

**MINUTES OF THE 6<sup>th</sup> MEETING OF THE HIGH LEVEL EMPOWERED  
COMMITTEE (HLEC) OF REBUILD KERALA INITIATIVE (RKI) HELD ON  
FRIDAY, 11<sup>TH</sup> OCTOBER, 2019  
AT CHIEF SECRETARY'S COMMITTEE ROOM, GOVERNMENT SECRETARIAT**

The meeting started at 12.15 PM with the Chief Secretary in the chair. The list of participants is attached.

Chief Secretary welcomed the participants. The meeting proceeded to discuss the agenda items.

**1. Actions taken subsequent to 5<sup>th</sup> HLEC Meeting held on 06/07/2019.**

The Committee took note of the report on action taken. Based on discussions, the following decisions were taken:

(i) PWD shall prepare DPRs for the projects approved by HLEC and the Government vide G.O. dated 13/08/2019. DPR's for the two projects for which 'in-principle' approval was accorded vide G.O. (Ms.) 212/2019/RD dated 02/07/2019 may also be prepared.

***[Action: Prl.Secretary, PWD]***

(ii) Project proposals for solid & liquid waste management may be prepared urgently and placed before HLEC.

***[Action: ACS, LSGD]***

(iii) Preparation of the detailed project report of the new two-lane bridge across Kadamprayar river which was approved by the HLEC in the previous meeting should be expedited.

***[Action: Prl. Secretary, PWD]***

(iv) The Secretaries of departments concerned shall furnish remarks/comments on the draft ToRs submitted to them by RKI and shall suggest the mechanism for procurement for the studies, without further delay so that RKI can go ahead with the process of commissioning the studies.

**[Action: ACS(Agriculture), Prl.Secretary (Animal Husbandry & Dairy),  
Prl. Secretary (Environment), Prl. Secretary (Fisheries), CEO (RKI)].**

## 2. **Modification of minutes of HLEC meeting held on 06/07/2019 & revision of approved list of roads under Public Works Department.**

CEO, RKI brought to the attention of HLEC that, after considering the proposal from PWD, the Committee in its meeting held on 06/07/2019 had decided as follows:

*“i. HLEC approved the list of roads (placed as Annexure 1 to the minutes) to be upgraded under RKI, and the project components and cost for signing of agreement with KfW. The total project cost for PWD would be **Rs. 1900 crore** from DPL and **Rs. 1800 crore** from KfW.*

*ii. HLEC also approved road works for an amount of **Rs. 300 crore** for the FY 2019-2020 utilising DPL funds.”*

He apprised the Committee that though the PWD had requested the HLEC to approve the 31 roads identified covering 818.87 km for considering their upgradation under Rebuild Kerala Initiative and to provide Rs.1200 crore from DPL for the project, the HLEC decided to approve Rs.1900 crore for the project from DPL and Rs. 1800 crore from KfW. Later, Minister for Public Works informed that the approved list contains some of the roads which were already included in various other funding schemes and that some scattered road parcels are also included in the list, and instructed that the approved list may be revised removing such roads from the list. The matter was taken up with PWD and that department informed that roads with serial no. 12,22,23,24 in the list may be omitted from the G.O.

CEO, RKI requested the HLEC to give its approval for the modification of the minutes in light of the above.

### **Decision taken:**

HLEC considered the matter and gave approval to modify the minutes of 5<sup>th</sup> HLEC meeting as follows:

*“i. HLEC approved the list (placed as Annexure 1 to the minutes) of roads, **except roads at serial nos. 12,22,23,24**, to be upgraded under RKI, and the project components and cost for signing of agreement with KfW. The total project cost for PWD would be **Rs.1200 crore** from DPL and **Rs.1800 crore** from KfW.*

ii. HLEC also approved road works for an amount of Rs.300 crore for the FY 2019-2020 utilising DPL funds.”

### **3. Presentation of Prioritized Project Proposals/ Revised Proposals/ DPRs by Departments.**

#### **i. Forest Department:**

Based on the decision taken in the meeting of the HLEC held on 06/07/2019, Government as per G.O. (Ms) No. 25/2019/P&EA dated 13.08.2019 had accorded sanction for the project proposal submitted by the Forest & Wild Life Department to the tune of Rs. 130.40 crore to be taken up under RKI during 2019-20. Now, the Department has submitted DPR for the project titled “CONSOLIDATION OF FOREST AREAS OF KERALA UNDER THE RKI” before HLEC for consideration.

The DPR *inter alia* includes the financial breakup, institutional arrangements, project management arrangements, mode of voluntary relocation of prioritized settlements, acquisition of private estates, consolidation of mangroves, one feasibility study and two pre-investment scoping studies.

CCF also pointed out that some errors related to the projects sanctioned had occurred in the Government order issued on 13/08/2019 with respect to projects of Forest Department and requested to rectify the errors.

#### **HLEC considered the project report in detail and decided as follows:**

*1. HLEC approved the prioritized DPR including the financial breakup, institutional arrangements, project management arrangements, mode of voluntary relocation of prioritized settlements, acquisition of private estates, consolidation of mangroves, one feasibility study and two pre-investment scoping studies contained therein. HLEC also accorded sanction for the implementation of the project for Rs.130.40 crore in the financial year 2019-20 as below:*

- a) Relocation of private settlements from forests: Rs.105.9176 crore*
- b) Acquisition of private estates from inside the forests. Rs.18.80 crore*
- c) Consolidation of mangroves: Rs. 5.14 crore*

- d) *Feasibility study on swapping the habitations of forest-dwelling communities as a strategy for mitigating human-wildlife conflict, disaster-risk reduction and improving access to livelihoods & welfare measures: Rs.0.221 crore*
- e) *Scoping study to develop people inclusive livelihood-based governance strategy for the long-term conservation of mangrove forests of Kerala: Rs. 0.164 crore*
- f) *Scoping study to assess the hydrological services provisioned by the forest ecosystems of Kerala: Rs.0.161 crore.*

*RKI will issue orders of Administrative Sanction to the above effect.*

**[Action: CEO, RKI]**

*2. Forest & Wildlife Department shall submit a note to RKI detailing the rectification proposed in the G.O. issued on 13/08/2019.*

**[Action: Forests & Wildlife Department]**

#### **ii. Kerala State Bio-diversity Board**

Based on the decision in the 5<sup>th</sup> HLEC meeting and the G.O. dated 13/08/2019, the Kerala State Bio-diversity Board submitted the Project reports on proposals to the tune of Rs.5 crore for the approval of HLEC as follows:

- a) Database of tradable/commercially potential bioresources: Rs. 1 crore
- b) Riverine biodiversity rejuvenation : Rs. 2 crore
- c) Conservation of agrobiodiversity : Rs. 2 crore

**HLEC considered the proposal in detail and decided as follows:**

*HLEC approved the project components and cost thereof presented by the Kerala State Bio-diversity Board to the tune of Rs.5 crore. RKI will issue orders of Administrative Sanction to the above effect.*

**[Action: CEO, RKI]**

#### **iii. Fisheries Department**

Based on the decision in the 5<sup>th</sup> HLEC meeting and the G.O. dated 13/08/2019, the Director, Fisheries submitted the DPR for the project of “Fish production in cage through participatory approach with beneficiaries of scheduled tribe in Banasurasagar Reservoir, Wayanad District” at a total

project cost of Rs.3.2 crore, for approval of HLEC. The Committee considered the project report and decided the following.

**Decisions Taken:**

HLEC considered the DPR, “Fish production in cage through participatory approach with beneficiaries of scheduled tribe in Banasurasagar reservoir, Wayanad district” at a total project cost of Rs.3.2 crore, submitted by Fisheries department and approved it. RKI will issue orders of Administrative Sanction to the above effect.

**[Action: CEO, RKI]**

**iv. LSGD Roads**

Based on the decision taken in the meeting of the HLEC held on 06/07/2019, Government had approved list of LSGD roads from eight districts to be taken up under RKI, vide G.O. (Ms) No.25/2019/P&EA dated 13/08/2019. The Project Director, PMU-LSGD presented the Preliminary Project Reports prepared for three districts viz, Pthanamthitta, Idukki and Wayand. The proposed model for the development is based on **Design Build Operate and Transfer (DBOT) mode**. The salient features of the projects are as follows:

<b>Salient features of the road projects</b>	
Minimum Width of Road Considered	5.5m
Method of preparation of Prioritized Project Proposal	Type Design Based on Site Perusal
Mode of Procurement	By Tender Using Per km rate based on Type Design
Mode of Contract	DBMT (Design Build Maintain and Transfer)
Performance Guarantee Period	10 Years for Flexible Pavement 15 Years for Rigid Pavement
Districts included	Pathanamthitta, Idukki and Wayanad
Length and estimated cost	26630.37 Lakh Rupees for 218.29 km Road

The PPR provides details on the type designs and adopting suitable site specific alternate sustainable technologies. Since the roads are short, they are grouped into clusters based on block boundaries and regional setting. The approximate cost for each road and for each cluster is included in the PPR. The contracting methodology is proposed in such a way that the successful bidder is required to adopt suitable design and prepare pavement design, along with alignment drawings and detailed design of CD structures. The Project Director proposed that the present system of 5 year maintenance period after completion in PMGSY roads can be extended to 10 years for bitumen roads and 15 yrs for cement concrete roads under RKI.

ACS (Finance) opined that details such as terms of payment, authority which issue Technical sanction etc. should be taken care of. Chief Secretary expressed concern over the delay in preparing the DPRs for the projects already approved by the HLEC and directed to expedite the same.

**Decisions Taken:**

HLEC approved the PPRs presented by PMU-LSGD. The RKI will issue Administrative sanction for the set of roads covered in the PPRs (*list of roads clusterwise is annexed*) so that Detailed Engineering Reports can be prepared after doing detailed investigation of the roads involved; based on which the works will be tendered latest by 15<sup>th</sup> November.

**[Action: CEO, RKI; ACS (LSGD)]**

**v. Kudumbashree**

The HLEC, in its previous meeting, had decided to approve Rs.250 crore in the present financial year. HLEC also directed that priority should be given to undertake skilling and entrepreneurial developmental programmes which are not currently undertaken by any other department. The Committee had directed ACS (LSG) to finalize the list of projects to be approved within the overall envelope approved above, and submit the list to HLEC. As per G.O. (Ms.) No. 25/2019/P&EA dated 13/08/2019, HLEC shall submit to Government, recommendations regarding approval of funds under DPL after considering project proposals submitted to HLEC on livelihood under Kudumbashree.

Accordingly, Kudumbashree presented project reports to the tune of Rs.250 crore. Financial outlay abstract of the project is as given under:

No.	Item	TOTAL(In crore)
1	Disaster Relief	45.00
2	Livelihood Programmes	205.00
	<b>GRANT TOTAL</b>	<b>250.00</b>

Financial outlay split-up of the project, component wise is extracted below:

**i. Disaster Relief (Rs.45.00 crore):**

SL. No.	Items	Units / Components	Number of Beneficiaries	Rate per Unit	Total (Rs.crore)
1	Crisis Management Fund	10,000 JLGs	50000 Nos.	Rs.20,000	20.00
2	Vulnerability Reduction Fund	25,000 NHGs	1,50,000 No.s	Rs. 10,000	25.00
	<b>TOTAL</b>		<b>2,00,000</b>		<b>45.00</b>

**Crisis Management Fund** is intended for the affected JLGs for revamping their agricultural activities and to restore the livelihood opportunities. It addresses post-flood aspects such as land reclamation costs, soil fertility, loss on borrowings and collateral damage. The scheme aims to provide financial assistance to 10,000 women farmer groups (50,000 women farmers) for restoration of farm fields and other requirements for cultivation like input, fertilizers, water table improvement, drainage etc. related to flood loss.

25,374 NHGs availed RKLS loan (1.73 lakh members benefited) and 10% of them suffered again in 2019 flood. Due to huge loss of income and

livelihood opportunities they are still under severe financial crunch. Vulnerable NHGs need support; hence corpus of NHG will be very less and will not be able to get either an emergency loan or any bank loan. This will lead them to get in to debt trap. The **Vulnerability Reduction Fund** aims to help enhance the corpus of 25,000 NHGs with Rs.10,000/- per NHG.

**ii. Livelihood Programmes (Rs.205 crore):**

SL. No.	Items	Units / Components	Number of Beneficiaries	Rate per Unit (in Rs)	Total (in crore)
1	Skilling for Wage Employment	10,000 individuals	10,000	60,000	60.00
2	Skilling to Connect to Work	4560 individuals (152 block x 30 people)	5000	10,000	5.00
3	Skilling for Self Employment (ARISE)	10,000 (7000 individuals and 1000 groups x 3 people)	10,000	10,000	10.00
4	Kerala Chicken Project	1000 farms, 250 sales units, 3 breeder farms	5000		22.00
5	Egg Value Chain Project	1000 egg collectors, 152 packing units, 100000 egg producers and branding	102000		8.00
6	Start up Village Entrepreneurship Programme	16800 enterprises (1200/block x 14 blocks)	20,000	35,000	70.00
7	CEF to CDS	10 M. E. per CDS x 600 CDS will get loan (6000 enterprises)	10,000	500,000	30.00
	<b>TOTAL</b>		<b>1,60,000</b>		<b>205.00</b>

1.The **Skilling for Wage Employment** aims to initiate trade related Skill Development and Placement Programme in the state and to build skills of



10000 youth across the flood affected areas and to ensure suitable wage employment to at least 7000 and self-employment to 3000 youths. The skill sectors include automotive, electrical, electronics, apparel, telecom, tourism, hospitality, security etc. It will provide sustainable livelihood through wage employment, enhance the employability through organised skill training, increase the income of affected poor through structured, market-oriented certified courses that can provide salaried employment and/ or self-employment opportunities and ensure inclusive growth with increased contribution of skilled poor to the economy. Total financial requirement for imparting skill training and placement to 10000 candidates is Rs.61.68 crore, including project cost and support cost. All financial calculation is done based on the guideline developed by MoRD for 'Deen Dayal Upadhyay-Grameen Koushal Yojana' (DDU GKY scheme) and common cost Norms of Ministry of skill development and entrepreneurship. Kudumbashree is the nodal agency for implementing DDU GKY (scheme for Skilling and placement initiative) for Kerala and also has the existing staff structure at State, District, block and panchayath level. Hence there is no need for separate fund allocation for staffing.

2.The **Skilling to Connect to Work** Program acts as an Employment Bridging Program/ Soft Skill Excellence Program for the educated unemployed youth by enhancing their possibilities of getting right jobs. As the first phase, 5000 youth and their families of Kerala would be benefitted out of this program. The budget is estimated at Rs.5 crore at a rate of Rs.10,000/- per beneficiary.

3.The **Skilling for self-employment (ARISE)** project envisages creating a team of multi-task personnel skilled in multiple areas like plumbing, electronics repair, electrical work, essential carpentry and masonry. They will be given exposure to work by involving them in free companies and giving opportunities to gain confidence by doing repair work at household and institutions. Tool kit, identity cards and uniforms will be given to multi-task teams after their training. Trained skilled members will be linked with major companies/ institutions in local area for employment in servicing, maintenance, repair etc. It is proposed to provide skill training for 10,000

candidates. Rs 10 crore will be required approximately for skilling 10000 candidates.

4.The **Kerala Chicken Project** aims to ensure supply of safe wholesome broiler chicken at reasonable price to consumers in the label of Kerala Chicken by Government of Kerala and to develop this sector as a viable livelihood vocation for farmers. The project at present has 1000 members each with average farm capacity of 1000 broilers. It requires weekly supply of 1.5 lakhs Day Old Chicks (DOC) to cater their needs. But there is no sufficient production at present. Parent breeder farm is the limiting factor in producing DOC in broiler industry in Kerala. Hence an environmentally controlled breeder house is proposed which can produce DOC at a cost as low as Rs.15/Chick. This will reduce the production cost which will benefit the broiler farmers and will eventually help control rate structure and health aspects of broiler production. The project expects direct livelihood creation to 1000 families and a resultant turn-over of Rs.150 crore in the annual GDP of the state. The fund requirement is Rs.22 crore.

5.The **Egg Value Chain Project** is an Egg Collection and Marketing System. Average daily production of brown-shelled eggs in Kerala is around one million. As per the sample survey there are around 1.4 million egg producers in Kudumbashree, but there is no proper marketing system. The project envisages to create a better collection and marketing system for eggs and thus complete a value chain system for one million egg/day. The project will benefit 1.4 million families and direct livelihood creation for 1500 Kudumbashree members., which will result in a turnover of Rs.150 crore in the annual GDP of the state. The project cost estimated is Rs.5.80 crore.

6.The **Start-up Village Entrepreneurship Programme (SVEP)** is an existing flagship livelihood support programme under NRLM which promotes entrepreneurship among rural poor, in non-farm sector. Based on the success of implementing the SVEP and analysing the results, it has been decided that SVEP model based support will be appropriate for the post-flood livelihood support in the identified blocks. The proposed project is along SVEP lines, but is expected to promote enterprises across farm and farm based, animal rearing and animal products and non-farm sectors. The project envisages to promote 16,800 enterprises across 14 flood-

affected blocks through around 300 Micro Enterprise Consultants (MECs) trained as part of the project. Total budget requirement is Rs.70 crore at Rs 5.0 crore per block. Of this, a total of Rs.42 crore will be Community Enterprise Fund (CEF) to be maintained by the block level community institutions at Rs 3.0 crore per block.

**7. Community Enterprise Fund (CEF) to CDS :** Kudumbashree through its vast network of more than 2.9 lakh NHGs, acts as one of the prominent players in providing credit facility to the community. Over the years Kudumbashree community members have pooled more than Rs.4,572 crore as thrift. Leveraging the thrift, and through creation of efficient institutional architecture, Kudumbashree has been able to receive credit of more than Rs.13,738 crore from the formal credit sources. The strength of the network and the trust of the banks on the Kudumbashree network, reinforced through a 98% bank loan repayment rate for NHG bank linkage exemplify the trust factor. However, based on the present data and the demand generated through the Resurgent Kerala Loan Scheme (RKLS), it has been noted that the credit demands of the community are still unmet. The unmet demands of the community are further serviced through informal sources leading to greater debt burden among the community. Acknowledging the inefficiencies, Kudumbashree proposed to develop an intervention viz. the **Community Enterprise Fund**, aimed at providing direct credit to the NHG from a pool fund managed by the mission. Through this intervention, an amount of Rs.300 crore will be managed as community fund, to be provided as direct linkage to selected CDS (Community Development Society) and eligible high value NHG from the network under the Community Investment Fund Model (CIFM). The identification of the CDS will be based on the grading score received by the CDS with special attention given to the microfinance activity. The Community Enterprise Fund will cater to 600 CDSs, each CDS will support 10 enterprises; thus, a total of 6000 Enterprises will receive financial assistance. 20,000 women will get benefit from the project. Unlike funds that are primarily for building institutions of the community, the CEF targets specific income generation activities for members of the community. The total cost of the project is **Rs.30 crore** at the rate of Rs.5 lakh for 600 CDS. Kudumbashree also submitted proposal for the establishment of project management unit (PMU) comprising of a

Managing Director, One Programme Manager and two Assistant Programme Managers. Other administration costs of PMU also need to be taken care of. The Expenses on part of the staff for the PMU is budgeted for the first two years. Later the PMU operation has to be financed from the income generated through the interest component of project. For the first two years, **Rs.2.5 crore** is estimated as total admin. cost.

The Committee considered the project report in detail. CEO, RKI apprised the Committee that the RKI-IC is of the opinion that administrative expenses for implementation of the programme may not be met from the RKI funds which may be born by the organisationn from its own sources. ACS, LSG submitted that the Kudumbasree is already implementing many of the programme at lower scale and the present proposal is to augment the programme so as to reach out to more areas and beneficiaries. For this, neccessary support towards the administrative cost be extended from RKI as part of the project.

**Decisions taken:**

HLEC, after considering the project presented by Kudumbashree in detail, approved the same. It was also decided that component of administrative cost outlined in the project components can be met from the project fund, provided the support from RKI will be limited to the augmented part of the project wherever applicable.

**[Action: CEO, RKI]**

**vi. Clean Kerala Company Ltd.**

The 5<sup>th</sup> HLEC meeting had decided that projects worth Rs.50 crore for Clean Kerala Company Company (CKC) may be taken up in the present financial year, under DPL. ACS (LSG) was directed to prepare the final list of projects to be approved under the total allocation and the package mentioned above and submit to HLEC. As per G.O. (Ms.) No. 25/2019/P&EA dated 13/08/2019, Government had ordered that HLEC shall submit to Government, recommendations regarding approval of funds under DPL after considering project proposals submitted to HLEC on Solid and Liquid waste treatment.

Accordingly, the Managing Director, CKC Ltd. presented before HLEC, the project reports on prioritized project proposals for approval.

**1. Sanitary Land fill for solid waste Management, storage and disposal facility for e-hazardous waste:**

It has been proposed to construct world class scientific sanitary land fill in three regions of the state preferably in the districts Kasargode, Thrissur and Pathanamthitta, subject to availability of land for handling mixed waste, wet and soiled plastic and other materials, legacy waste kept in dump for decades, sanitary napkins and diapers, waste generated due to natural calamities etc. **Construction of each land fill may approximately cost Rs.300 lakh and the total estimated cost for the entire project will be around Rs.3000 lakh including leachate treatment facility.**

**2. Integrated Plastic waste management Facility:**

The integrated plastic waste management facility is aimed at recycling all types of plastic which will be set up at three regions of the state such as North, South and Central. The search for procurement of land for setting up the facilities are on. The proposed facility will have machineries such as Dry waste sorting conveyor belt system, Fatka machine, Baling machine, Air blowers, shredding machine, Aglo-gattamachine, Extrusion machine, shredder machines for PET bottles etc. The facility has approximately 1500 m<sup>2</sup> of built up area. Unit cost is estimated to be around Rs.200 lakh.

**3. Glass waste sorting and segregation facility**

To meet the requirement of glass waste recycling, it has been proposed to set up 3 glass waste segregation and bottle crushing units in three regions of the state. The facilities are proposed to be set up in the industrial parks. Unit cost for the facility is estimated at Rs.150 lakh.

**4. Material Collection facility in government offices**

To make the Government offices and public institutions clean and hygene, the waste generated need to be removed on a regular basis. To begin the process it is proposed to set up Material Collection Facility in Government offices like Government Secretariat, Vikas Bhawan, Swaraj Bhawan, PSC office etc. The bio-degradable and non bio-degradable wastes will be segregated in this facility. Bio-degradable waste will be sent to the

community waste management centres and the non bio-degradable waste will be sent to RRF for processing. Cost of operation and maintenance of the facility will be borne by the concerned department from their budget allocation. The capital investment is requested from the RKI. Approved cost for an MCF with 510 sq ft is Rs. 7.5 lakh.

#### **5.District level sorting and segregation centre**

It has been proposed to set up 14RRF at district level with requisite machineries. The approximate cost of one sorting and segregation centre at District level will be around Rs.200 lakh.

#### **6.Electronic waste recycling facility-land development**

The State Government has allotted 2 acres of land in KINFRA Park at Kuttippuram for setting up an e-waste dismantling and recycling facility. The Company had decided to set up the facility on PPP mode for which RFP is under preparation. The Company requested funds to the tune of Rs.50 lakh for land development and to construct compound wall to protect the boundaries of the land allotted.

Consolidated cost of the proposals and the funds requested from RKI is tabulated below.

Sl. No.	Activity	No of units	Unit cost (Rs in lakh)	Total cost (Rs in lakh)	Requirement of funds for F.Y. 2019-20 (Rs lakh)
1	Sanitary land fill for solid waste management	10	300	3000	2000
2	Integrated Plastic waste management facility	2	200	400	400
3	Glass waste sorting and segregation facility	3	150	450	450
4	Material collection facility in government offices	100	7.5	750	450
5	District level sorting and segregation centre.	14	200	2800	2000
6	Electronic waste recycling facility-land development	1	50	50	50
	<b>Total</b>			<b>7601</b>	<b>5350</b>

### **Decisions taken:**

The HLEC approved the proposals. The Committee also agreed to the proposal of the Company to meet 2% of the project cost towards administrative cost.

Based on the outline presented by CKC, and the approval of HLEC, the matter may be placed before the Council of Ministers for approval. Subject to the approval of Council, RKI-IC will examine the DPR to be prepared by CKC including the availability of land, financial breakup, institutional arrangements, project management arrangements, mode of implementation etc. before issuing Administrative Sanction.

**[Action: CEO, RKI]**

### **vii. Water Resources Department**

The meeting of the HLEC held on 06/07/2019 had decided that Rs.300 crore may be approved for projects under Water Resources department for the present financial year, including 'Room for river project', under DPL funds. It has also directed ACS, Water Resources to finalize the allocation of the fund to projects and schemes to have flexibility, and submit the final allocation to HLEC. Based on the same, the Government as per G.O. (Ms.) No. 25/2019/P&EA dated 13/08/2019, had ordered that HLEC may submit recommendations regarding approval of funds under DPL after considering project proposals submitted to HLEC on Water Resources including Water Supply. Accordingly the Water Resources Department submitted following project proposals for the consideration of HLEC.

#### **1. Completion of nearly completed KWA schemes:**

The proposal is to complete the nearly completed Water Supply Schemes which the KWA has taken up over the years. The proposed schemes will envisage to give 30,700 new connections benefiting about 1.25 lakh flood affected people. Following are the list of schemes to be taken up under RKI.

SI No.	Scheme	District	Estimate (Rs in crore)	New connections envisaged
1	Improvement of WSS to Cheranalloor panchayat	Ernakulam	21	1000
2	Distribution network for RWSS to TV Puram panchayat	Kottayam	10.3	1100
3	WSS to Kaduthuruthy and Adjoining villages	Kottayam	23	2500
4	WSS to Erumeli panchayat-Laying distribution system in zone I part	Kottayam	5.5	800
5	WSS to Pavaratty & Mullassery panchayaths in Chavakkad Taluk-Phase 2	Thrissur	54.8	5000
6	CWSS to Sulthanbathery Municipality, Noolpuzha and Muttill Grama panchayats in Wayanad district	Wayanad	64	20000
7	WSS to Erumeli panchayat-Laying Distribution system in Zone 4 - Kanakapallam	Kottayam	4	300
<b>Total</b>			<b>182.60</b>	<b>30,700</b>

Managing Director, KWA submitted that DER in respect of the above schemes have been available.

**Decisions taken:**

HLEC approved taking up of the schemes listed above with funding support from RKI. KWA should submit Detailed Engineering Report/ DPR in respect of the schemes highlighting the financial breakup, institutional arrangements, project management arrangements, mode of implementation etc. for examination by RKI-IC, before issue of Administrative Sanction for each project.

**[Action: MD, KWA]**

**2. Implementing Solar/renewable energisation at Palakkad District:**

As a pilot, Irrigation Department and KWA proposes to set up a 8 MW Grid Connected Ground Mounted Solar Power Plant in 36 acres of land



available with Irrigation department at Moonkilmada in Chittur Taluk in Palakkad District at an estimated investment cost of Rs. 50 crore.

HLEC considered the proposal in detail. The Additional Chief Secretary (Finance) opined that this type of schemes should be implemented in PPP model like RESCO mode which has been proved to be successful in many parts of the country.

**Decisions taken :**

HLEC decided that this proposal cannot be taken up with RKI funding. The Department may pursue the proposal under RESCO mode, as advised by the Additional Chief Secretary (Finance).

**3. Preparation of DPRs for Sewerage and Septage Management projects in Kozhikode, Kochi and Thiruvananthapuram.**

The proposal is for preparing Detailed Engineering Reports for comprehensive sewerage systems in major cities by KWA at an estimated cost to the tune Rs.17 crore.

**Decisions taken:**

After discussion, HLEC was of the view that decentralised sewerage and septage management would be a more preferred option to centralised systems, in view of the practical difficulties and terrain. However, considering the fact that the Thiruvananthapuram plant is already operational and underutilised, HLEC approved the preparation of Detailed Engineering Report for Thiruvananthapuram, utilising funds of RKI.

HLEC also decided that KWA should have a separate vertical having expertise and a dedicated team to man the sewerage systems for the state, from among the existing staff strength available with the KWA.

**[Action: CEO, RKI; MD, KWA]**

**4. Energy optimization and replacing inefficient pumping systems:**

Kerala Water Authority in collaboration with the Energy Management Centre Kerala (EMC), is conducting the energy audit of the pumping stations where highest energy charges are being paid (20 stations). Based on the findings of the energy audit, replacement of inefficient pumping

system would be arranged by utilising a fund of Rs 7.0 crore to be set apart under RKI.

The Committee considered the proposal. The CEO apprised the stand taken by the RKI-IC that the energy audit and the periodical maintenance of its installations are essentially an internal matter of the organisation which cannot be funded from the RKI. The ACS (Finance), however, pointed out that the proposal assumes significance when considering the fact that the Authority is owing a hefty sum to KSEB towards power tariff. The authority for many reasons find it difficult for raising the required funding for carrying out the energy audit done and upgrade its energy installation with energy efficient models.

**Decisions taken:**

HLEC approved the project proposal viz. "Energy optimization and replacing inefficient pumping systems" at an estimated cost of Rs.7 crore.

[Action: CEO, RKI]

**5. Post Flood Repair and Maintenance of Dams/ Regulators/ Canals/ Irrigation Structures.**

The proposal includes the following structural interventions to build back the infrastructure damaged in the flood at an estimated cost of Rs.107.10 crore.

- 1) Damages of Shutters and hoisting mechanisms of Regulation.
- 2) Damages of body walls of cross drainage works, VCB's etc.
- 3) Damages of abutment structures, guide walls, wing walls etc.
- 4) Damages to river training works.
- 5) Restoration of flood damaged river and canal banks.
- 6) Repairs of canal networks.
- 7) Restore the carrying capacity of major water conveyance systems.

**Decisions taken:**

HLEC approved the project proposal (*Item wise details of the works to be taken up is annexed to this minutes*) at an estimated cost of Rs.107.10 crore.

[Action: CEO, RKI]

## **6. River Basin Conservation and Management Authority (RBCMA): Initial operation/ consulting expenses of RBCMA**

The state is committed to set up a River Basin Conservation and Management Authority (RBCMA). The proposal is to provide funding support from the RKI for necessary Technical Assistance for the same. The CEO, RKI apprised the meeting that the view of RKI-IC in this regard is to explore the possibility of getting required fund from the NHP for the purpose. The CEO also told that since the break up of funds requested is not provided, RKI is not in a position to recommend the same.

### **Decision taken:**

Based on the clarifications given by the ACS (Water Resources) and Secretary (Water Resources), the proposal was approved.

**[Action: CEO, RKI]**

## **7. Micro Irrigation:**

The proposal is for providing community micro irrigation systems in the command areas of three Lift Irrigation Schemes and two other places in Chittur Taluk at an estimated cost of Rs. 20 crore. Component wise details of expenditure proposed are as given under.

<b>Sl.No</b>	<b>Name of Schemes.</b>	<b>Ayacut (Ha)</b>	<b>No.of Beneficiaries</b>	<b>Estimated Cost (crore)</b>
1.	Providing community micro irrigation in Moongilmada LIS	72.50	65	6.79
2.	Providing community micro irrigation in Tharakanchalla LIS	94	45	3.50
3.	Providing community micro irrigation in Valiyeri LIS	99	41	3.88
4.	Providing community micro irrigation in Elevanchery – Njarakkalmada LIS	83	89	2.83
5.	Providing community micro irrigation in Navithankulam LIS	82.50	43	3.00
<b>Total</b>		<b>431</b>	<b>283</b>	<b>20.00</b>

The Committee had a detailed discussion on the proposal. The Principal Secretary (LSGD-Rural) pointed out that micro irrigation is a subject transferred to LSGs and that the role of LSGs should be well defined in the project. The ACS (Finance) required that Government share and beneficiary share of the LSG/ farmer should be detailed in the project report. Chief Secretary enquired about the cost-benefit analysis in terms of the increase in productivity of the crops involved on implementation of the project.

**Decision taken:**

On the basis of the detailed explanatory note submitted by ACS (Water Resources) and the Secretary (Water Resources), the proposal was approved.

**[Action: CEO, RKI]**

**8. Preparation of Detailed Project Report for 'Room for The River' Project :**

The Netherlands visit by the Hon'ble Chief Minister of Kerala and his delegation had evaluated the technologies being adopted by that country in combating extreme flooding and other natural disasters. Drawing inspiration from the successful methods adopted, the Government felt that mutual cooperation with their technical experts may largely benefit the state in its resistance against the natural disasters. Accordingly, concepts like "River Training" and "Room for the River" need to be studied in detail for areas like Kuttanad. For the preparation of DPRs and other relevant study purposes, the Water Resources Department requested to provide an amount of Rs 4.50 crore from the RKI funds.

The CEO RKI apprised the Committee of the view taken by the RKI-IC in the matter that the DPR proposed can be prepared in-house by the proposed TSU to be placed under the WR Department which consists of required experts for the purpose. The Department needs to expedite the selection procedure to put in place the TSU at the earliest.

**Decision taken:**

The proposal was approved. RKI-IC will examine the detailed proposal before issuing Administrative Sanction.

**[Action: CEO, RKI]**

## **9. Kerala Water Resources Information System (K-WRIS):**

K-WRIS is proposed to be a comprehensive, dynamic and well-structured information and management system to facilitate and ensure judicious, equitable and sustainable management, allocation and utilisation of water resources. The ACS (WR) informed the meeting that for effective water budgeting, its planning, conservation and sustainable management, the development of WRIS is at present a priority for the State especially in the backdrop of the two consecutive flooding events. Kerala Water Resources Information System K-WRIS will act as a single authoritative system for all water resources related information, its budgeting as per hydrology norms and its monitoring. The task of developing K-WRIS is an extensive Information Technology (IT) exercise which includes Computer Programming, Database Management, Geo Portal designing, Website Designing and hosting, Data analytics, Big Data, IoT, and Remote sensing capabilities etc. Since departments have only limited capability in these domain areas, consultancy is needed to accomplish the project task in stipulated time.

The CEO RKI reported that the RKI IC is of the opinion that the department shall explore the possibilities of finding necessary funding support for the project from the 'National Hydrology Project (NHP)'. The CE responded that there is limited chance for getting requisite funding for the proposal from the NHP.

### **Decision taken:**

HLEC approved the proposal Kerala Water Resources Information System by utilising funds from RKI.

## **4. Presentation of Fresh proposals by various departments.**

### **I. Agriculture Department:**

ACS (Agriculture) gave a presentation of the status of different activities undertaken by the Department under RKI. He requested to provide a Technical Support Unit of 10 personnel in the Agriculture Directorate for taking forward the reform agenda which has been indicated in G.O. (Ms.) No. 66/2019/Agri. Dated 25.05.2019.

He also presented the different projects for funding under RKI and informed that DPR for these projects are ready. The various projects are grouped under various sectors as shown below:

<b>Sl. No.</b>	<b>Sector</b>	<b>No. of Projects</b>	<b>Investment (Rs. crore)</b>
1.	Input production	3	75.82
2.	Paddy	8	569.924
3.	Focussed Farmers approach	3	36
4.	Cash crops	1	4
5.	FFV and Floriculture	4	55.5
6.	Marketing	1	15
7.	Farm Development	1	50
8.	Agro Processing	4	64.31
9.	Kerala Agricultural University Projects	10	94.84
<b>TOTAL</b>		<b>35</b>	<b>965.394</b>

The various projects envisaged by the Department are as specified under:

<b>Sl. No.</b>	<b>Name of Project</b>	<b>Estimated amount (Rs. crore)</b>
1.	Expansion of existing State Bio Control Laboratory at Mannuthy.	31.93
2.	Construction of Three Tissue Culture Labs at Thrissur, Malappuram & Kasargode Districts.	20.99
3.	Enhancing Productivity through Integrated Farming	20.00
4.	Athirappally Tribal Valley Agricultural Project.	8.00
5.	Comprehensive & Sustainable Agricultural Development Project for Attappady.	8.00
6.	Establishment of Cold Chain for High Value Vegetables in Kerala (Supply Chain for F & V)	25.00
7.	Jackfruit Value chain Development in Kerala	10.00

8.	Project on Strengthening Marketing network in Kerala	15.00
9.	Infrastructure Development for Flood Management in Kuttanad - Phase I	60.00
10.	Centre of Excellence for Vegetables and Flowers at Wayanad	4.00
11.	Establishment of Cardonet – Traceability System for Kerala Cardamom exported to the international market	4.00
12.	Integrated Farm Management for holistic development in DAF, Neriambangalam	50.00
13.	Sustainable development of Kuttanad Rice Ecosystem through Agro Ecological crop Health Service delivery	2.91
14.	Improved Infrastructure Facilities to overcome Flood and Drought in Thrissur Ponnani Kole Lands	308.8
15.	Flood Management in Kuttanadu Padasekharams – Phase II	100.7
16.	Integrated Infrastructural Developments in Cherukunnu and Mayyil Panchayats in Kannur (Vol I,II,III)	26.05
17.	Improvements to Kakkulam Muttakkadavu in Kuzhur Grama Panchayath in Thrissur District	6.59
18.	Improving livelihood security through agri-tourism:Evolving models at the research and extension centres of the Kerala Agriculture University	7.5
19.	Enhancing production of bio inputs for sustainable and climate resilient agricultural development in Kerala	7.00
20.	Human Resources Development for Good Agricultural Practices and entrepreneurship: Capacity building for extension personnel in State Department of Agriculture Development and Farmers Welfare	2.00
21.	Enhancing livelihood security of small holders in Kerala through value addition and entrepreneurship development: Establishment of Farm Business School and Incubation Centres in Kerala Agricultural University	9.00
22.	Development of a Farming System Based Cyber Extension Model for the State of Kerala	2.00
23.	Establishing a knowledge management system on agriculture in Kerala and strengthening e-Governance in KAU	5.14
24.	Building resilience of tribal communities in Kerala –	2.7

	Enhancing livelihood nutritional security of tribal communities through ethnic food baskets and wider extension services	
25.	Establishment of an international convention and exhibition centre for showcasing commercial agricultural technologies at Ambalavayal, Wayanad	6.5
26.	Establishment of cashew plantations in various agro-climatic zones of Kerala	3.00
27.	Development of Kaippad Organic Tided Wet Lands of North Kerala through mechanised farming	0.56
28.	Integrated development of Kaippad Tided Wet Lands of North Kerala through Rice Germ Plasm conservation and Biodiversity based farming	5.1
29.	Pesticide residue analysis laboratories for export commodities in PPP mode	50
30.	Expansion and modernisation of production facilities in VAFPCL	16.49
31.	Modernisation of Pineapple juice concentrate plant and factory renovation	1.32
32.	Chengannur Samridhi - Tharishu rahitha Mandalam Padhathi	62.14
33.	Enhancing climate smart agriculture in Fruits and Vegetables based on Agro Ecological Zones	16.5
34.	Modernisation and Diversification of Integrated coconut processing Complex, Mamom	22.11
35.	Setting up of cosmetic manufacturing Plant at Edappally	24.39
	<b>TOTAL</b>	<b>945.4</b>

CEO, RKI apprised the Committee of the views of RKI-Implementation Committee on each of the projects, which is appended to the minutes as **Annexure 3.**

The Committee considered the proposals one by one and decided as follows.



**Decisions taken:**

HLEC observed that there are projects related to flood management, which require a plan for convergence with other relevant departments like the Water Resources Department and the LSGD as well as for utilisation of funds under other schemes/ packages (for eg:- Kuttanad Package) to be prepared to ensure optimal use of subsidies and benefits. Also the technical designs of the embankments needs to be assessed through hydraulic studies to ensure that the rehabilitation leads to sustenance of the investments through application of new technologies and designs, which has not been done in the past. **The department should furnish detailed project proposals to RKI in this regard.** HLEC directed the ACS (Agriculture) to furnish copies of DPRs of the remaining projects which are ready for consideration by the RKI-Implementation Committee, which may in turn examine the proposals in detail.

**[Action: ACS (Water Resources), ACS (Agriculture), RKI-IC]**

**II. Animal Husbandry Department:**

Principal Secretary (Animal Husbandry) presented the following project proposals before the HLEC.

<b>Sl.No.</b>	<b>Name of Project</b>	<b>Amount required (Rs. crore)</b>
1	Mobile Tele-Veterinary Unit on regional basis	2.21
2	GIS & RFID Technology adoption	20.80
3	Sexed semen for Conservation and Propagation of Elite Germ-plasm of Indigenous Cattle and Buffalo	19
4	Livestock Insurance Master Policy	25.00
<b>TOTAL</b>		<b>67.01</b>

HLEC examined the proposals one by one. ACS (Finance) opined that the project of "Sexed semen for conservation and propagation of elite

germ-plasm of Indigenous cattle and buffalo” is a Centrally Sponsored Scheme, the state share of which is Rs.19 crore has to be met from the budget itself and not from DPL. Further, the HLEC observed that the project “Livestock Insurance Master Policy” need to be discussed further as it involves recurring expenditure.

**Decisions taken:**

HLEC aproved in-principle the projects “Mobile Tele-Veterinary Unit on regional basis” and “GIS & RFID Technology adoption” for which DPR shall be prepared by the Department. The Animal Husbandry Department, after consulting Finance and Planning Departments, shall furnish a detailed project proposal with respect to “Livestock Insurance Master Policy” to RKI-Implementation Committee, which shall examine the proposal and furnish a report to HLEC.

**[Action: Principal Secretary (Animal Husbandry); RKI-IC; CEO, RKI]**

**III. Revenue Department:**

Principal Secretary (Revenue) & CEO, RKI presented a proposal for the reconstruction and repairing of flood damaged village offices for a total estimate of Rs.35 crore. The breakup of the cost is as follows:

a) Reconstruction of 70 village offices: Rs.33crore

b) Repairing of 40 village offices: Rs.2 crore

He informed that rebuilding of the flood hit village offices would be planned so that the principles of resilience is taken care of.

**Decisions taken:**

HLEC directed to prepare site-specific DPR for each of the proposed village office which is reconstructed/renovated imbining the resilient, standards for which an expert agency may be identified by floating RFP. Funds for the preparation of the entire DPRs will be provided from RKI.

**[Action: Principal Secretary (Revenue) & CEO, RKI]**

## **5. Additional Agenda: Studies supported under RKDP Agriculture sector**

The ACS (Agriculture) informed that the previous HLEC had approved 10 studies in the Agriculture sector and consequently the RKI had prepared ToRs for those studies in consultation with the Department. Now, in view of the urgent interventions planned by the Department, ACS (Agriculture) requested the HLEC to substitute the studies already approved by HLEC with the following seven studies namely;

1. Conduct review of policy environment and develop recommendations to promote disaster-resilient crops, integrated farming systems and agro-ecological approach.
2. Technical support for HR diagnosis based in workflow, workflow analysis, institutional competency, core financials etc.
3. Study of the diagnosis of agriculture insurance penetration in Kerala and redesigning of the State Crop Insurance scheme.
4. Technical support for inception, development and operation implementation of agricultural service IT application platforms and MIS.
5. Develop strategic paper for agro-marketing of key Kerala crops & Undertake value chain studies of key Kerala crops (including Jack fruit and coconut).
6. Technical assistance to VFPCCK for the implementation of the Agricultural policy.
7. Technical assistance to improve the training methodology of SAMETI.

### **Decisions taken:**

HLEC approved the new set of studies proposed by the Department as listed above in place of those approved in its previous meeting.

The meeting concluded at 2.30PM with a vote of thanks by the Chair.

## List of Participants

Sl. No	Name & Designation	Designation
1.	Sri. Tom Jose IAS	Chief Secretary
2.	Dr. Vishwas Mehta IAS	Additional Chief Secretary, Water Resources Department
3.	Sri. Manoj Joshi IAS	Additional Chief Secretary, Finance Department
4.	Dr. Asha Thomas IAS	Additional Chief Secretary, Forests & Wild Life Department
5.	Sri. T. K Jose IAS	Additional Chief Secretary, LSGD
6.	Sri. D. K Singh IAS	Additional Chief Secretary, Agriculture Department
7.	Dr. Venu V IAS	Principal Secretary Revenue & CEO, RKI
8.	Sri. Rajesh Kumar Singh IAS	Principal Secretary, PWD
9.	Dr. A Jayathilak IAS	Principal Secretary, Planning & EA
10.	Smt. Sarada M.G IAS	Principal Secretary LSGD (Rural)
11.	Sri. M Sivasankar IAS	Secretary to Chief Minister
12.	Sri. TKA Nair	Former Principal Secretary to Prime Minister & Member, HLEC
13.	P. K Aravinda Babu	Law Secretary
14.	Dr. A. Kowsigan	MD, Kerala Water Authority
15.	Sri. Rajan M.V	CE, LSGD
16.	Sri. K. H Shamsuddeen	CE, Irrigation & Administration
17.	Sri. Joshy K. A	CE, IDR B
18.	Sri. P. Kesavan Nair	MD, Clean Kerala Company Ltd.

**Cluster wise List of roads****Pathanamthitta**

<b>Sl.No</b>	<b>Name of road</b>	<b>Overall Length for proposal (km)</b>	<b>Cluster</b>
1	Arummoode - Chala Puthenchantha 14am Mile	3.3	<b>Cluster I</b>
2	Adoor Gopalakrishnan Road Retarring	2.1	
4	Karimchettil Kalayanikkal Road	1.7	
11	Kalarikode Pallana Puthenvelipadi Road	1.5	
12	Paivazhy Nediyaakala Road	1.8	
14	Vattathenpady Nallathupady Road	1.8	
15	Nallathupadi Pazhikunnu Kshetram Road	1.5	
8	Anthyalankavu Marthomapallipaddy karamvelipadi	1.1	<b>Cluster II</b>
33	Madukkamoodu Ayyappa Medical College Road	1.4	
34	Banglamkadavu Valiyakulam Road	2	
35	Banglamkadavu Stadium Valiykulam Road	2.9	
37	Melepadi Chellakadu Road	1.6	
39	Venkurinji - Maridamkavala road	2.32	
40	15 Pallipadi Madathumpadi road	3.3	
41	Ration kadapadi Mulanthanam road	1.6	
50	Chana Kurumpanmoozhy	6.4	
55	Kiliyanikal thoolikulam road	1.4	
56	Thiruvabharanapatha road	2.5	<b>Cluster III</b>
60	Thannitodu Plantation - Thekkunthodu Road	3.7	
25	Parakkavu - Valakuzhi	1.9	
32	Poovanmala Panamplackal Road	1.2	
47	Chakrasalaladavu Panadimotil	3.9	
48	CK Road	2	
52	Thikkapuzha	2.5	
53	Erathodu Ashankudy	1.3	

## Idukki

SI No.	Name of Road	Connected Length for proposal (km)	Suitable TCS type	CLUSTER	Cost Estimates (Lakhs Rs)	
1	Anachal Thokkupara Acherikunnu Asramam road	1.60	TCS 2B	CLUSTER 2	241.99	Total =7715.58 for 56.93 Km
2	Aalthara Chekuthanmukku Kunjithanni road	7.70	TCS 1B		794.66	
4	Kallarkutti Naikunnam road	1.70	TCS 2B		274.89	
5	1000 Acre - South Kathipara road	3.00	TCS 1B		325.46	
6	Padicup - Plakkayam Kuttamudi tribal colony road	4.20	TCS 2B		705.08	
13	Parappanangadi - NR City road	PROJECT EXECUTED				
14	Adivaram - Ottalanagalpady city road	4.08	TCS 2B		677.43	
16	Panachikuzhi road	5.10	TCS 1B		584.19	
19	Ambalappara -Kadapplackal road	0.75	TCS 2B		113.19	
33	Perumbankuthu 6th mile	3.90	TCS 1D		477.9	
34	50th Mile Kallakuttykudi	2.50	TCS 2B		512.57	
35	Upper suryanelly	4.90	TCS 2B		725.92	
36	Surianelly Gundumala	2.40	TCS 2B		341.57	
37	Village office periyakana	3.10	TCS 2B		467	
38	Mangathotti - Kanakapusha NR city	4.00	TCS 1D		475.82	
42	Murikkumthotti Mathekkalpadi Shaliliyil	1.80	TCS 1B(250m) & TCS 2B(400m)		82.27	
50	Thattekaani - Menoloyan Earthen road	3.90	TCS 2B		666.51	
52	Pallikudi city Mangathu palam road	1.00	TCS 2B		249.13	
8	Aashramam Pottanpady Road Retaining wall	1.5	TCS 2B	CLUSTER 1	266.46	Total =5514.21 for 40.53 Km
9	Ellapally Chellikal Road Retaining wall	5.225	TCS 2B		885.55	
10	Ellapalli tottam bhagom road retaining wall	1.45	TCS 2B		310.23	
11	Puthed anoor Thode foot bridges	5	TCS 2B		737.7	
23	Idinjamala - companypadi (Renamed as Santhigramom-CompanyPadi-Idinjamala-KochuKamakshi)	8.1	TCS 1B		878.3	
24	Nalumukku - Tunnel site	2.75	NIL		53.1	
25	Balagram - Anyarthulu	6.4	TCS 1D		726.19	
27	Kattekkanam - Chelamoodu	1.9	TCS 2A		299.63	
28	Pazhaya - Kochira Road	0.85	TCS 2B		219.75	
46	Perikkankaval-Kollamkulambadi-Karikavala road	0.6	TCS 2B		181.35	
48	Kurushupallipadi thannikandam Kumbiluvellipadi painavu road	5.14	TCS 2B		748.06	
49	Vimalagiri-Enikkuthu road	1.61	TCS 1B	207.89		

## Wayanad

Sl No.	Name of Road	Local Body	Block	LENGTH OF ROAD (Km)	Overall Length for proposal (km)	CLUSTER	Cost Estimates (Lakhs Rs)	
4	Panamaram - Keenjukuradavu Palakunnu road	Panamaram	Panamaram	4.700		1	409.31	<b>Total = 2153.13 for 23.5 Kms</b>
7	Varayad -thekkumpadi Road	Muttill	Kalpetta	1.800		1	156.76	
10	Chundel - Chundel estate - Pappala Anoth Road	Chundel	Kalpetta	4.700		1	424.64	
13	Ediyamvayal Pinangodu road	Pozhuthana	Kalpetta	2.300		1	200.3	
14	Karlad - Manjoora road	Thariyode	Kalpetta	2.100		1	182.88	
15	MH Nagar - Cholapuram road	Vengappally	Kalpetta	2.700		1	235.14	
16	Kottathara Kakkanchal Thekkumthara road	Kottathara	Kalpetta	1.900		1	256.71	
17	Kuppadithara -Millu mukku kurumani road	Padinjarethara	Kalpetta	1.500		1	130.63	
18	Cheriyamkolli - Kalluvettumthazhe	Padinjarethara	Kalpetta	1.800		1	156.76	
19	Valliurkavu varadimoola road	Mananthavady	Mananthavady	1.600		2	214.99	<b>Total = 3686.75 for 41.31 Kms</b>
20	koodalkadavu chalighadha road	Mananthavady	Mananthavady	2.800		2	226.58	
21	Thannikkal payyampally road	Mananthavady	Mananthavady	1.800		2	156.76	
22	Erumatherivu Choottakadavu road	Mananthavady	Mananthavady	1.800		2	156.76	
23	Vilanilam - Pilakavu road	Mananthavady	Mananthavady	2.600	2.950	2	262.38	
24	Pilakavu - Pancharakolli road	Mananthavady	Mananthavady	3.100	3.860	2	342.5	
27	Puthiyedam Makkimala road	Thanival	Mananthavady	4.200		2	367.22	
28	44 th mile makkimala	Thanival	Mananthavady	5.500		2	479.85	
30	Varayal - Melevarayal Road	Thanival	Mananthavady	1.500		2	136.1	
31	Kattimoola - Aroola Kolathada road	Thanival	Mananthavady	3.700	4.200	2	365.77	
32	Orappu - Evanarikulam - Kattimoola road	Thanival	Mananthavady	4.500		2	391.9	
33	Korome - Karimbil Road	Thondarnadu	Mananthavady	4.100		2	368.22	
34	Kollikandam - Kunneri-Nelom road	Thondarnadu	Mananthavady	2.000	2.500	2	217.72	

**POST FLOOD REPAIR AND MAINTENANCE OF DAMS/  
REGULATORS/CANALS/IRRIGATION STRUCTURES**

<b>CE IRRIGATION AND ADMINISTRATION</b>			
<b>MINOR IRRIGATION CIRCLE THIRUVANANTHAPURAM</b>			
<b>Sl. No.</b>	<b>Name of work</b>	<b>Division</b>	<b>Amount (in Lakhs)</b>
1	Rebuild Kerala Initiative –Flood Damages 2018- Restoration of a checkdam across Poonjar River at IdathilParambu near Poonjar Palace in PoonjarPanchayath.	KOTTAYAM	100
2	Rebuild Kerala Initiative –Flood Damages 2018- Restoration of Canal at Karikkottumoolapadashekham and rejuvenation works to Thalakulam (Aruparanchira) in AyarkkunnamPanchayath.	KOTTAYAM	135
3	Rebuild Kerala Initiative- Flood Damages 2018- Restoration of a storage weir at Vattakkavu (Urava) NoorumalaBhagam in Ward No.4 of KadanaduPanchayath.	KOTTAYAM	100
4	Rebuild kerala: Renovation of Kuppannurchal in Kulanada Panchayath in Aranmula Constituency.	PATHANAMTHITTA	218
<b>MINOR IRRIGATION CIRCLE ERNAKULAM</b>			
5	RKI 2019 - Repair of check dam and diversion channel at Chinnaparakkudy in Adimali panchayath	IDUKKI	25.00
6	RKI 2019 - Improvements to Sellyampara pond near Sellyampara city in ward no.13 of Vellathuval panchayath	IDUKKI	15.00
7	RKI 2019 - Repair works to checkdam at checkdampady - Compayar in Nedumkandam panchayath	IDUKKI	6.00
8	RE BUILD KERALA -Repairs works of Koodapuzha Check Dam in Chalakkudy River 2019-20	THRISSUR	100.00
9	RKI-Rectification works of Pazhayannur LIS canal	THRISSUR	90.00
10	RKI-Rectification works of Asurankundu Dam road between ch.0/685 km to 3/000 km	THRISSUR	67.00
11	RKI- Urgent rectification works near ch 1025m to ch 1920m of main canal of Anakkara LIS in Anakkara Panchayath	PALAKKAD	87.00



12	Repair of field boothie from direct sluice from Valiyeri pond in Kozhinjapara Panchayth	PALAKKAD	8.00
13	Providing silt excluding pipes and valves in Check Dam across Chittur Puzha at Puzhapalam in Chittur - Tattamangalam Municipality	PALAKKAD	4.10
14	Side Protection works to Mannamthodu in Ward No.10 of Koduvayur Grama Panchayat.	PALAKKAD	13.00
<b>IRRIGATION SOUTH CIRCLE THIRUVANANTHAPURAM</b>			
15	Rebuild kerala initiative-Flood damages 2018- Restoration of bathing ghat on the left bank of Kakki river at Balitharpanam area in Pampa triveni	KOLLAM	73.00
16	Rebuild kerala initiative-Flood damages 2018- Restoration of bathing ghat and pathway on the left bank of Pampa river between foot bridge and Arattukadavu VCB in pampa Triveni	KOLLAM	67.50
17	Rebuild kerala initiative-Flood damages 2018- Restoration of Nunungar bridge Pampa Triveni	KOLLAM	139
18	Flood damages 2018 - Restoration of bathing ghat on the right bank pampa river between foot bridge and Arattukadavu at Pampa Thriveni.	KOLLAM	38.3
19	Flood damages 2018 - Restoration of Arattukadavu VCB across pampa river in pampa Thriveni	KOLLAM	31.8
20	Flood damages 2018 - Restoration of Pandarakkayam VCB across pampa river in pampa Thriveni	KOLLAM	30
21	Flood damages 2018 - Restoration of Sreeramapadam VCB across pampa river in pampa Thriveni	KOLLAM	19.88
22	RKI-Rectification of damages of check dam across Kallada river near Punalur paper mill in Punalur Municipality	KOLLAM	70.5
23	RKI-Rectification of the eroded left bank of Kaliyar river U/S of Paruthappuzha check dam cum tractor passage in ward No.2 of Kodikkulam Panchayath.	IDUKKI	23.50
24	RKI-Removal of accumulated silt from Deviyaarthodu near Mookambika bridge in adimaly G.P, Ward No. 15	IDUKKI	15.00
25	Protecting the sides of Vaisyambhagamthodu from Nalpathilchira towards Naluparapalam in ward no.12 of Nedumudy panchayath in Kuttanad LAC	ALAPPUZHA	75

26	Torrential flood damages 2018- Urgent protection work to the right bank of Achenkovil river near Kottarathilkadavu in ward no.9 of Venmony Panchayath	ALAPPUZHA	21.5
27	Urgent protection work to the left bank of VarattarnearVarattarChapath and opposite PIP Aqueduct in ward no.7 of ChengannurMunicipality	ALAPPUZHA	17.2
28	Urgent protection work using contiguous piles to the eroded bank of Manimala river from Thombilpady to Mulaykkalpady near Neerettupuram NSS Karayogam in ward no.6 of Thalavady Grama panchayath	ALAPPUZHA	100
29	RKI- Maintenance of storage weir across Manimala River near Moongani in VellavoorPanchayth	KOTTAYAM	50.00
30	RKI-Rectification to the damaged banks- Protecting the Right bank of Moovattupuzha River by the side if Attuvelakadavu- Moozhikkalroad in MaravanthuruthPanchayat.	KOTTAYAM	49.80
<b>IRRIGATION NORTH CIRCLE KOZHIKODE</b>			
31	Protecting the Left bank of Iruvanhipuzha downstream of old Elanthukadavu bridge and at end portion of Pullooramparathuruth in Thiruvampady panchayath.	KOZHIKODE	65
32	Protecting the right bank of PoonoorPuzha near TrikkovilMahavishnuBhagavathi Temple in Kuruvattoor Grama Panchayath.	KOZHIKODE	30
33	Renovation of Kattampally Project in Chirakkal Panchayath in Kannur district (Civil works)	THALASSERY	240
34	Repair and Rehabilitation of Koottayi Regulator cum bridge across Thirur - PonnaniPuzha in Mangalam Grama panchayath in Malappuram District(Civil works)	MALAPPURAM	230
			<b>2355.08</b>
<b>CE MECHANICAL</b>			
35	Renovation of Kattampally project stage I in Chirakkal Panchayath(Mechanical works)	KANNUR	430
36	Repair and Rehabilitation of Koottayi Regulator cum bridge across Thirur - PonnaniPuzha in Mangalam Grama panchayath in Malappuram District(Mechanical works)	MALAPPURAM	674
37	FLOOD-2018-Repair works of shutters and hoisting mechanism of Idiyanchira Regulator(Mechanical works)	THRISSUR	216

38	FLOOD-2018-Renovation of shutters and hoisting mechanism of Enamakkel Regulator	THRISSUR	430
39	FLOOD-2018-Repair works of shutters and hoisting mechanism of Illikkal Regulator(Mechanical works)	THRISSUR	284
40	Flood damages 2018- Reconstruction of Regulator at Cheerakuzhi in Thrissur District - Fabrication and painting and erection of 8 Nos. regulator shutters with independent hoisting arrangements.	THRISSUR	353
41	FLOOD-2018-Renovation works of shutters and hoisting mechanism of Manjamkuzhy Regulator(Mechanical works)	THRISSUR	359
42	FLOOD-2018-Renovation works of shutters and hoisting mechanism of Thrikkur Regulator(Mechanical works)	KANNUR	108
43	FLOOD-2018-Repair works of shutters and hoisting mechanism of Koothamakkal Regulator(Mechanical works)	THRISSUR	31
44	FLOOD-2018-Repair works of shutters and hoisting mechanism of Kottenkottuvalavu Regulator(Mechanical works)	THRISSUR	286
45	Replacement of 8 nos of MS Shutters,hoisting bridge and hoisting mechanism of Pozhikkara regulator cum bridge in Kollam district mechanical works	KOLLAM	185.1
46	Thrithaala Regulator cum Bridge Mechanical works	PALAKKAD	135
		<b>Total</b>	<b>3491.1</b>

### CE PROJECTS II

47	<b><u>Chimony Irrigation Project</u></b> – Flood Damages – Urgent rectification works to the damaged apron on the downstream of Stilling Basin in Chimony river	THRISSUR	125
48	<b><u>Pamba Irrigation Project</u></b> -RBC -Constructing aqueduct in place of collapsed Varayannur aqueduct of poovathur east branch canal at Ch 1000m	PATHANAMTHITTA	145
49	<b><u>Kallada Irrigation Project</u></b> - RBMC-Permanent work to arrest the earth slippage at Ch: 17000 m to 17150m of RBMC due to Flood 2018	KOLLAM	190.4
50	<b><u>Cheerakuzhy Scheme Maintenance</u></b> - Improvements of Canal Systems under Cheerakuzhy Irrigation Project	THRISSUR	

a	CSM - Flood Damages 2018 - Urgent Reconstruction of Downstream rivertraining wall and retaining wall		35
b	CSM - Flood Damages 2018 - rectification of LBMC & Strengthening the aqueduct and preventing leakages at the upstream and downstream of aqueduct at ch. 5/600 km		10
c	CSM - Flood Damages 2018 - urgent repair of LBMC & Strengthening the aqueduct and preventing leakages at the upstream and downstream of aqueduct at ch. 9/780 km		15
d	CSM - Flood Damages 2018 - urgent Rectification works to LBMC near Ch. 0/130 km		15
e	CSM - Flood Damages 2018 - urgent Rectification works to LBMC near Ch. 2/250 km		10.5
f	CSM - Flood Damages 2018 - urgent Rectification works to LBMC near Ch. 5/650 km		15
g	CSM - Flood Damages 2018 - urgent Rectification works to LBMC near Ch. 8/465 km		15
h	CSM - Flood Damages 2018 - urgent Rectification works to LBMC near Ch. 11/150 km		15
i	CSM - Flood Damages 2018 - urgent Rectification works to LBMC near Ch. 11/900 km		15
j	CSM - Flood Damages 2018 - urgent Rectification works to LBMC near Ch. 13/350 km		15
51	<b>Kole lands-Civil works of regulators in connection with mechanical works</b>	<b>THRISSUR</b>	
a	Flood damages- rectification works at Enamakkal regulator for the year 2018-19		302
b	Flood damages- rectification works at Idiyanchira regulator for the year 2018-19		230
c	Flood damages- rectification works at Illikkal regulator for the year 2018-19		75
d	Flood damages- rectification works at Kottamkottuvalavu regulator for the year 2018-19		75
		<b>Total</b>	<b>1302.9</b>
52	Peechi Scheme-Aqueduct-a permanent solution at breached portion of Left bund main canal bund between Ch.19/600 Km and 20/650 Km	THRISSUR	<b>290</b>
<b>Chief Engineer Project 1</b>			
53	Kuttiady Irrigation Project	KOZHIKODE	200
54	Pazhassi Irrigation Project	KANNUR	500
55	Attappady Valley Irrigation Project	PALAKKAD	200

56	Kanhirapuzha Project	PALAKKAD	100
57	Chitturpuzha Project	PALAKKAD	250
58	Gayathri Project	PALAKKAD	100
59	Walayar Project	PALAKKAD	65
60	Malampuzha Project	PALAKKAD	110
61	Mangalam&Cheramangalam	PALAKKAD	25
62	Pothundy Project	PALAKKAD	20
63	Rehabilitation of Velliyankallu regulator cum bridge at Thrithala across Barathapuzha	PALAKKAD	1700
		<b>Total</b>	<b>3270</b>
<b>Grand Total</b>			<b>10709.08</b>

## RKI-IC comments on Project Proposals

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
1	<b>Livelihoods</b>			
1.1	Skilling for wage employment	Kudumbasree	60	Majority of the beneficiaries of the project is from the most vulnerable group such as minorities and SC/ST communities(90%). The project is as part of the post flood activity to fill in the gap in the skilled sectors. Hence the RKI-IC recommends the project.
1.2	Skilling for connect to work	Kudumbasree	5	The Connect to Work Training Program would act as Employment Bridging Program/ Soft Skill Excellence Program for the educated unemployed youth by enhancing their possibilities of getting right jobs. The project benefits 5000 youths. Since the project caters to the employability of youth, RKI-IC recommends the same.
1.3	ARISE	Kudumbasree	10	The project is part of the Specific Interventions in the area Livelihood actions which is essentially part and parcel of the RKDP. The project aims to provide Livelihood to 50,000families by augmenting the interventions presently taken up by Kudumbasree. RKI-IC endorses the project.
1.4	Kerala Chicken Project	Kudumbasree	22	The project is part of the Specific Interventions in the area Livelihood actions which is essentially part and parcel of the RKDP. Hence the RKI-IC recommends the same
1.5	Egg value chain project	Kudumbasree	5.8	
1.6	Start-up Village Entrepreneurship Programme	Kudumbasree	70	The project envisages to promote 16,800 enterprises across 14 <b>flood-affected blocks</b> through around 300 Micro Enterprise Consultants (MECs) trained as part of the project. Since the project has a specific target of flood affected areas, the RKI-IC endorses the same to be taken up by the Kudumbasree.
1.7	Community Enterprises fund for CDS. System	Kudumbasree	30	While Kudumbashree provides a range of support for its entrepreneur members, studies indicate that many Kudumbashree entrepreneurs face challenges in running their business due to difficulties in managing their business due to difficulties in managing scarce capital, diversion of capital for non-economic/domestic purposes and inefficient financial management. Hence the RKDP has recommended to revisit policy framework for micro enterprises to

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
				include better financing avenues for micro enterprises and livelihood activity groups. Since the proposed assistance will be utilized to form a corpus fund and that repayment credentials of the Kudumbasreewomen are commendable the revolving fund can be utilized for supporting more women entrepreneurs in the future. Hence the RKI-IC endorses the same. The component of administrative expenses to be sourced from other sources of fund.
1.8	Crisis Management Fund for restoration of JLG Activities	Kudumbasree	20	These projects form part of the short term measures aimed at mitigating the loss suffered to the most vulnerable segments in the recent floods. These projects therefore find resonance with the ideals of the RKDP. Hence the RKI-IC recommends the same.
1.9	Vulnerability Reduction Fund	Kudumbasree	25	
<b>Total (Livelihoods)</b>			<b>247.8</b>	
<b>2</b>	<b>Water Resources</b>			
2.1	Completion of nearly completed KWA schemes in flood-hit areas.	KWA	182.60	As per the proposal, completion of the nearly completed projects is expected to benefit 1.25lakh flood affected people and provide additional source of drinking water for 30,700 households. RKI-IC on preliminary evaluation of the proposal has decided to recommend this project for approval.
2.2	Implementing solar / renewable energization projects in Palakkad District.	KWA	50.00	KWA is one of the major consumers of power in the social sector. Use of non-conventional sources (solar) for meeting the high energy demands of KWA can help reduce the recurring expenditure on electricity and further reduce the carbon footprint of KWA. Solar energy can provide a sustainable energy pathway for existing and future projects of KWA. Therefore, RKI-IC recommends approval of a pilot project to set-up 8 MW grid connected Ground Mounted Solar Power Plant for KWA as it is aligned to the RKI principle of "Build Back Better".
2.3	Preparation of ready to construct DPR's through select consultants (Sewerage)	KWA	17.00	Cities in Kerala lack a robust sewerage system. RKI-IC acknowledges the need to develop sewage treatment infrastructure in the cities of Thiruvananthapuram, Kochi and Kozhikode. Necessary Sewerage infrastructure is critical for ensuring city wide sanitation and improving public health, environment and water

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
				bodies from biological contamination. Therefore, RKI-IC is of the opinion that the proposal for preparation of DERs for three cities be approved.
2.4	Upgradation of pumping infrastructure to more energy efficient pumps/ ancillary and machinery.	KWA	7.00	RKI-IC is of the opinion that conducting energy audits and improving energy efficiency of mechanical infrastructure is the duty of the agency owning the assets. Therefore, RKI-IC recommends this project should be taken up under budgetary plan fund of the government.
2.5	Post flood repair and maintenance of dams, regulators, canals and Irrigation structures	Irrigation Department	107.00	PDNA identifies losses to irrigation infrastructure to the tune of 1482 crores. Structures like flood embankments, regulators, weirs, check dams, coastal protection works, canals including various distributaries, dams were damaged in the 2018 floods. These damaged structures expose different vulnerable regions to further risk in the advent of future disasters. Additionally, it has impacted agriculture, domestic water supply, industrial water supply, hindered economic growth, etc. Therefore, RKI-IC recommends the post-disaster repair and maintenance activities for the listed items in the proposal be carried out with immediate effect.
2.6	Micro-Irrigation Projects	Irrigation department	20.00	Irrigation is the biggest guzzler of water in Kerala. The water-use efficiency in the irrigation sector is very low owing to traditional irrigation practices. Therefore, there is a need to improve water use efficiency in Irrigation which will help in providing excess fresh water which can be used for other competing usage like domestic water supply, e-flows and industrial usage. Use of micro-irrigation is a sustainable approach towards irrigation in the State and therefore RKI-IC recommends the proposal for promoting use of micro-irrigation especially for water intensive crops.
2.7	Initial operational / consulting expenses of RBCMA	Irrigation Department	8.00	RKI IC is of the opinion that the department shall explore the possibilities of finding necessary funding support for the project from the 'National Hydrology Project(NHP).
2.8	Preparation of DPR – Room for the River	Irrigation department	4.50	The RKI-IC is of the opinion that the DPR proposed can be prepared in house by the proposed TSU to be placed under the WR department as the TSU consists of required experts for the purpose. The department need to expedite the selection procedure to float



Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
				the TSU at the earliest.
2.9	Kerala Water Resources Information System	Irrigation Department	3.80	RKI IC is of the opinion that the department shall explore the possibilities of finding necessary funding support for the project from the 'National Hydrology Project(NHP).
	<b>Total (Water Resources)</b>		<b>400</b>	
<b>3</b>	<b>Waste Management</b>			
3.1	Infrastructure Requirements for Solid Waste Management	Clean Kerala Company	<b>76</b>	Major problem in Non-bio degradable waste management in the State is lack of suitable quality infrastructure. Developing the requisite infrastructure is capital intensive. The proposals have been approved by RKI – IC. However, detailed project report with breakup of capital costs and professional & administrative costs need to be sought for final approval.
	<b>Total (Waste Management)</b>		<b>76</b>	
<b>4</b>	<b>Forest</b>			
4.1	DPR on consolidation of forests of Kerala	Forest	130.4	HLEC has already approved for INR 130 Cr. The department has submitted DPR in line with the approved amount.
	<b>Total (Forest)</b>		<b>130.4</b>	
<b>5</b>	<b>Biodiversity</b>			
5.1	Database of tradable/commercially potential bio-resources	Kerala State Biodiversity Board (KSBB)	1	The study is aligned to the RKDP. The cross cutting sector of environment and climate change substantiates that for adopting eco-sensitive approach towards development of state it is necessary to establish a Biodiversity Information System as part of Biodiversity Strategies and Action Plan. This project can be considered for approval.
5.2	Riverine Biodiversity Rejuvenation	Kerala State Biodiversity Board (KSBB)	2	Activities in the project are related to support the restoration of degraded river banks and buffer zones. Activities include taxonomic exploration, orientation programmes, skill development activities training on participatory Natural Resource Mapping and ecological monitoring, information education and communication programmes and infrastructure for sustainable management and documentation of best practices and replication strategies. Project will help protect river banks and conservation of riparian vegetation.

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
5.3	Conservation of Agrobiodiversity	Kerala State Biodiversity Board (KSBB)	2	Rapid impact assessment study carried out by KSBB points out the continuous loss of diversity of Agricultural crops earlier used by farmers as also the local flood tolerant landraces grown especially in Pokkali and Kole fields. The study recommended that an Agro ecological approach to the agricultural sector with climate-resilient locally adapted cropping pattern may be promoted and thrust was given to on farm conservation and conservation in Community gene banks. Project can be considered however, Agriculture Department, KSBB and other relevant departments/agencies/institutions need to align the project to complement the AEZ formation.
<b>Total (Biodiversity)</b>			<b>5</b>	
<b>6</b>	<b>Fisheries</b>			
6.1	Proposal for fish production in cages through participatory approach with beneficiaries of scheduled tribe in Banasurasagar Reservoir, Wayanad district	Agency for Development of Aquaculture Kerala(ADAK)	<b>3.2</b>	Proposal is to undertake farming of fishes in cages at Banasurasagar reservoir to demonstrate the technological and financial feasibility of cage farming with the ultimate objective of popularising cage farming of fish as an alternative means of fish production for enhancing the inland fish production of the state, with the participation of the local population. This project will help provide livelihood to the vulnerable population on project which has been done elsewhere. ADAK to ensure the challenges in production, distribution, supply chain and marketing are well understood and there is mechanism for handholding the beneficiary group for initial project period.
<b>Total (Fisheries)</b>			<b>3.2</b>	
<b>7</b>	<b>Agriculture</b>			
7.1.	Expansion of existing State Bio-Control Laboratory at Mannuthy	Department of Agriculture & KLDC	31.92	The proposed project will contribute to increased uptake of organic farming practices and the preservation of biodiversity. However, considering the limited information provided, the project is not aligned to the priorities identified within the RKDP Policy Framework and Action Plan which was approved by the Cabinet. Also, there is no clarity on the revenue model of the proposed refurbished lab and its plan for continued operations beyond the project period. Hence, it is recommended that additional information be provided to enable the RKI PMU to examine the revised DPR and ascertain the eligibility of the proposed project to avail funds under the RKI.
7.2	Establishment of 3 new Tissue	Department of	20.99	The proposed project will contribute to enhancement of production

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
	Culture Laboratories at Thrissur, Malappuram, Kasargod	Agriculture & KLDC		capacity. However, considering the limited information provided, the project is not aligned to the priorities identified within the RKDP Policy Framework and Action Plan which was approved by the Cabinet. Also, there is no clarity on the revenue model of the proposed lab and its plan for continued operations beyond the project period. Hence, it is recommended that additional information be provided to enable the RKI PMU to examine the revised DPR along with a detailed O&M strategy and plan, to ascertain the eligibility of the proposed project to avail funds under the RKI.
7.3	Enhancing Productivity through Integrated Farming	Department of Agriculture	20	The proposed project will promote integrated farming techniques and maximize yields. It is aligned to the priorities identified within the RKDP Policy Framework and Action Plan which was approved by the Cabinet. However, additional detailing is required on several elements (major ones include the rationale behind fixing the benchmarks/limits for financial assistance, monitoring of the beneficiary farmers, etc), as enhancement of productivity needs a chain of activities, enabling facilities & services in place with both forward and backward integration to achieve the envisaged results. These need to be closely reviewed with reference to the feasibility, detailed implementation plan and financial returns before rollout of the same. Hence, it is recommended that a DPR be provided to enable the RKI PMU to conduct further assessment and examination.
7.4	Athirappally Tribal Valley Agricultural Project	Department of Agriculture	8	The proposed project is aligned to the priorities outlined within the RKDP Policy Framework and Action Plan which was approved by the Cabinet. While the year-wise requirement for funds is mentioned, there are no details on the fund requirements of specific interventions/items. The proposal mentions that the main impact is a 4X jump in family incomes, but it is not clear how these calculations have been arrived at. Also, the element of convergence between multiple Departments (SC/ST Department, LSGD, etc) should be addressed. Hence, it is recommended that the DPR be shared with the RKI PMU to enable further assessment and examination.
7.5	Comprehensive & Sustainable Agricultural Development Project	Department of Agriculture	8	The proposed project is closely aligned to the priorities identified within the RKDP Policy Framework and Action Plan and will

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
	for Attappady.			significantly contribute towards expansion of area under cultivation, strengthening Farmers Producer Organizations, implementing seed back programs, etc. However, given the limited information on convergence with other relevant Departments (Irrigation Department, SC/ST Department, LSGD, etc) and utilization of benefits under other schemes, and the processes/steps to be undertaken for strengthening FPOs is not clear. Therefore, it is recommended that the DPR for the proposal be shared with RKI for review and ascertain eligibility for funding under the RKDP.
7.6	Establishment of Cold Chain for High Value Vegetables in Kerala (Supply Chain for F & V)	HortiCorp and Vegetable and Fruits Promotion Council Keralam (VFPCCK)	25	The proposed project is closely aligned to priorities identified within the RKDP Policy Framework and Action Plan. Further detailing on the type of cool season vegetables expected to be produced, the extent to which the proposed facility will help to counter perishability issues, the rationale behind investing in dedicated transport facilities/vans vis-à-vis outsourcing of transport activities, etc is required, especially when the production volumes, individual farm production, farm gate collection routes etc are still not worked out to ensure operational efficiency. Many parts of the proposed project are ideally suitable for private sector investments as efficiency of the operations is critical for the desired financial returns. IN addition, if government were to pick up the costs relating (a) recurring O& M costs of plant, machinery, & Human resources; (b) marketing – continued funding will be required for sustenance as revenue shown in the presentation has not taken in to consideration the operational costs. Also, rather than providing overall year-on-year projection of sales revenues, it would be meaningful to calculate the revenue generation which may be solely attributed to the establishment of the cold chain facilities. It is recommended that a DPR be prepared which will be reviewed by the RKI PMU to ascertain eligibility for financial support under the RKDP.
7.7	Jackfruit Value chain Development in Kerala	Department of Agriculture & Vegetable and Fruits Promotion Council	10	The RKDP Policy Framework and Action Plan proposes value chain studies for key crops including jackfruit. Hence, it is recommended that this project proposal be considered after the successful execution of the value chain studies

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
		Keralam (VFPCK)		
7.8	Project on Strengthening Marketing network in Kerala	Vegetable and Fruits Promotion Council Keralam (VFPCK)	15	The proposed project is directed towards strengthening infrastructure, providing facilities for post-harvest processing and value addition, building forward and backward linkages, promoting exports, etc. The main components are those related to reconstruction/rehabilitation of flood damaged infrastructure. Although it is closely aligned to the priority interventions identified within the RKDP Policy Framework and Action Plan, the reestablishment of these infrastructure should be prudently analyzed for optimum utilization of the assets productively to ensure return on investments Hence, it is recommended that a DPR be provided to enable the RKI PMU to conduct further assessment and examination.
7.9	Infrastructure Development for Flood Management in Kuttanad - Phase I	KLDC	60	The major interventions proposed are the construction of outer bunds to padasekharams, establishment of side protection walls and leading channel protections, construction of engine platforms and flood inlets, and deepening and de-clogging the main canals and connecting canals. While the interventions are closely aligned to the priority interventions identified within the RKDP Policy Framework and Action Plan, it is required that a plan for convergence with other relevant Departments like the Water Resources Department and the LSGD as well as for utilization of funds under other schemes/packages (for eg:- the Kuttanad Package) be prepared to ensure optimal use of subsidies and benefits. Also the technical designs of the embankments needs to be assessed to ensure that the rehabilitation leads to sustenance of the investments through application of new technologies and designs, which has not been done in the past. Hence, it is recommended that the additional details are incorporated within a DPR which will subsequently be examined by the RKI PMU.
7.10	Centre of Excellence for Vegetables and Flowers at Wayanad	State Horticultural Mission (SHM)	4	We understand that technical assistance will be provided by the Government of Netherlands under the Indo-Dutch Action Plan. The intended outcomes of technology uptake, employment generation, market intelligence support, etc are in line with the priorities identified

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
				<p>within the RKDP Policy Framework and Action Plan. This proposal needs to be reviewed carefully with reference to the following fundamental questions:</p> <ul style="list-style-type: none"> <li>i). a primary question as to how many international events and flowers varieties could be produced in Kerala within the existing farm holdings, deviating the prevalent practices of cultivation by farmers.</li> <li>ii). Is a specific center required at all for this activity when the same could be undertaken/experimented by KAU within their existing premises and laboratories, which are underutilized?</li> <li>iii). How much of the ongoing activities of existing institutions of the Department of Agriculture in Ambalavayal has achieved its goals and objectives till date.?</li> </ul> <p>The above needs to be analyzed both for regional agricultural colleges and a SWOT analysis of the activities of KAU needs to be carried out to allow recasting of the operations to achieve productive results in field.</p> <p>There is a need to establish a plan of convergence with the efforts and initiatives of the existing institutions [ foreg:- Regional Agricultural Research Station (RARS) Ambalavayal, College of Agriculture (CoA) Wayanad ] in the region as well as assessment of utilization of their infrastructure and facilities for training, research and extension. Additionally, details on the expected streams of revenue are required. It is recommended that the additional details be incorporated within a DPR which will subsequently be examined by the RKI PMU</p>
7.11	Establishment of Cardonet – Traceability System for Kerala Cardamom exported to the international market	KAU	4	<p>Establishing ICT-based systems for planning and evidence-based decision making in the agriculture sector has been highlighted as a priority within the RKDP Policy Framework and Action Plan. However, given that there are ongoing efforts to build a State-wide Agriculture Services IT Applications Platform and MIS, it would be prudent to consider this project proposal after the MIS has been established so as to ensure appropriate integration with the MIS, and</p>

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
				enable seamless data entry and linkages.
7.12	Integrated Farm Management for holistic development in DAF, Neriamangalam	Department of Agriculture & KLDC	50	The proposed project is closely aligned to priorities identified within the RKDP Policy Framework and Action Plan, which has been approved by the Cabinet. A break-up of the expenses foreseen for infrastructure development, operational costs, recurring and non-recurring costs, etc should be provided. Additionally, issues of non-compliance to regulatory policies of the State on matters like Farm Tourism should be considered and a plan for convergence with the initiatives of the Department of Animal Husbandry, Department of Fisheries, LSGD, etc must be prepared. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.13	Sustainable development of Kuttanad Rice Ecosystem through Agro Ecological Crop Health Service delivery	Department of Agriculture	2.91	While the interventions are closely aligned to the priority interventions identified within the RKDP Policy Framework and Action Plan approved by the Cabinet, it is required that a plan for convergence with other relevant Departments like the Water Resources Department and the LSGD as well as for utilization of funds under other schemes/packages (for eg:- the Kuttanad Package) be prepared to ensure optimal use of subsidies and benefits. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.14	Improved Infrastructure Facilities to overcome Flood and Drought in Thrissur PonnaniKole Lands	Department of Agriculture, KLDC, KSEB, KAICO	308.8	While the interventions are closely aligned to the priority interventions identified within the RKDP Policy Framework and Action Plan approved by the Cabinet, it is required that a plan for convergence with other relevant Departments like the Water Resources Department and the LSGD as well as for utilization of funds under other schemes/packages be prepared to ensure optimal use of subsidies and benefits. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.15	Flood Management in KuttanaduPadasekharams – Phase II	KLDC	100.7	While the interventions are closely aligned to the priority interventions identified within the RKDP Policy Framework and Action Plan approved by the Cabinet, it is required that a plan for

Sl. No	Proposal	Implementing Agency	Financial Estimates (INR Crores)	Recommendations of the RKI-IC
				convergence with other relevant Departments like the Water Resources Department and the LSGD as well as for utilization of funds under other schemes/packages (for eg:- the Kuttanad Package) be prepared to ensure optimal use of subsidies and benefits. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.16	Integrated Infrastructural Developments in Cherukunnu and Mayyil Panchayats in Kannur (Vol I,II,III)	KLDC	26.05	While the interventions are closely aligned to the priority interventions identified within the RKDP Policy Framework and Action Plan approved by the Cabinet, it is required that a plan for convergence with other relevant Departments like the Water Resources Department and the LSGD as well as for utilization of funds under other schemes/packages be prepared to ensure optimal use of subsidies and benefits. Also, a detailed cost estimate is required. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.17	Improvements to KakkulamMuttakkadavu in KuzhurGramapanchayath in Thrissur District	KLDC	6.59	While the interventions are closely aligned to the priority interventions identified within the RKDP Policy Framework and Action Plan approved by the Cabinet, it is required that a plan for convergence with other relevant Departments like the Water Resources Department and the LSGD as well as for utilization of funds under other schemes/packages (for eg:- the Kuttanad Package) be prepared to ensure optimal use of subsidies and benefits. Also, a detailed cost estimate is required. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU.
7.18	Improving livelihood security through agri-tourism: Evolving models at the research and extension centres of the Kerala Agriculture University	KAU	7.5	The details provided are not adequate to assess the alignment of the project proposal with the RKDP Policy Framework and Action Plan. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.19	Enhancing production of bio inputs for sustainable and climate	KAU	7	The details provided are not adequate to assess the alignment of the project proposal with the RKDP Policy Framework and Action Plan. It



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	resilient agricultural development in Kerala			is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.20	Human Resources Development for Good Agricultural Practices and entrepreneurship: Capacity building for extension personnel in State Department of Agriculture Development and Farmers Welfare	KAU	2	The project proposal is in line with the priorities identified within the the RKDP Policy Framework and Action Plan. However, there is no information on the approach to be adopted for building the capabilities of the extension personnel. The envisaged steps and activities which will be taken to achieve the desired outcomes should be clearly mentioned, along with a detailed cost break-up. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.21	Enhancing livelihood security of small holders in Kerala through value addition and entrepreneurship development: Establishment of Farm Business School and Incubation Centres in Kerala Agricultural University	KAU	9	<p>Livelihood generation is one of the focus areas of the RKDP Policy Framework and Action Plan. However, the details provided within the project proposal are not sufficient to study the proposal and examine its feasibility and viability. Many questions are left unanswered; the major ones being – What are the revenue models of the proposed interventions? Has a demand assessment been undertaken to estimate the scope of enrolments at the Farm Business School? Why would learners choose KAU's entrepreneurship programs over others available in the market? What is the fee model – discounted or full fees? How can the incubator be sustainably operated beyond the project period? What efforts will be made to ensure industry engagement and collaboration as part of the operationalization of the incubator?</p> <p>It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU</p>
7.22	Development of a Farming System Based Cyber Extension Model for the State of Kerala	KAU	2	Establishing ICT-based systems for planning and evidence-based decision making in the agriculture sector has been highlighted as a priority within the RKDP Policy Framework and Action Plan. However, given that there are ongoing efforts to build a State-wide Agriculture Services IT Applications Platform and MIS, it would be

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				prudent to consider this project proposal after the MIS has been established so as to ensure appropriate integration with the MIS. There are prospects of the MIS being able to support the functionalities mentioned within the project proposal; to save time, effort and funds, this project proposal should be kept on hold until the MIS is fully functional
7.23	Establishing a knowledge management system on agriculture in Kerala and strengthening e-Governance in KAU	KAU	5.14	Strengthening the IT infrastructure and systems of KAU is not aligned to the priorities identified within RKDP Policy Framework and Action Plan
7.24	Building resilience of tribal communities in Kerala – Enhancing livelihood nutritional security of tribal communities through ethnic food baskets and wider extension services	KAU	2.7	The details provided are not adequate to assess the alignment of the project proposal with the RKDP Policy Framework and Action Plan. The role of the training and extension centers is not clear. There is a need to establish a plan of convergence with the efforts and initiatives of the existing institutions [ foreg:- Regional Agricultural Research Station (RARS) Ambalavayal, College of Agriculture (CoA) Wayanad ] in the region as well as assessment of utilization of their infrastructure and facilities for training, research and extension. The approach for preparation of the Individual Nutrition Plan (INP), Family Nutrition Plan (FNP), Habitat Food Security Plan (HFS plan), etc is not defined. Additionally, details on the expected streams of revenue, if any, are required. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.25	Establishment of an international convention and exhibition centre for showcasing commercial agricultural technologies at Ambalavayal, Wayanad	KAU	6.5	The details provided are not adequate to assess the alignment of the project proposal with the RKDP Policy Framework and Action Plan. Utilization of existing institutions [ foreg:- Regional Agricultural Research Station (RARS) Ambalavayal, College of Agriculture (CoA) Wayanad ] in the region for training, research and extension should be examined. Also, the feasibility of the proposed Convention and Exhibition Center needs to be examined in detail; international events are one of the major focus areas but it might not be feasible to conduct more than 1 in an year. The revenue model should be prepared, to demonstrate sustainability and continuity beyond the

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				project period. Also, the scope for round-the-year utilization of the proposed Convention and Exhibition Center should be studied, given that it should not be left unutilized for long periods of time. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.26	Establishment of cashew plantations in various agro-climatic zones of Kerala	KAU	3	The proposed project is aligned to priorities identified within the RKDP Policy Framework and Action Plan. Since agro-ecological zone-based evaluation of factors affecting productivity of various crops and preparation of probable best practice solutions is a study identified within the RKDP Policy Framework and Action Plan, the findings of this study should be considered during the establishment of cashew plantations in various agro-climatic zones of Kerala. Additional detailing on the interventions planned, approach to be adopted, cost components, convergence and collaborative efforts of all the relevant institutions (Cashew Research Station, Central Plantation Crops Research Institute, and others), etc should be provided. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.27	Development of Kaipad Organic Tided Wet Lands of North Kerala through mechanised farming	KAU	0.56	The concept and objectives of the proposed project are aligned to priorities identified within the RKDP Policy Framework and Action Plan. However, comprehensive documentation of the steps and activities to be undertaken, cost estimates, revenue models, efforts for convergence, etc should be provided. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.28	Integrated development of Kaipad Tided Wet Lands of North Kerala through Rice Germ Plasm conservation and Biodiversity based farming	KAU	5.1	The concept and objectives of the proposed project are aligned to priorities identified within the RKDP Policy Framework and Action Plan. However, comprehensive documentation of the steps and activities to be undertaken, cost estimates, revenue models, efforts for convergence, etc should be provided. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by

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				the RKI PMU
7.29	Pesticide residue analysis laboratories for export commodities in PPP mode	KAU	50	The details provided are not adequate to justify the alignment of the project proposal with the RKDP Policy Framework and Action Plan. The focus areas for strengthening the labs, the target geography for establishing a new lab, an estimate of the number of beneficiaries, expected revenue model, plan for continued operations beyond the project period, etc are some of the details to be provided. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.30	Expansion and modernisation of production facilities in VAFPCL	Vazhakulam Agro & Fruit Production Company Ltd (VAFPCL)	16.49	The project proposal is not aligned to the priorities identified within RKDP Policy Framework and Action Plan which has been approved by the Cabinet
7.31	Modernisation of Pineapple juice concentrate plant and factory renovation	Vazhakulam Agro & Fruit Production Company Ltd (VAFPCL)	1.32	The project proposal is not aligned to the priorities identified within RKDP Policy Framework and Action Plan which has been approved by the Cabinet
7.32	ChengannurSamridhi - TharishurahithaMandalamPadhathi	Department of Agriculture	62.14	The concept and objectives of the proposed project are aligned to priorities identified within the RKDP Policy Framework and Action Plan. However, comprehensive documentation of the steps and activities to be undertaken, cost estimates, revenue models, efforts for convergence with relevant Departments (Water Resources Department, LSGD, and others), etc should be provided. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
7.33	Enhancing climate smart agriculture in Fruits and Vegetables based on Agro Ecological Zones	Vegetable and Fruits Promotion Council Kerala (VFPCCK)	16.5	Since the Package of Practices (POP) preparation for agro-ecological zones will be undertaken by the KAU and the Department of Agriculture, it would be prudent to understand their work areas and leave out such components from the project proposal. Also, a close integration with their activities is required for which this proposal may temporarily be put on hold

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7.34	Modernisation and Diversification of Integrated coconut processing Complex, Mamom	Kerala State Coconut Development Corporation (KSCDC)	22.11	The project proposal is not aligned to the priorities identified within RKDP Policy Framework and Action Plan which has been approved by the Cabinet.
7.35	Setting up of cosmetic manufacturing Plant at Edappally	Kerala State Coconut Development Corporation (KSCDC)	24.39	The project proposal is not aligned to the priorities identified within RKDP Policy Framework and Action Plan which has been approved by the Cabinet
<b>Total (Agriculture)</b>			<b>945.4</b>	
<b>8</b>	<b>Animal Husbandry</b>			
8.1	Mobile tele-veterinary units on regional basis	Animal Husbandry Department	2.21	The proposed interventions are closely aligned to the priorities identified within the RKDP Policy Framework and Action Plan which has been approved by the Cabinet. Hence, it is recommended that the project proposals can be further considered for implementation. It is recommended that all the pertinent details of the proposal are comprehensively documented within a DPR which will subsequently be examined by the RKI PMU
8.2	GIS and RFID technology adoption	Animal Husbandry Department	20.8	
8.3	Production of Sexed Semen for Conservation and Propagation of Elite Germplasm of Indigenous Cattle and Buffalo	Animal Husbandry Department	49.68	
8.4	Livestock insurance master policy	Animal Husbandry Department	25	
<b>Total (Animal Husbandry)</b>			<b>97.69</b>	
<b>9</b>	<b>Other RKI interventions</b>			
9.1	Rebuild Kerala Initiatives - Renovation/reconstruction of Village Offices	Revenue Department	30	RKI is of the opinion that rebuilding of the flood hit village offices should involve the principles of resilience which RKI is advocating. Hence, it is of the opinion that site-specific DPR to be prepared for each of the proposed village office which is reconstructed/renovated imbibing the resilient, standards for which an expert agency may be identified by floating RFP. For the preparation of the entire DPRs, funds can be provided from RKI.
<b>Total (Other interventions)</b>			<b>30</b>	

