളും കൈകാര്യം ചെയ്യുവാൻ കഴിയുന്നു. മെയിന്റനൻസ്, വർക്ക് ഡെപ്പോസിറ്റ് എന്നീ പ്രവൃത്തികളുടെ എസ്റ്റിമേറ്റ് തയ്യാറാക്കൽ മുതൽ വർക്ക് മെഷർമെന്റ് ബിൽ തയ്യാറാക്കൽ വരെയുള്ള എല്ലാ പ്രവർത്തനങ്ങളും കൈകാര്യം ചെയ്യുവാൻ കഴിയുന്നു. മാത്രമല്ല ARU - കളിലെ എല്ലാ വരവ് ചെലവ് ഇടപാടുകൾ കൈകാര്യം ചെയ്യുന്നതിനും ഇതിലൂടെ സാധിക്കുന്നു. ശമ്പള മാനേജ്മെന്റ്, പെൻഷൻ മാനേജ്മെന്റ്, NPS മാനേജ്മെന്റ്,</p>

			<p>വെൽഫെയർ മാനേജ്മെന്റ്, GPF, ജനറൽ ട്രാൻസ്ഫർ മാനേജ്മെന്റ്, പെർഫോമൻസ് അപ്രെസെൽ മാനേജ്മെന്റ്, GPF ലോൺ, പ്രോപ്പർട്ടി സ്റ്റേറ്റ്മെന്റ്, ഇംപ്രെസ്സ്, മുതലായ സംവിധാനങ്ങളും ഇ.ആർ.പി.യിൽ ലഭ്യമാക്കിയിട്ടുണ്ട്.</p> <p>പർച്ചേസ് ഓർഡർ ട്രാക്കിംഗ്, ഏത് മാനേജ്മെന്റ് തലത്തിലും തത്സമയ സ്റ്റോക്ക് നിരീക്ഷണം (ആവശ്യവും ലഭ്യതയും) ഡിജിറ്റൽ എം. ബുക്ക്, ഡിപ്പാർട്ട്മെന്റ് വർക്കുകളുടെയും കരാർ ജോലികളുടെയും പുരോഗതി നിരീക്ഷണം. ഓട്ടോമാറ്റിക് ബാങ്ക് അനുരഞ്ജനം, ജീവനക്കാർക്കായുള്ള പി. എഫ് അഭ്യർത്ഥന, വാർഷിക പ്രകടന വിലയിരുത്തൽ (APAR) മുതലായവ പ്രസ്തുത സോഫ്റ്റ് വെയർ സംവിധാനം നടപ്പിലാക്കിയത് മൂലമുള്ള പ്രധാനപ്പെട്ട നേട്ടങ്ങളാണ്. ഉപഭോക്താക്കളെ സംബന്ധിച്ച് മാനേജ്മെന്റ് തലത്തിൽ വിശകലനം ചെയ്യുന്നതിനുള്ള സംക്ഷിപ്ത വിവരങ്ങൾ ERP ഡാഷ് ബോർഡിൽ ലഭ്യമാക്കിയിട്ടുണ്ട്. ജീവനക്കാരെ സംബന്ധിക്കുന്ന അവശ്യ വിവരങ്ങളും ഇത്തരത്തിൽ ഡാഷ് ബോർഡിൽ ലഭ്യമാണ്.</p> <p>15.07.2023-ൽ കൂടിയ കെ.എസ്.ഇ. ബി.എൽ ഡയറക്ടർ ബോർഡ് യോഗത്തിൽ ഇ .ആർ.പി.-യുമായി ബന്ധപ്പെട്ട വിഷയത്തിലുള്ള ചുവടെ ചേർക്കുന്ന തീരുമാനങ്ങൾ എടുക്കുകയുണ്ടായി:</p> <p>1. ട്രാൻസ്മിഷൻ(Transmission), ജനറേഷൻ(Generation) എന്നീ ബിസിനസ്സ് യൂണിറ്റുകളിലേക്ക് ഡിസ്ട്രിബ്യൂഷൻ (Distribution) എസ്.ബി.യു.-ൽ (SBU- Strategic Business Unit) ഇതിനകം വിന്യസിച്ചിട്ടുള്ള സമഗ്രയിലെ (SAMAGRA)മൊഡ്യൂളിൽ വിന്യസിക്കുവാൻ തീരുമാനിച്ചു.</p>
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				<p>2. കെ.എസ്.ഇ.ബി.എൽ-നുള്ള ഡാറ്റാ അനലിറ്റിക്സിനായി M/s ICFOSS/Digital University-യുമായി ബന്ധപ്പെടാനും തീരുമാനിച്ചു. കെ.എസ്.ഇ.ബി.എൽ-ൽ ഇ.ആർ.പി സംവിധാനത്തിന്റെ കൂടുതൽ വികസനം ഈ മേഖലയിലെ വിദഗ്ദ്ധരായ ബാഹ്യ ഏജൻസികളെ (External Agency) ഏൽപ്പിക്കുവാൻ തീരുമാനിച്ചു.</p> <p>3. ഐ.ടി ഉപദേശക സമിതിയുമായി (IT advisory Committee) കൂടിയാലോചിച്ച് സമഗ്ര ആപ്ലിക്കേഷനും , കെ.എസ്.ഇ.ബി.എൽ-ൽ പ്രവർത്തനക്ഷമമായ ഐ.ടി ആപ്ലിക്കേഷനുകളും വിലയിരുത്തുവാനും, കെ.എസ്.ഇ.ബി.എൽ.-ൽ ഒരു ഇ.ആർ.പി സംവിധാനം നിർമ്മിക്കുന്നതിനുള്ള ഓപ്പൺ ടെൻഡറിന് പോകുവാനും തീരുമാനിച്ചു.</p>
	8	Power Department	The Committee recommends that there should be a co-ordination between the State Electrical inspectorate department and KSEBL so that KSEBL can actively involve and take necessary steps to avoid delay in matters like conversion of HT connections to LT connections.	KSEBL is now working in close co-ordination with State Electrical Inspectorate and issues are being sorted out as and when it arises.
	9	Power Department	The committee criticizes the deficient purchase procedures carried out by KSEBL in the purchase of fuel from	The present practice followed in KDPP, Nallalam is strictly as envisaged in the original agreement. The proposal for invoicing the fuel from Kochi is to avoid Excise duty on transportation cost as recommended by the audit will be

			<p>Bharat Petroleum Corporation Limited Nallalam and Kochi Refinery Limited. It recommends that such lapses should not be repeated in future and that the purchase procedure should be amended so as to avoid further loss to the Board. The committee also wants KSEBL to view the audit observation more seriously.</p>	<p>beneficial only if M/s BPCL accepts the present agreement, terms and conditions without any modifications in invoicing the same from Kochi. IN the present billing pattern, there is a loss of Rs. 129.67/MT on account of the duties on transportation cost and, if Board opts for the billing pattern as suggested by the Audit, there will be a financial loss of Rs. 583.33/MT.</p> <p>With reference to the above it is stated that in future utmost care will be taken in changing/making any modifications if any to the original agreement executed with the contractor.</p> <p>It is also informed that KSEBL always view the audit observations seriously.</p>
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Thiruvananthapuram  
17.09.2025.

**E.Chandrasekharan**  
Chairperson  
Committee on Public Undertakings



## **ANNEXURE – I**

### **COMPLETED PROJECT**

**1. Adyanpara SHEP (2x1.5 MW + 1x0.5 MW)/ 9.01 Mu-**

- Agreement executed on : 29.01.2013
- Official date of commencement : 17.01.2013
- Project Commissioned on : 03.09.2015

**2. Kakkayam SHEP (2x1.5MW)/10.39 Mu-Project commissioned on 16.07.2018**

- Agreement executed on : 07.11.2012
- Contract Amount : Rs.97472699/-
- Actual date of commissioning : 16.07.2018

**3. Chimmony SHEP (1x2.5 MW)/ 6.7 Mu**

- Agreement executed on : 24.07.2012
- Official date of commencement : 22.07.2012
- Project Commissioned on : 03.09.2015
- ToC issued on : 23.05.2016

**4. Barapole SHEP(3x5MW)/ 36 Mu-**

- Agreement executed on : 07.09.2012
- Scheduled date of completion : 04.10.2014
- Project Commissioned on : 29.02.2016
- ToC issued on : 16.01.2020

**5. Peechi SHEP (1x1.25 MW)/3.315 Mu-**

- Agreement executed on : 15.07.2010
- Scheduled date of completion : 05.11.2011
- Date of commissioning : 07.01.2013
- TOC issued on : 22.01.2014

**6. Vellathooval SHEP ( 2 X 1.8 MW)/ 12.17 Mu-**

- Agreement executed on : 07.03.2013
- Official date of commencement : 14.03.2013
- Project commissioned on : 08.09.2016
- ToC issued on : 03.11.2016



**7. Perunthenaruvi SHEP (2x3 MW)/ 25.77 Mu-26.06.2017.**

Revised Administrative Sanction for the work obtained vide B.O (FB) No.2958/2009 (GPC1 /128/2004) - 18.11.2009 for Rs 6790 lakhs including IDC @10%.

- E&M works agreement executed on : 24.08.2011
- Official date of commencement : 25.08.2011
- Actual date of completion (both the units were synchronized to the grid) : 12.06.2017
- Toc was issued to the firm :w.e.f 01.08.2019

**ONGOING PROJECTS**

**Details of E&M work**

**1. Poringalkuthu (1x24MW)/ 45.02 Mu**

Date of commencement -10-10-2014

Time extension for completing the E&M works extended upto 30/04/2020. E&M works are under progress. Time extension given by the Board upto 30.09.2020 vide B.O(FTD) No.232/2020/D(GE)/G2/PGL/2019-20/TVM dated 25.03.2020.

Physical Progress of E&M works : 89%

Civil- 89.12%

Financial Progress:

E&M- 77.98%

Civil- 77.46%

**2. Bhoothathankettu (3x8MW)/ 83.5 Mu**

E&M contractor - M/s.SSEB-Zhaoyang Consortium

Contract Amount - Rs.81.80 Cr

Date of commencement -05-12-2015

Time extension for completing the E&M works extended upto 31/12/2020 is under process.

Physical Progress of E&M works : 86.17%

Financial Progress:70.332%

**3. Upper Kallar (2x1MW)/ 5.14 Mu**

Date of commencement -08-12-2016

scheduled date of completion-14-08-2018

Time extension for completing the E&M works upto 30.09.2020 is under process.

Physical Progress of E&M works : 41%

Financial Progress:

E&M- 59.33%



**4. Chathankottunada Stage II (3x2MW)/ 14.76 Mu**

Date of commencement -30-03-2019

Scheduled date of completion-30-03-2021

Physical Progress of E&M works : detailed engineering in progress

Financial Progress:

E&M- nil

**TENDERING WORK UNDER PROCESS**

**1. Peruvannamuzhy (2x3MW)/ 24.70 Mu**

Civil works awarded to M/s. TVPPL-KSK-SSEV Consortium, Hyderabad and work is progressing.

Civil Progress-16.05%

**E&M works**

E-Tender for E&M works to be invited with modified tender conditions which is under consideration of Board.

**2. Pazhassi Sagar (3x2.5MW)/ 25.16 Mu**

Civil works awarded to M/s R.S Development & Constructions India (P) Ltd. Excavation in progress. Scheduled date of completion is 24.04.2020.

**E&M works:**

E-Tender for E&M works to be invited with modified tender conditions which is under consideration of Board.

**3. Thottiyar (1 X 30 MW + 1 X 10 MW)/ 99Mu**

The original combined contract for execution of Thottiyar HEP was foreclosed due to various reasons. KSEBL accorded Administrative Sanction for the balance works for an amount of Rs.280 Cr and sanctioned to invite separate tenders for the execution of balance Civil and E&M works at the risk and cost of M/s CPL as they have breached the terms of the foreclosure agreement of Thottiyar HEP.

Civil works- The Civil portion of balance works of Thottiyar HEP was entrusted with M/s PRIL-SSIPL Consortium for Rs.97,76,73,638/- on 05.01.18 with completion period of 26 months and the work is progressing.

**E&M works:**

Board decided to carry out E&M works departmentally. Tender invited and PQ bid evaluation under process.



#### **4. Pallivasal Extension Scheme (2X30MW)/ 164.9Mu**

The Government as per G.O(Ms)No.10/2018/PD dated 10.07.18 have directed to retender the balance works of Pallivasal Extension Scheme at the risk and cost of the contractor M/s ESSAR-DEC-CPPL consortium.

As per B.O.(DB) No.221/2020 (D(GE)/G2/PES/2019-20) Thiruvananthapuram dated 19-03-2020 accorded sanction for the revised cost estimate of Rs.144 Cr. for the balance work of Pallivasal Extension Scheme with split up of Civil works-Rs.73 Cr. & E&M works 71 Cr. Also accorded sanction to invite tender with modified commercial & PQ conditions on reverse bidding basis taking Rs.71 Cr., as the cap for the balance E&M work, excluding amount for execution of PLCC system.

#### **TO BE TENDERED**

1. **Chinnar 2x12MW/ 76.45Mu-** The tender documents for the E&M works was prepared and forwarded to CE(Civil Investigation & Construction-Central) on 22.04.2020, as directed to invite combined tender.
2. **Anakkayam SHEP 3x2.5 MW/ 22.835Mu-** Draft tender documents of E&M works submitted to Chief Engineer (Civil-I&CC) Action is being taken by the Chief Engineer (Civil-I&CC) for inviting tender on Turnkey basis as per B.O(DB) No.542/2109(DGC/AEEV/AKYM/2014) dated 12.07.19.
3. **Upper Sengulam SHEP Stage I 1X24 MW / 57.09 Mu-**  
Revised estimate of E&M forwarded to the Chief Engineer (CC) South, for inviting turn key tender.
4. **Valanthode 3x2.5 MW (14.751 Mu)**  
For the finalization of access road to Power House, a modified proposal of PH layout has been suggested from field considering the geographical conditions whereby the switchyard can be located at a more convenient location.
5. **Poovaramthode (2x1.5 MW)/ 5.88 Mu & Ollikkal SHEP (5MW-2X2.5MW)/10.26 Mu**  
A.S obtained for 107.643 Cr for implementation of Ollikkal & Poovaramthode vide B.O (DB) No.181/2020(DGC/AEE III/OLKL & PVM/2015 TvpM dated 13.03.2020. Cost Estimate amounting to Rs. 20.17 Cr submitted to CE(C-C-N).
6. **Maripuzha (2x3 MW)/ 14.84 Mu-** Draft tender documents of E&M works submitted to civil wing. Tender was invited by CE(C-C-N) and pre-bid queries of E&M part were furnished to CE(C-C-N).



### DPR APPROVED

1. Pasukkadavu (2x2 MW) /10.34 Mu
2. Chathankottunada SHEP Stage I 2x2.5 MW/ 12.06+2.4 Mu
3. Deviyar 1x24 MW/
4. Keerithodu SHEP(2x6 MW)

### UNDER DPR PREPARATION STAGE

1. Chembukkadavu III(3x2.5 MW)
2. Chembukkadavu IV (2x650 kW)
3. Upper Sengulam II (1x24 MW)/26.50 Mu
4. Moorikadavu SHEP(2x0.75MW)
5. KALLAR(4MW-2X2MW)
6. TWIN KALLAR (2x30MW) Multipurpose
7. Neyyar (1x1.1 MW)
8. Pambala SHEP (2x5 MW)
9. Marmala SHEP 4MW
10. Mankulam (1x20 MW)
11. Thomankuth SHEP(1x1.5 MW)
12. Ladrum SHEP(1x1.75 MW)

### R & M WORKS

#### **1. Idukki HEP(3x130MW)**

#### **RENOVATION AND MODERNISATION OF 1<sup>ST</sup> STAGE MACHINE (3x130MW)**

R&M work of Idukki 1<sup>st</sup> stage machines awarded to M/s GEPL on 24.09.2016. The Unit #3 machines put back into service on 07.03.2019. R&M works of Unit #1 & #2 are in final stage.

#### **2. Sholayar HEP (3x18MW) E&M Part**

Renovation of E & M part of Sholayar HEP awarded to M/s. FEPL-FUYUAN Consortium for Rs 61.51 Crore on 30.06.2015. The agreement executed on 06.07.2015. The contract period has been extended up to 30.04.2020. The renovation of E& M part of Unit#3 is completed and was taken over by KSEBL on 18-09-2019. The Unit No 2 taken over after renovation on 19.01.2020. Overall progress 80%. Physical progress of unit 1 is 50%.

#### **3. Sholayar Penstock works**

The Renovation of Penstock and Allied works included in the R&M works of the Sholayar (3x18



MW) was awarded to M/s PES Engineers, Private Limited, 1st floor Pancom Chambers, Hyderabad for an amount of Rs.34,81,52,194/- as per W.O No 1/2017-18 dated 04.04.2017 and agreement was executed on 29.04.17. Amendment No.1 to the Work Order No.01/2017-18/ dated 04/04/2017 of CE(PED) was issued for Revised Contract amount of Rs. 28,85,78,751/-. The period of completion of the work is 24 months. The contract period has been extended up to 15.04.2020. Unit #3 penstock work completed on 22/12/2018. Unit # 2 penstock work completed 24.10.2019 and ready for Commissioning. Unit #1 Fabrication of pipes in progress.

The firm vide their letter dated 08.05.2020, requested time extension upto 31.08.2020, which is under process.

Physical progress – 76.19%

(Unit #3 -100%

Unit #2 -100%

Unit #1 - 55%)

Financial progress- 75%

#### **4. Sengulam Pump House**

Sengulam pump house, situated near the Pallivasal power house at Chithirapuram is a pumping station to deliver the tail race water of 37.58MW Pallivasal powerhouse to the Sengulam balancing reservoir which is the major water source of Sengulam power house at present. In the absence of pumping KSEBL will be deprived of 48MW. The old pump house consists of 2Nos 1020HP synchronous Induction motors and vertical turbine pumps having a delivery of 150 Cusec each. The Pump house has commissioned during 1950s. The head of pump house and Sengulam Balancing reservoir is 11.89metre. In each original plant there were 3 pumps and now they are out of service and the existing two pumps are having a lot of problems from control side and due to ageing and corrosion.

The renovation work is awarded to Sree Saravana Industries Private limited. Work orders for civil E&M works were issued vide Supply order no 1A/2016-17dt.07.06.2016 (E&M Equipment and penstock supply,) Work order no 1B/2016-17dt.07.06.2016 (E&M Equipment and penstock erection works) and Work order no 1C/2016-17dt.07.06.2016 (civil works). An agreement is executed vide Agreement No CEPED/02/2016-17Dt.15.06.2016, amounting Rs.20, 38, 98, 642/- (Rupees Twenty crores thirty eight lakhs ninety eight thousand six hundred and forty two only).

The estimate is revised with GST including supply of material and E&M erection works. Amendment order no for S.O & W.O is No.197/AE6/2013/CE PED/1252 Dt.23/02/2018. The revised amount of contract is Rs22, 66, 41,505.23 (approx.22.66crores) Split up details.



1. Supply of E&M Equipment and Penstock-Rs.166379297.23
2. Erection of E&M Equipment and Penstock Rs.10246471.00
3. Civil worksRs.50015737.00

Total=Rs.22,66,41,505.23

Supplementary agreement No1 of previously mentioned agreement is executed on 01-03-2019 amounting Rs1,76,47,463/-

Supplementary agreement No2 of Agreement No CEPED/02/2016-17Dt.15.06.2016 for excess civil works amounting to Rs.1,92,81,000/-has been executed with contractor on 15.10.2019. (work order on 25.09.2019). Since the work could not be completed in time (31.03.2020) due to extra excavation work and adverse site condition.

Date of commencement -15.06.2016

Schedule date of completion-27.01.2018

Extended date of completion- 31-03-2020

The work is under progress. Physical progress of civil works-86%

E&M supply-76.19%

E&M Erection-17.72%

Financial Progress

Civil-72.625%; E&M-75%

### RMU WORKS

#### **Kuttiyadi HEP (3x25 MW to 3x27.5 MW)**

As per B.O. (DB) No. 1519 /2017 (DGE)/G2/ RMU-KTDY/2017-18) dated 14-06-2017 Administrative Sanction was accorded for the RMU works, at an estimated cost of Rs. 327.20 Crore (Hydro mechanical and Electrical works- Rs. 169.55 Cr, Laying of penstock- Rs. 150 Cr, Other works- Rs. 8.85 Cr less estimated cost for generated scrap-Rs.1.2 Cr). E&M works were retendered with PAC of Rs. 156.20 Crore on 27-11-2018. LOA issued to L1 bidder M/s. BHEL on 07.09.2019 for an amount of Rs. 89,82,39,005/- as per B.O. (DB)No. 680 /2019 (D(GE)/G2/RMU-KTDY /2019-20) dated: 05.09.2019. LOA issued on 07-09-2019. Detailed work order issued on 10-12-2019 and agreement executed on 13.12.2019.

