

Appendix 1
Profile of audited entities
(Referred to in Paragraph 1.2)

| Sl. No. | Name of the Department | Objective/ Functions of the Department |
|---------|---|---|
| 1 | Environment and Climate Change | The main objective of the Directorate of Environment and Climate Change (DoECC) under Environment Department is placing the environmental concerns at the forefront of sustainable development for maintaining the quality of life of the people of the State by strengthening environmental governance for maintaining environmental sustainability of the State; Integrating environmental aspects in the development processes; Investment in environmental management programmes in the State at community level and create a civic movement on upkeep of environmental sustainability. |
| 2 | Forest and Wildlife | The objectives are to conserve and expand unique and complex natural forests of Kerala for posterity, in particular with regard to water; biodiversity; extent; productivity; soil, environmental, historical, cultural and aesthetic values, without affecting their ecological processes, to conserve, maintain and enhance the existing gene pool of the State for posterity, to reduce pressure on forest through appropriate interventions, to sustainably conserve and manage biodiversity-rich and sensitive ecosystems such as mangroves, sacred groves, coastal areas, wetlands, homesteads, private plantations <i>etc.</i> , which are outside the control of the Forest Department, to meet the livelihood needs of tribals and other forest dependent communities, to improve the standard of living of the forest dependent tribals and village communities <i>etc.</i> |
| 3 | Public Works | The Public Works Department is the Statutory Authority for designing, planning, monitoring, constructing and undertaking maintenance of public works of the State Government such as Government Buildings, Roads, Bridges <i>etc.</i> , irrespective of the source of funds for the same |
| 4 | Science and Technology | The objectives are to promote new areas of Science and Technology and to play the role of a nodal Department for organising, coordinating and promoting Science & Technology activities in the country. |
| 5 | Industries and Commerce | The objectives are to create necessary industrial infrastructure and provide adequate logistical support to facilitate industrial growth in the state. |
| 6 | Power | The objective is to increase power generation to ensure availability of power in tune with increased demand. |
| 7 | Cultural Affairs | The Department of Culture is formed to preserve and promote Kerala's unique culture, art, literature and rituals. |
| 8 | Electronics and Information Technology | The Department aims to promote digital innovations and make Kerala No.1 digital state. |

| Sl. No. | Name of the Department | Objective/ Functions of the Department |
|----------------|-------------------------------|---|
| 9 | Port | The Department aims to enhance the productivity of the ports through innovation and implementation of latest technology solutions in various areas of Port operations and functions. |
| 10 | Tourism | The Department formulates policies and programs for the co-ordination of activities for the development and promotion of tourism in the State. |
| 11 | Transport | Aims to have a sustainable, efficient, safe and internationally comparable quality of road infrastructure in general and State Highways infrastructure in particular to achieve enhanced connectivity, quick mobility to a level which accelerate socio-economic development. |

Appendix 2
Statement showing age-wise analysis of Inspection Reports and paragraphs outstanding in Departments
(Referred to in Paragraph 1.7.1.1)

| Sl. No. | Name of Department | Number of Inspection Reports outstanding | | | | Number of paragraphs outstanding | | | |
|--------------|--------------------------------------|--|-----------------------------|-------------------|--------------|----------------------------------|-----------------------------|-------------------|--------------|
| | | Older than five years | Between three to five years | Up to three years | Total | Older than five years | Between three to five years | Up to three years | Total |
| 1 | Cultural Affairs | 57 | 26 | 9 | 92 | 195 | 212 | 67 | 474 |
| 2 | Electronics & Information Technology | 17 | 2 | 5 | 24 | 159 | 12 | 45 | 216 |
| 3 | Industries & Commerce | 54 | 20 | 4 | 78 | 158 | 179 | 42 | 379 |
| 4 | Ports | 11 | 5 | 0 | 16 | 29 | 18 | 0 | 47 |
| 5 | Tourism | 14 | 2 | 2 | 18 | 68 | 19 | 21 | 108 |
| 6 | Transport | 161 | 101 | 32 | 294 | 872 | 1,083 | 422 | 2,377 |
| 7 | Power | 19 | 6 | 2 | 27 | 67 | 33 | 10 | 110 |
| 8 | Environment | 4 | 2 | 6 | 12 | 18 | 23 | 45 | 86 |
| 9 | Public Works | 257 | 31 | 39 | 327 | 1,124 | 255 | 355 | 1,734 |
| 10 | Forests and Wildlife | 70 | 32 | 62 | 164 | 191 | 125 | 463 | 779 |
| 11 | Science and Technology | 18 | 2 | 4 | 24 | 55 | 15 | 15 | 85 |
| Total | | 682 | 229 | 165 | 1,076 | 2,936 | 1,974 | 1,485 | 6,395 |

Appendix 3
Statement showing age-wise analysis of Inspection Reports and Paragraphs outstanding in Public Sector Undertakings
(Referred to in Paragraph 1.7.1.2)

| Sl. No. | Name of PSU | Number of Pending IRs | | | Number of Paragraphs outstanding | | | | |
|---------|--|-----------------------|-----------------------------|-------------------|----------------------------------|----------------------|-----------------------------|-------------------|-------|
| | | Older than five Year | Between three to five years | Up to three Years | Total | Older than five Year | Between three to five years | Up to three Years | Total |
| 1 | The Kerala State Coir Corporation Limited | 1 | 1 | 0 | 2 | 3 | 6 | 0 | 9 |
| 2 | Autokast Limited | 2 | 0 | 0 | 2 | 9 | 0 | 0 | 9 |
| 3 | Bekal Resorts Development Corporation Limited | 2 | 0 | 1 | 3 | 7 | 0 | 7 | 14 |
| 4 | Foam Mattings (India) Limited | 2 | 0 | 1 | 3 | 9 | 0 | 4 | 13 |
| 5 | Forest Industries (Travancore) Limited | 3 | 1 | 1 | 5 | 11 | 10 | 10 | 31 |
| 6 | Handicrafts Development Corporation of Kerala Limited | 0 | 1 | 1 | 2 | 0 | 7 | 7 | 14 |
| 7 | Indian Institute of Information Technology and Management-Kerala | 1 | 1 | 0 | 2 | 3 | 8 | 0 | 11 |
| 8 | Kerala Automobiles Limited | 2 | 1 | 1 | 4 | 6 | 7 | 5 | 18 |
| 9 | Kanjikode Electronics and Electricals Limited | 3 | 0 | 0 | 3 | 8 | 0 | 0 | 8 |
| 10 | Kannur International Airport Limited | 1 | 0 | 0 | 1 | 21 | 0 | 0 | 21 |
| 11 | KCCP Limited | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 5 |
| 12 | Kerala Electrical and Electricals Limited | 1 | 1 | 1 | 3 | 1 | 5 | 12 | 18 |
| 13 | Keltron Component Complex Limited | 3 | 1 | 1 | 5 | 12 | 4 | 2 | 18 |
| 14 | Keltron Electro Ceramics Limited | 1 | 1 | 0 | 2 | 3 | 11 | 0 | 14 |
| 15 | Kerala Artisans Development Corporation Limited | 1 | 0 | 1 | 2 | 4 | 0 | 12 | 16 |
| 16 | Kerala Cashew Board Limited | 0 | 0 | 1 | 1 | 0 | 0 | 8 | 8 |
| 17 | Kerala Fibre Optic Network Limited | 0 | 0 | 1 | 1 | 0 | 0 | 9 | 9 |
| 18 | Kerala High Speed Rail Corporation Limited | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| 19 | Kerala Industrial Infrastructure Development Corporation | 5 | 1 | 0 | 6 | 15 | 16 | 0 | 31 |

| Sl. No. | Name of PSU | Number of Pending IRs | | | | Number of Paragraphs outstanding | | | |
|---------|--|-----------------------|-----------------------------|-------------------|-------|----------------------------------|-----------------------------|-------------------|-------|
| | | Older than five Year | Between three to five years | Up to three Years | Total | Older than five Year | Between three to five years | Up to three Years | Total |
| 20 | The Kerala Minerals and Metals Limited | 1 | 1 | 2 | 4 | 2 | 8 | 13 | 23 |
| 21 | Kerala Rail Development Corporation Limited | 0 | 0 | 1 | 1 | 0 | 0 | 11 | 11 |
| 22 | Kerala State Bamboo Corporation Limited | 2 | 1 | 1 | 4 | 4 | 5 | 10 | 19 |
| 23 | Kerala State Cashew Development Corporation Limited | 0 | 1 | 1 | 2 | 0 | 7 | 15 | 22 |
| 24 | Kerala State Coir Machinery Manufacturing Company Limited | 0 | 1 | 0 | 1 | 0 | 7 | 0 | 7 |
| 25 | Kerala State Drugs and Pharmaceuticals Limited | 1 | 1 | 1 | 3 | 4 | 9 | 6 | 19 |
| 26 | Kerala State Electronic Development Corporation Limited | 1 | 1 | 1 | 3 | 5 | 3 | 13 | 21 |
| 27 | Kerala State Film Development Corporation Limited | 2 | 1 | 0 | 3 | 7 | 8 | 0 | 15 |
| 28 | Kerala State Handloom Development Corporation Limited | 1 | 1 | 1 | 3 | 6 | 2 | 12 | 20 |
| 29 | Kerala State Industrial Enterprises Limited | 3 | 0 | 0 | 3 | 19 | 0 | 0 | 19 |
| 30 | Kerala State Information Technology Infrastructure Limited | 2 | 1 | 0 | 3 | 7 | 6 | 0 | 13 |
| 31 | Kerala State Maritime Development Corporation Limited | 1 | 1 | 0 | 2 | 9 | 9 | 0 | 18 |
| 32 | Kerala State Mineral Development Corporation Limited | 0 | 1 | 1 | 2 | 0 | 3 | 6 | 9 |
| 33 | Kerala State Palmyrah Products Development and Workers Welfare Corporation Limited | 3 | 1 | 0 | 4 | 12 | 4 | 0 | 16 |
| 34 | Kerala State Textile Corporation Limited | 3 | 1 | 0 | 4 | 6 | 11 | 0 | 17 |
| 35 | Kerala Tourism Development Corporation Limited | 1 | 2 | 1 | 4 | 7 | 23 | 12 | 42 |
| 36 | Kerala Tourism Infrastructure Limited | 2 | 1 | 0 | 3 | 5 | 5 | 0 | 10 |
| 37 | Kerala Transport Development Finance Corporation | 4 | 2 | 0 | 6 | 31 | 20 | 0 | 51 |
| 38 | Kinesco Power and Utilities Pvt Ltd | 1 | 1 | 0 | 2 | 2 | 8 | 0 | 10 |

| Sl. No. | Name of PSU | Number of Pending IRs | | | | Number of Paragraphs outstanding | | | |
|---------|---|-----------------------|-----------------------------|-------------------|-------|----------------------------------|-----------------------------|-------------------|-------|
| | | Older than five Year | Between three to five years | Up to three Years | Total | Older than five Year | Between three to five years | Up to three Years | Total |
| 39 | Kinfra Export Promotion Industrial Parks | 1 | 1 | 1 | 3 | 3 | 10 | 4 | 17 |
| 40 | Kinfra Film and Video Park | 1 | 0 | 1 | 2 | 2 | 0 | 6 | 8 |
| 41 | Kinfra International Apparel Parks Limited | 1 | 1 | 1 | 3 | 2 | 4 | 3 | 9 |
| 42 | Kerala State Industrial Development Corporation Limited | 3 | 1 | 1 | 5 | 23 | 2 | 14 | 39 |
| 43 | Malabar Cements Limited | 3 | 1 | 1 | 5 | 8 | 7 | 10 | 25 |
| 44 | Malabar International Ports and SEZ Limited | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 5 |
| 45 | Marine Products Infrastructure Development Corporation | 0 | 1 | 0 | 1 | 0 | 5 | 0 | 5 |
| 46 | The Metal Industries Limited | 0 | 1 | 1 | 2 | 0 | 3 | 6 | 9 |
| 47 | Muziris Projects Limited | 0 | 1 | 0 | 1 | 0 | 6 | 0 | 6 |
| 48 | SAIL-SCL | 3 | 1 | 0 | 4 | 14 | 8 | 0 | 22 |
| 49 | Small Industries Development Corporation | 2 | 1 | 1 | 4 | 14 | 6 | 14 | 34 |
| 50 | Steel and Industrial Forgings Limited | 6 | 1 | 1 | 8 | 5 | 6 | 9 | 20 |
| 51 | Steel Industries Kerala Limited | 6 | 1 | 1 | 8 | 25 | 7 | 11 | 43 |
| 52 | Sitaram Textiles Limited | 1 | 1 | 0 | 2 | 3 | 7 | 0 | 10 |
| 53 | The Kerala Ceramics Limited | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 |
| 54 | The Travancore Cements Limited | 2 | 1 | 0 | 3 | 4 | 11 | 0 | 15 |
| 55 | TRACO Cable Company Limited | 3 | 1 | 1 | 5 | 7 | 10 | 13 | 30 |
| 56 | Transformers and Electricals Kerala Limited | 1 | 1 | 1 | 3 | 1 | 7 | 8 | 16 |
| 57 | The Travancore Cochin Chemicals Limited | 1 | 1 | 1 | 3 | 1 | 1 | 6 | 8 |
| 58 | Travancore Titanium Products Limited | 0 | 1 | 1 | 2 | 0 | 5 | 5 | 10 |
| 59 | Trivandrum Spinning Mills Limited | 1 | 1 | 0 | 2 | 2 | 14 | 0 | 16 |
| 60 | United Electrical Industries Limited | 2 | 0 | 1 | 3 | 14 | 0 | 9 | 23 |
| 61 | Vizhinjam International Seaport Limited | 1 | 0 | 1 | 2 | 5 | 0 | 6 | 11 |

| Sl. No. | Name of PSU | Number of Pending IRs | | | | Number of Paragraphs outstanding | | | |
|---------|---|-----------------------|-----------------------------|-------------------|------------|----------------------------------|-----------------------------|-------------------|--------------|
| | | Older than five Year | Between three to five years | Up to three Years | Total | Older than five Year | Between three to five years | Up to three Years | Total |
| 62 | Kerala State Road Transport Corporation | 38 | 7 | 7 | 52 | 154 | 73 | 60 | 287 |
| 63 | Kerala State Electricity Board Limited | 59 | 21 | 13 | 93 | 284 | 135 | 116 | 535 |
| 64 | Kerala State Power Infrastructure Finance Corporation | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 5 |
| 65 | Kerala State Construction Corporation | 0 | 1 | 1 | 2 | 0 | 11 | 9 | 20 |
| 66 | Road Infrastructure Company Kerala Limited | 1 | 0 | 1 | 2 | 6 | 0 | 4 | 10 |
| 67 | Kerala Forest Development Corporation | 2 | 1 | 0 | 3 | 2 | 6 | 0 | 8 |
| 68 | Roads and Bridges Development Corporation of Kerala Limited | 2 | 1 | 0 | 3 | 7 | 9 | 0 | 16 |
| | Total | 197 | 78 | 60 | 335 | 825 | 567 | 502 | 1,894 |

Appendix 4
Details of Encroachment
(Referred to in Paragraph 2.1.7.4)

| Name of Division | KFS data – Extent of encroachment (ha) | | Increase / Decrease (-) | Audit observation | Under reporting |
|------------------------------|--|---------------------|-------------------------|---|-----------------|
| | As on 31 March 2018 | As on 31 March 2021 | | | |
| Territorial Divisions | | | | | |
| Thiruvananthapuram | 0 | 0.59 | 0.59 | Increased | - |
| Ranni | 1.13 | 1.74 | 0.61 | Increased | - |
| Marayoor | 0.03 | 0.03 | 0 | Forest land to the extent of 1903 ha was converted to revenue land and <i>pattas</i> issued in 88.46 ha. | |
| Malayattoor | 129.29 | 127.66 | -1.63 | Decreased. But 28.50 ha encroachment in Kalady range not recorded. Hence, there was 26.87 ha increase in encroachment. | 28.50 |
| Palakkad | 190.58 | 37.69 | -152.89 | Decreased | - |
| Mannarkkad | 2,700.34 (Actual 677.14 = 2,700.34 - 2,023.20) | 664.28 | -12.86 | Decreased. An extent of 2,023.20 ha land used by tribes for shifting cultivation reckoned as encroachment in 2016 statistics. Hence, actual decrease was only 12.86 ha. | |
| Wayanad South | 1,369.29 (Actual 668.03) | 717.63 | 49.60 | Increased. | |
| Kannur | 11.02 | 50.66 | 39.64 | Increased | - |
| Wildlife Divisions | | | | | |
| Periyar East | 0.01 | 4.39 | 4.38 | Increased | - |
| Wayanad | 0 | 0.63 | 0.63 | Increased. 354 ha area encroached was not reported. Hence, total increase in encroachment was 354.63 ha. | 354 |
| Total | 1,677.23 | 1,605.30 | -71.93 | | 382.50 |

Out of 11 selected divisions:

- There was encroachment of 1,605.30 ha in 10 selected divisions. No encroachments were reported in Parambikulam Tiger Reserve.
- In two divisions (Mannarkad and South Wayanad), the area originally shown in 2016 statistics was calculated erroneously. It was corrected later in 2020. So, the difference was adjusted in 2018 figures to arrive at the actual increase or decrease.
- There was under reporting of encroachment by 382.50 ha due to non-inclusion of encroachments in Malayattoor (28.50 ha) and Wayanad divisions (354 ha).

Appendix 5
Non implementation of sanctioned fencing projects
(Referred to in Paragraph 2.1.8.1, 4th bullet)

| Project Name | Details of Project |
|--|--|
| Krishi Raksha Padhathi | Government of Kerala accorded Administrative Sanction ²⁵⁷ (August 2014) for the project 'Krishi Raksha Padhathi' for the benefit of farmers to protect agricultural crops from the attack of wild animals through various measures such as construction of elephant-proof walls, stone pitched trenches, rail fence, bio-fence and solar fence for a length of 692 km ²⁵⁸ at areas susceptible to HWC. The total project cost was ₹259.81 crore and was planned to be implemented during the period 2014-16. Only ₹3.20 crore (0.01 per cent) was utilised under the scheme. The department could not furnish details of work done and/or the reason for failure to implement the scheme. |
| Integrated Tribal Development Project (ITDP) | To reduce HWCs in the Attappady tribal area, an amount of ₹2.66 crore was allotted ²⁵⁹ in December 2016 under Additional Tribal Sub Plan to Mannarkkad Forest Division for construction of 18.7 km Elephant proof trench in four locations and 2.3 km elephant proof wall in two locations under Attappady and Agali range. In two locations EPTs were constructed at a cost of ₹0.41 crore. But citing public protest in the construction and technical issue in executing the same the project was dropped and balance amount of ₹2.29 crore (including interest) was returned in January 2020. |
| Construction of crash guard fencing | Absence of proper studies and ensuring public support before arranging the works led to lapse of fund received. In order to reduce HWC, Government gave administrative sanction ²⁶⁰ (November 2018) for construction of crash guard fencing in South Wayanad division, Kalpetta for a total length of 25.7 km in four locations under Pulpally and Meppady range for an amount of ₹13.90 crore. The work was technically sanctioned in October 2019. The total length of the work was divided into four reaches and tenders invited as four separate works. Out of the four works two works were not awarded due to delay in finalization of tenders. In respect of two other works though awarded (February 2021), the works could not be commenced as the estimate of two works were prepared without considering actual site condition and hence revised. Ultimately none of the works were started and the objective of reducing HWC by constructing the preventive structure was not achieved. |

²⁵⁷ G.O.(MS) No. 73/2014/F&WLD dated 28 August 2014

²⁵⁸ Solar fencing-106 km, Elephant-proof trench-340 km, Elephant-proof wall-139 km, Rail fencing-61 km, Bio-fence-46 km

²⁵⁹ Palakkad District Collector's order No. B2-1790/14/JTDP dated 01 December 2016

²⁶⁰ GO MS No. 46/2018/F&WLD dated 12 November 2018

Appendix 6
Lapses in functioning of Rapid Response Team
(Referred to in Paragraph 2.1.8.8)

| Item | Guidelines for management of HEC | RRT Guidelines | Observations on six selected divisions where RRTs are functioning |
|--|--|---|---|
| Staff pattern | The RRT should ideally consist of a biologist and a veterinarian to address all aspect of the conflict | Biologist and a veterinarian not envisaged | Except in RRT Wayanad wildlife division no RRT is having a biologist and/or a veterinarian. |
| Formation of Primary response team (PRT) | Develop Primary Response Team (PRT) in each village who could work as first level of defence to drive the elephant and keep crowd away till the time the RRT reaches | No provision | Orders/ guidelines for forming PRTs were not issued and no PRTs were seen functioning in selected divisions. |
| Equipment/ Tools | The persons should be well equipped and disciplined | List of tools to be maintained is given | None of the RRTs have adequate tools and equipment as envisaged in the RRT guidelines of the Department (March 2019). |
| Training | RRTs and PRTs have to be adequately trained and equipped in HEC mitigation. | Highly trained, experienced and well equipped. Required skills given. | No separate training module was seen designed for the teams. The existing Forest Officers are deputed to RRT without a separate training. Audit noticed instances in which forest staff and temporary watchers were injured / died during elephant driving operations which could have been reduced with proper training. |

Appendix 7
Details of rent paid for the period from 2019-20 to 2021-22
(Referred to in Paragraph 2.3.4.1, 3rd bullet)

(₹ in lakh)

| Sl. No. | Head of Account | 2019-20 | 2020-21 | 2021-22 | Total |
|---------|---|---------|----------|----------|----------|
| 1 | 2235-Social Security and Welfare | 756.63 | 2,035.46 | 1,633.64 | 4,425.73 |
| 2 | 2014-Administration of Justice | 714.44 | 931.18 | 1,065.63 | 2,711.25 |
| 3 | 2055-Police | 347.10 | 619.07 | 662.55 | 1,628.72 |
| 4 | 2030-Stamps and Registration | 124.54 | 240.35 | 273.02 | 637.91 |
| 5 | 2054-Treasury and Accounts Administration | 133.21 | 299.26 | 130.95 | 563.42 |
| 6 | 2043-Collection Charges Under State Goods and Services Tax | 145.74 | 212.39 | 185.87 | 544.00 |
| 7 | 2230-Labour, Employment and Skill Development | 172.77 | 181.88 | 161.14 | 515.79 |
| 8 | 2051-Public Service Commission | 139.34 | 169.36 | 194.19 | 502.89 |
| 9 | 2039-State Excise | 128.59 | 208.00 | 165.97 | 502.56 |
| 10 | 2204-Sports and Youth Services | 118.82 | 123.63 | 174.95 | 417.40 |
| 11 | 3452-Tourism | 20.88 | 28.11 | 360.58 | 409.57 |
| 12 | 2202-General Education | 134.02 | 142.87 | 99.35 | 376.24 |
| 13 | 2041-Taxes on Vehicles | 100.22 | 163.23 | 108.10 | 371.55 |
| 14 | 2210-Medical and Public Health | 104.11 | 121.24 | 145.37 | 370.72 |
| 15 | 2075-Miscellaneous General Services | 94.34 | 96.40 | 156.87 | 347.61 |
| 16 | 2029-Land Revenue | 88.66 | 130.07 | 125.18 | 343.91 |
| 17 | 2058-Stationery and Printing | 89.65 | 155.04 | 76.01 | 320.70 |
| 18 | 2062-Vigilance | 64.00 | 126.88 | 120.61 | 311.49 |
| 19 | 2045-Other Taxes and Duties on Commodities and Services | 29.72 | 130.27 | 133.70 | 293.69 |
| 20 | 2225-Welfare of Scheduled Castes, Scheduled Tribes, Other Backward Classes and Minorities | 60.58 | 86.46 | 144.76 | 291.80 |

| Sl. No. | Head of Account | 2019-20 | 2020-21 | 2021-22 | Total |
|---------|--|---------|---------|---------|--------|
| 21 | 4408-Capital Outlay on Food, Storage and Warehousing | 89.76 | 107.79 | 57.84 | 255.39 |
| 22 | 2052-Secretariat General Services | 38.32 | 126.02 | 68.09 | 232.43 |
| 23 | 2053-District Administration | 53.71 | 57.14 | 107.09 | 217.94 |
| 24 | 2402-Soil and Water Conservation | 49.73 | 66.13 | 77.40 | 193.26 |
| 25 | 2203-Technical Education | 23.66 | 31.68 | 133.50 | 188.84 |
| 26 | 2425-Cooperation | 71.94 | 68.12 | 43.86 | 183.92 |
| 27 | 3475-Other General Economic Services | 29.77 | 82.18 | 34.85 | 146.80 |
| 28 | 2059-Public Works | 31.74 | 67.43 | 45.55 | 144.72 |
| 29 | 3451-Secretariat Economic Services | 10.20 | 92.83 | 19.53 | 122.56 |
| 30 | 2702-Minor Irrigation | 35.84 | 51.80 | 34.20 | 121.84 |
| 31 | 2056-Jails | 21.29 | 50.43 | 38.67 | 110.39 |
| 32 | 2406-Forestry and Wildlife | 6.83 | 54.96 | 34.77 | 96.56 |
| 33 | 2851-Village and Small Industries | 25.42 | 43.61 | 24.24 | 93.27 |
| 34 | 3454-Census Surveys and Statistics | 27.85 | 28.53 | 28.22 | 84.60 |
| 35 | 3435-Ecology and Environment | 22.07 | 28.12 | 32.87 | 83.06 |
| 36 | 3054-Roads and Bridges | 16.26 | 14.00 | 51.61 | 81.87 |
| 37 | 2205-Art and Culture | 23.42 | 35.11 | 22.93 | 81.46 |
| 38 | 2217-Urban Development | 23.10 | 30.02 | 27.65 | 80.77 |
| 39 | 2515-Other Rural Development Programmes | 33.64 | 20.16 | 25.38 | 79.18 |
| 40 | 3051-Ports and Light Houses | 15.74 | 14.71 | 38.76 | 69.21 |
| 41 | 2701-Medium Irrigation | 23.23 | 24.42 | 17.72 | 65.37 |
| 42 | 2013-Council of Ministers | 11.80 | 10.40 | 30.80 | 53.00 |
| 43 | 2404-Dairy Development | 5.15 | 21.07 | 22.41 | 48.63 |

| Sl. No. | Head of Account | 2019-20 | 2020-21 | 2021-22 | Total |
|---------|---|-----------------|-----------------|-----------------|------------------|
| 44 | 2711-Flood Control and Drainage | 16.98 | 16.17 | 15.09 | 48.24 |
| 45 | 3456-Civil Supplies | 4.67 | 18.45 | 20.90 | 44.02 |
| 46 | 2401-Crop Husbandry | 13.43 | 14.00 | 13.74 | 41.17 |
| 47 | 2040-Taxes on Sales, Trade <i>etc.</i> | 9.91 | 8.95 | 13.18 | 32.04 |
| 48 | 2405-Fisheries | 7.80 | 6.69 | 17.18 | 31.67 |
| 49 | 2011-Parliament/State/Union Territory Legislatures | 0.00 | 25.23 | 5.85 | 31.08 |
| 50 | 2047-Other Fiscal Services | 9.36 | 9.50 | 9.48 | 28.34 |
| 51 | 2403-Animal Husbandry | 9.95 | 7.66 | 3.70 | 21.31 |
| 52 | 2015-Elections | 11.99 | 6.82 | 2.20 | 21.01 |
| 53 | 2700-Major Irrigation | 4.55 | 4.88 | 8.51 | 17.94 |
| 54 | 4700-Capital Outlay on Major Irrigation | 2.81 | 4.24 | 4.77 | 11.82 |
| 55 | 2853-Nonferrous Mining and Metallurgical Industries | 2.27 | 2.91 | 5.37 | 10.55 |
| 56 | 2408-Food, Storage and Warehousing | 10.42 | 0.00 | 0.00 | 10.42 |
| 57 | 3056-Inland Water Transport | 3.15 | 2.81 | 1.83 | 7.79 |
| 58 | 4701-Capital Outlay on Medium Irrigation | 1.55 | 0.00 | 4.25 | 5.80 |
| 59 | 2211-Family Welfare | 0.49 | 2.59 | 0.00 | 3.08 |
| 60 | 2220-Information and Publicity | 0.00 | 2.46 | 0.00 | 2.46 |
| 61 | 4405-Capital Outlay on Fisheries | 0.35 | 0.50 | 0.75 | 1.60 |
| 62 | 2415-Agricultural Research and Education | 0.11 | 0.09 | 0.08 | 0.28 |
| | Total | 4,367.62 | 7,461.76 | 7,263.26 | 19,092.64 |

Appendix 8
Details of works arranged without Hindrance Free land
(Referred to in Paragraph 2.3.4.4)

| Sl. No. | Name of work | Division | Agreement No. & Date | Remarks |
|---------|---|----------|--|---|
| 1 | Construction of gate and compound wall around newly proposed Taluk HQs, Kunnamkulam. | Thrissur | 43/2020-21/SE/BCC/TSR dated 19/01/2021 | The work could not be started for around 10 months due to non-cutting of trees at the site and delay in fixing boundary |
| 2 | Construction of administrative block at Govt. Polytechnic College, Kunnamkulam. | Thrissur | 28/2020-2021/SE/BCC/TSR dated 12/10/2020 | Start of work delayed for 6 months due to non-cutting of trees from the site |
| 3 | Construction of compound wall for the campus of Govt. Medical College, Thrissur | Thrissur | 28/19-20/SE/BCC/TSR dated 01/10/2019 | Work was delayed due to stay order of Honorable High Court |
| 4 | Construction of new building for Govt. UP School, Moorkanikkara. | Thrissur | 22/19-20/SE/BCC/TSR dated 13/6/2019 | First extension was requested as the site was not provided hindrance free |
| 5 | Establishment & modernisation of drug stores under DME, Construction of Central warehouse - Phase II. | Thrissur | 12/19-20/SE/BCC/TSR dated 06/06/2019 | 3 months delay in executing agreement due to hindrance at the site |
| 6 | Construction of compound wall, Science and Arts College, Killimangalam. | Thrissur | 48/2019-20/SE/BCC/TSR dated 26/02/2020 | The work could not start as planned due to delay in fixing the boundary |
| 7 | Construction of new building for Govt. LP School, Kaipamangalam | Thrissur | 69/2019-20/EE/B/TSR dated 04/12/2019 | 10 months delay in executing agreement as the old building at site was not demolished |
| 8 | Construction of new building for Govt. LP School, Thozhupadam | Thrissur | 85/2019-20/EE/B/TSR dated 13/03/2020 | Site Handing Over (SHO) was delayed for six months due to site issues |
| 9 | RIDF XX - Construction of Community Health Centre for Paika Hospital | Kottayam | 52/SEBSC/2016-17 dated 14/02/2017 | SHO was eight months after executing agreement and the hindrances were at site till Nov 2018 |

| Sl. No. | Name of work | Division | Agreement No. & Date | Remarks |
|---------|--|--------------------------------------|---|--|
| 10 | Construction of new block for District PSC Office, Kottayam | Kottayam | 85/SEBSC/2015-16 dated 15/02/2016 | SHO was on 24/10/2016 but non-clearance of old building remained as hindrance |
| 11 | Construction of Architectural Block at RIT, Pampady | Kottayam | 1/SEBSC/2016-17 dated 19/05/2016 | Initial extension of time of 6 months was <i>inter alia</i> due to non-removal of hindrances like HT cable and waterline |
| 12 | Construction of examination hall and research centre at Govt. College, Kottayam | Kottayam | 45/SEBSC/2019 - 20 dated 30/10/2019 | SHO was on 09/10/2020 after one year due to hindrances at site |
| 13 | STDD - Construction of Govt. Tribal UP School, Kosady, Mundakayam | Kottayam | 2/SEBC/2017-18 dated 17/04/2017 | SHO was on 27/09/2017 only due to delay in forest permission and non-clearance of trees |
| 14 | Providing lady by-standers waiting area and toilet facilities at 3 rd floor of Cardiology & Cardiothoracic Block at Govt. Medical College | Kottayam | 25/SEBC/2017-18 dated 07/07/2017 | SHO was on 16/10/2017. The site was not available for work due to hindrances posed by electrical cables |
| 15 | Construction of new building for College of Pharmaceutical Science, Kottayam – Phase II | Kottayam | 06/SEBSC/2019 - 20 dated 28/05/2019 | Tender finalisation was in December 2018, selection notice was issued on 22/02/2019. SHO on 04/06/2019 |
| 16 | Construction of public comfort station near car shed, ABC Block, Medical College, Kottayam | Kottayam | 72/EE/BLDGs/KTM /2018-19 dated 02/02/2019 | SHO was on 15/07/2019 after five months of agreement |
| 17 | Construction of new office complex for accommodating various Commissions, Pattom | Special Buildings Thiruvananthapuram | 78/SEBSC/ 2018-19 dated 14/02/2019 | Hindrance was not removed until May 2019 |
| 18 | New Academic Block - Govt. Engineering College, Barton Hill | Special Buildings Thiruvananthapuram | 25/SEBSC/ 2021-22 dated 11/08/2021 | Hindrance was not removed until November 2021 |
| 19 | ITI - Chakkai - Upgradation of the Institute to International | Special Buildings Thiruvananthapuram | 25/SEBSC/2020-21 dated 19/08/2020 | SHO was on 25/11/2020. The site was not clear for work as the permission from KRFB was not |

| Sl. No. | Name of work | Division | Agreement No. & Date | Remarks |
|---------|---|--------------------------------------|------------------------------------|--|
| | Standards - Workshop renovation, construction of main gate road etc. | | | obtained to connect the entrance to road |
| 20 | Renovation of the Principal's Office of the Govt. Medical College, Thiruvananthapuram | Special Buildings Thiruvananthapuram | 11/SEBSC/2020-21 dated 03/07/2020 | A hindrance free site was not actually handed over on time as the office was not shifted |
| 21 | Construction of School building for Govt. LP School Meenchanda, Kozhikode | Kozhikode | EE(BC)08/2019-20 dt.07/06/2019 | The work was delayed due to delay in demolition of existing building by the corporation |
| 22 | Implementation of Plan Schemes during 2017-18 - Govt. Medical College, Kozhikode - Construction of new examination hall | Kozhikode | SE(K)120/2020-21 dated 21/10/2020 | The delay in shifting of 3 phase electric lines and pipelines were the hindrances at site |
| 23 | USR to indoor basketball court storage room, Govt. Physical Education College, Kozhikode | Kozhikode | EE(BC)2/59/2020-2021 Dt 01/10/2020 | The site could not be handed over on time as the College was operating for rehabilitation of street dwellers |
| 24 | Construction of compound wall and gate for the Govt. Dermatology Hospital, Chevayur, Kozhikode | Kozhikode | SE(K)88/2020-21 dated 09/06/2020 | The site was not handed over on time due to failure in removing trees |
| 25 | Construction of building for VHSE Block at GVHSS for Girls, Nadakkavu, Kozhikode | Kozhikode | SE(K)24/2018-19 dated 16/06/2018 | SHO was delayed for 5 months after signing the agreement due to hindrance at site |
| 26 | Construction of building for Police Station, Kunnamangalam, Kozhikode | Kozhikode | SE(K)70/2018-19 dated 02/03/2019 | SHO was only after 5 months of signing the agreement due to delay in demolition of existing quarters at the site |
| 27 | Higher Education Department - Construction of Academic Block for | Kozhikode | SE(K)62/2019-20 dated 24/12/2019 | SHO was after 2 months of signing the agreement as a building at the site was not demolished |

| Sl. No. | Name of work | Division | Agreement No. & Date | Remarks |
|---------|---|-----------|--------------------------------------|---|
| | SARBTM Govt: College, Koyilandy, Kozhikode District | | | |
| 28 | HSE Construction of Higher Secondary Block for Govt. Sanskrit HSS, Meppayil, Vatakara | Kozhikode | SE(K)62/2016-17 dated 27/02/2017 | The work was delayed due to delay in allotting the site by the school authorities |
| 29 | Construction of Mini Civil Station, Balussery, Kozhikode | Kozhikode | SE (K) 23/2021-22 dated 09/08/2021 | The work was delayed due to non-availability of site from the Revenue Department |
| 30 | NABARD - Assistance RIDF XXI - Infrastructure works in Govt. Taluk Hospital, Vatakara, Kozhikode | Kozhikode | SE(K)44/2019-20 dated 29/10/2019 | As the work was for vertical extension it was delayed due to assessing strength of existing old building |
| 31 | Construction of Model Residential School (MRS) Maruthonkara, Kozhikode | Kozhikode | SE(K)11/2017-18 dated 26/05/2017 | SHO was on 02/06/2017 but work was not started till Nov 2017 due to non-availability of hindrance free land |
| 32 | NABARD - RIDF - XXI - 2015-16 Infrastructure work construction of multipurpose hospital block of District Hospital, Mananthavadi, Wayanad | Wayanad | SE (K) 46/2017-18 dated 07/02/2018 | 17 months delay in clearing the site after SHO due to not dismantling the old building and removal of trees from the site |
| 33 | NABARD - RIDF XXII - 2016-17 Infrastructure works for additional Hospital building in Taluk Hospital, Sulthan Bathery, Wayanad | Wayanad | SE (K) 31/2018-19 dated 21/07/2018 | SHO was on 09/11/2018 as clearance from District Disaster Management Authority was not obtained |
| 34 | Construction of School building of Govt. High School, Kurumbala, Wayanad. | Wayanad | No. EE/B/16/2020-21 Dated 26/08/2020 | SHO of the work was on 04/09/2020, but the site was not cleared by removing trees till 04/10/2021 |

Appendix 9
Details of works involving issues in Investigation, Estimation, Technical Sanction and Tendering
(Referred to in Paragraphs 2.3.4.5, 2.3.6.1, 2.3.6.3)

| Sl. No. | Name of work/Division | Investigation & Estimation issues (Paragraph 2.3.4.5) | Issues related to TS without structural design (Paragraph 2.3.6.1) | Issues related to awarding of work without ensuring competitive bidding (Paragraph 2.3.6.3) |
|---------|---|---|---|--|
| 1 | Construction of multi-storied building for functioning of various Commissions, Pattom, Thiruvananthapuram/Special Buildings, Thiruvananthapuram | The planning, structural drawing, and preparation of estimates was done by a private agency. The BoQ tender included an item for pile foundation. Due to deficiencies in structural designs initially prepared by the agency which necessitated the changes in foundation and structural redesign after awarding the work. | Not applicable | The consultancy contract for the work of Investigation, Structural Design and Estimation of the Project was awarded to M/s Safe Matrix Pvt. Ltd. based on a single quotation for ₹27 lakh without executing agreement. |
| 2 | Higher Education - Technical - Rajiv Gandhi Institute of Technology, Kottayam - Construction of building for Architecture Block, Kottayam | As the investigation was not proper, excess quantity of 253 m ³ hard rock were found to be removed owing to actual site conditions through chemical blasting during execution of work which necessitated in issue of revised AS (February 2019) and TS (February 2020) for ₹13.83 crore and ₹13.77 crore respectively. The change in scope post award of work resulted in excess expenditure to the tune of ₹1.63 crore. | Not applicable | Not applicable |
| 3 | Home Department Judiciary - Construction of Court complex, Irinjalakuda, Thrissur | The soil investigation for the above work was entrusted to a private agency. The investigation by the agency could not reveal the presence of hard rock at shallow depths during investigation which resulted in extensive revision of foundation design and consequent delay in execution. | Not applicable | Not applicable |

| Sl. No. | Name of work/Division | Investigation & Estimation issues (Paragraph 2.3.4.5) | Issues related to TS without structural design (Paragraph 2.3.6.1) | Issues related to awarding of work without ensuring competitive bidding (Paragraph 2.3.6.3) |
|---------|--|--|---|---|
| 4 | Construction of first and second floor for 450 bedded Hostel for Ladies at Govt. Medical College, Kottayam/ Kottayam | Due to lack of effective site investigation, construction of retaining wall costing ₹80 lakh and reduction of scope of work viz., exclusion of toilet block and 6 rooms from the original plan was necessitated. | Not applicable | Not applicable |
| 5 | Construction of Model Residential School, Maruthonkara, Kozhikode/ Kozhikode | As the private agency which conducted the site investigation could not reveal the unsuitability of the location, number of quarters to be constructed was reduced from three to two by saving ₹100 lakh during execution of the work. Moreover, additional amount of ₹35 lakh was to be spent due to increasing depth of the column upto four meters and construction of additional diaphragm walls. | Not applicable | The TS was for constructing academic, administrative blocks, quarters, and other buildings without internal roads, at a cost of ₹19.75 crore. During execution, one out of three residential quarters costing ₹one crore was not taken up and instead, additional work of construction of internal road costing ₹65.30 lakh was entrusted to the same contractor without inviting fresh tender. |
| 6 | Construction of male and female ward to Gandhigram Hospital of Dermatology, Koratty, Thrissur/ Thrissur | The project was to construct two in-patient blocks as male and female wards. Due to poor investigation by PWD, the level difference of 2 meters on land, proposed for male ward, was not identified during planning stage leading to extra earth and foundation works during execution of the work. | TS was issued prior to obtaining the design resulting in cost escalation amounting to ₹81 lakh for concrete and reinforcement alone post award of work. | Not applicable |

| Sl. No. | Name of work/Division | Investigation & Estimation issues (Paragraph 2.3.4.5) | Issues related to TS without structural design (Paragraph 2.3.6.1) | Issues related to awarding of work without ensuring competitive bidding (Paragraph 2.3.6.3) |
|---------|---|---|---|--|
| 7 | Construction of Golden Jubilee PG Block at Govt. Arts and Science College, Kozhikode/Kozhikode | Not applicable | TS for this work was issued for ₹12 crore before finalising the structural design in which the pile foundation was provided for 200 numbers of piles of 500mm diameter. In the structural design, the diameter of pile was 500mm, 600mm and 700mm totaling to 240 numbers. Additional expenditure in this regard amounted to ₹53.16 lakh. | AS for the work was for ₹12 crore for constructing 3 storied building (G+2), and the work was awarded to M/s ULCCS Ltd., at their quoted rates based on tender. The scope of the work was later increased to five storied building with a revised (June 2019) cost of ₹19 crore. Department entrusted the additional work to the same contractor which tantamount to awarding of work costing ₹7 crore by waiving tender call. |
| 8 | NABARD RIDF XXI construction of multipurpose hospital block at District Hospital, Mananthavady, Wayanad/ Wayanad | Not applicable | Contract value of civil work was ₹30.75 crore. During execution the cost of work was enhanced due to changes in design approved by DRIQ board and site-specific issues post award of work resulting in increase of cost (₹32.92 crore) by ₹2.18 crore. | Not applicable |
| 9 | District Jail, Mananthavady, construction of Superintendent quarters, Staff quarters & Rest room for staff, Wayanad | The estimate and TS were for single storied load bearing structure. But during excavation, the soil strata was found to be weak, and the structure was converted into RCC. This indicates poor soil investigation before starting the work. | Not applicable | Not applicable |
| 10 | Govt. Taluk Hospital, Vatakara, Kozhikode | Not applicable | Not applicable | The work was retendered (19 January 2019) with bid opening date on 23 January 2019. But |

| Sl. No. | Name of work/Division | Investigation & Estimation issues (Paragraph 2.3.4.5) | Issues related to TS without structural design (Paragraph 2.3.6.1) | Issues related to awarding of work without ensuring competitive bidding (Paragraph 2.3.6.3) |
|---------|---|--|---|--|
| | | | | without opening bid, the Govt. entrusted the work to the accredited agency M/S ULCCS Ltd. at the estimated cost of ₹12.87 crore. |
| 11 | Urgent maintenance works for manufacturing unit at Central Prison, Thrissur/ Thrissur | Not applicable | Not applicable | The work e-tendered twice but awarded on quotation basis since bids on e-tender was above EPAC. Major components in the BoQ were changed post award to include GI and poly carb sheets for roofing as against wood and MP tiles originally provided. Even though the scope of work had changed substantially, no fresh tenders were invited to ensure competitive bidding. |
| 12 | NABARD RIDF XXII, Infrastructure works for additional hospital building in Taluk Hospital Sultthan Bathery, Wayanad / Wayanad | Not applicable | Not applicable | EPAC and APAC for the work were ₹18.84 crore and ₹14.96 crore respectively. Post awarding of the work, additional work costing ₹3.88 crore was entrusted to the same contractor for constructing retaining wall, electrical room, compound wall, landscaping and power laundry (EPAC-APAC) without ensuring competitive bidding. |

Appendix 10
Details of Security Deposits not collected/short collected/expired Bank Guarantees
(Referred to in Paragraph 2.3.5.3)

(₹ in lakh)

| Sl. No. | Name of the Circle/Division | Name of the work | Security Deposit to be collected | Security Deposit collected | Non/short collection of Security Deposit | Remarks |
|-----------------------------------|-----------------------------|--|----------------------------------|----------------------------|--|------------------------|
| PG/APG Not/Short collected | | | | | | |
| 1 | Central Circle/ Thrissur | Establishment & modernisation of drug stores under DME - Construction of Central Warehouse - Phase II, Govt. GMC - TCR - Medical College, Thrissur | 6.73 | 0.00 | 6.73 | Non collection of APG |
| 2 | South Circle/Kottayam | Higher Education - Technical - Rajiv Gandhi Institute of Technology, Kottayam - Construction of building for Architecture Block | 58.47 | 5.18 | 53.29 | Short collection of PG |
| 3 | South Circle/Kottayam | Higher Education - Technical - Rajiv Gandhi Institute of Technology, Kottayam - Construction of building for Architecture Block | 36.17 | 0.00 | 36.17 | Non collection of APG |
| 4 | North Circle/Wayanad | NABARD-RIDF-XXI (2015-16) Construction of multipurpose hospital block at District Hospital, Mananthavady, Wayanad | 132.10 | 0.00 | 132.10 | Non collection of APG |
| Total | | | | | 228.29 | |

| Extension of ToC without extending PG | | | | | | |
|--|-----------------------------|---|-------|-------|------|-----------------|
| 1 | North Circle / Wayanad | Construction of new building for Mechanical and Electrical Dept. in Govt. Engineering College, Thalappuzha, Wayanad | 12.87 | 12.87 | 0.00 | PG not extended |
| 2 | North Circle / Wayanad | NABARD-RIDF-XXI (2015-16) Construction of multipurpose hospital block, District Hospital, Mananthavady | 76.86 | 76.86 | 0.00 | PG not extended |
| 3 | North Circle / Kozhikode | Construction of flat type residential complex for Non-Gazetted Officers of Govt. Medical College, Kozhikode | 52.87 | 52.87 | 0.00 | PG not extended |
| 4 | North Circle / Kozhikode | Construction of Academic Block for SARBTM Govt. College, Koyilandi | 13.68 | 13.68 | 0.00 | PG not extended |

| | | | | | | |
|--------------|---|--|---------------|---------------|-------------|-----------------|
| 5 | North Circle/ Kozhikode | Construction of Women's Hostel for CKGM College, Perambra | 2.72 | 2.72 | 0.00 | PG not extended |
| 6 | Central Circle / Thrissur | Construction of new building for Govt. High School, Kattoor, Irinjalakuda | 2.03 | 2.03 | 0.00 | PG not extended |
| 7 | Central Circle / Thrissur | Construction of compound wall, Science and Arts College, Killimangalam | 2.57 | 2.57 | 0.00 | PG not extended |
| 8 | Central Circle / Thrissur | Construction of Student Utility Centre at Govt. Polytechnic College, Nedupuzha, Thrissur | 4.57 | 4.57 | 0.00 | PG not extended |
| 9 | Central Circle / Thrissur | Construction of W&C wards at General Hospital, Thrissur - Phase II | 14.14 | 14.14 | 0.00 | PG not extended |
| 10 | Central Circle / Thrissur | Providing additional facilities to Panampilly College, Chalakudy | 5.07 | 5.07 | 0.00 | PG not extended |
| 11 | South Circle/ Special Buildings, Thiruvananthapuram | Construction of 50 bedded ward and administrative block at PHC, Vamanapuram | 14.16 | 14.16 | 0.00 | PG not extended |
| 12 | South Circle/ Special Buildings, Thiruvananthapuram | ITI - Chakkai - Upgradation of the Institute to International Standards | 7.06 | 7.06 | 0.00 | PG not extended |
| 13 | South Circle/ Kottayam | Construction of Govt. Tribal UP School, Kosady, Mundakkayam | 5.18 | 5.18 | 0.00 | PG not extended |
| 14 | South Circle/ Special Buildings, Thiruvananthapuram | Building for accommodating Various Commissions, Pattom | 82.04 | 82.04 | 0.00 | PG not extended |
| Total | | | 295.82 | 295.82 | 0.00 | |

| Extension of ToC without extending APG | | | | | | |
|---|--------------------|--|---------------|---------------|-------------|------------------|
| 1 | Wayanad | Construction of new building for Mechanical and Electrical Dept. in Govt. Engineering College Thalappuzha, Wayanad | 22.30 | 22.30 | 0.00 | APG not extended |
| 2 | Kozhikode | Construction of flat type residential complex for Non-Gazetted officers, Govt. Medical College, Kozhikode | 300.42 | 300.42 | 0.00 | APG not extended |
| 3 | Kozhikode | Construction of Academic Block for SARBTM Govt. College, Koyilandy | 15.40 | 15.40 | 0.00 | APG not extended |
| 4 | Kozhikode | Construction of Women's Hostel for CKGM College, Perambra | 12.26 | 12.26 | 0.00 | APG not extended |
| 5 | Thiruvananthapuram | Construction of examination hall and research centre at Govt. College, Kottayam | 0.835 | 0.835 | 0.00 | APG not extended |
| Total | | | 351.21 | 351.21 | 0.00 | |

| BG released prior to completion of DLP | | | | | | |
|---|--------------------------|--|--------------|--------------|-------------|--|
| 1 | North Circle / Kozhikode | Construction of Academic Block for SARBTM Govt. College, Koyilandi | 90.74 | 90.74 | 0.00 | PG released prior to completion of DLP |
| Total | | | 90.74 | 90.74 | 0.00 | |

| Details of BG expired | | | |
|------------------------------|------------------------|---|---------------------------|
| Sl. No. | Building Circle | Name of Work | Amount (₹ in lakh) |
| 1 | South | Construction of new block for District Public Service Commission Office - Kottayam | 6.50 |
| 2 | North | General Education Department Annual Plan 2020-21- Construction of school building, Govt. Higher Secondary School, Munderi, Kannur | 2.69 |
| 3 | North | Govt. College, Kodanchery - Plan fund 2017 - 18 Centre of Excellence - Construction of new and modern library building in the College | 12.75 |
| 4 | North | Construction of additional block building to Ladies Hostel in Govt. College, Chittur, Palakkad. | 14.99 |
| 5 | South | Construction of a building for Pilgrim Centre at Ittiyappara, Ranni (Phase I) | 128.86 |
| Total | | | 165.79 |

Appendix 11
Details of Risk and Cost not realized/not assessed
(Referred to in Paragraph 2.3.5.4)

| Sl. No. | Division | Name of work | Foreclosed date | R&C amount to be collected (in ₹) | LD to be collected (in ₹) |
|--------------|----------------|---|-----------------|-----------------------------------|---------------------------|
| 1 | Kollam | Construction of new building, Govt. Rest House, Kundara | 09/12/2020 | 55,60,816 | 0 |
| 2 | Kottayam | Construction of new block, District Public Service Commission | 07/05/2018 | 53,76,017 | 0 |
| 3 | Thrissur | Construction of Registration Complex, Thrissur | 24/05/2014 | 1,52,72,073 | 0 |
| 4 | Idukki | Construction of D block Civil Station, Idukki | 13/06/2007 | 62,93,395 | 0 |
| 5 | Ernakulam | Construction of mega office complex under Taxes Department, Ernakulam | 28/05/2014 | 2,15,23,289 | 0 |
| 6 | Kannur | General Education Department Annual Plan 2020-21, Construction of School building, GHSS, Munderi, Kannur | 28/05/2021 | 31,65,589 | 11,83,165 |
| 7 | Kozhikode | Govt. College, Kodencherry - Plan fund 2017-18 - Centre for excellence - Construction of new and modern library | 19/02/2021 | 73,32,002 | 20,82,333 |
| 8 | Palakkad | Construction of additional block building to Ladies Hostel, Govt. College, Chittur | 06/04/2022 | 1,38,41,255 | 46,13,751 |
| 9 | Idukki | Construction of additional Judicial Complex, Kattappana | 09/12/2019 | 87,24,374 | 29,73,550 |
| 10 | Ernakulam | Construction of Mini Civil Station Phase II, Aluva | 28/04/2022 | Not assessed | N.A. |
| 11 | Pathanamthitta | Construction of a building for Pilgrim Centre at Ittiyappara, Ranni | 24/05/2019 | Not assessed | N.A. |
| 12 | Kollam | Construction of new building for FWC, Kilikollur | 13/10/2022 | Not assessed | N.A. |
| 13 | Kollam | Maintenance work of buildings of Kuttalam Palace and construction of reception block | 18/11/2021 | Not assessed | N.A. |
| Total | | | | 8,70,88,810 | 1,08,52,799 |

Appendix 12
Details of delay in execution of works
(Referred to in Paragraph 2.3.6.2)

| Sl. No. | Name of the work | Time of Completion in months / Upto | Date of Completion/ Extensions | Present status | APAC | Delay in months | Date of Site Handing Over | Delay in percentage |
|---------|---|-------------------------------------|--------------------------------|----------------|--------------|-----------------|---------------------------|---------------------|
| 1 | Urgent repairs and maintenance work at Kerala House, Mumbai | 06 Months 08/09/2020 | 28/05/2022 | Completed | 2,72,59,337 | 20 | 09/03/2020 | 333 |
| 2 | Construction of compound wall to Science and Arts College, Killimangalam, Thrissur | 06 Months 05/09/2020 | 25/01/2022 | Completed | 1,02,75,582 | 17 | 06/03/2020 | 283 |
| 3 | Construction of Architectural Block at RIT, Pampady, Kottayam | 24 Months 30/05/2018 | 31/07/2022 | Ongoing | 11,69,48,494 | 50 | 31/05/2016 | 208 |
| 4 | Construction of Golden Jubilee P.G. Block - Govt. Arts & Science College, Kozhikode | 24 Months 08/05/2019 | 30/09/2022 | Completed | 10,00,57,295 | 41 | 09/05/2017 | 171 |
| 5 | Providing global category Synthetic Surface at Paravattani Stadium football court, Thrissur | 06 Months 01/09/2021 | 16/07/2022 | Ongoing | 89,23,776 | 10 | 02/03/2021 | 167 |
| 6 | NABARD - RIDF XXII – 2016-17 Infrastructure works for additional hospital building at Taluk Hospital, Sulthan Bathery, Wayanad | 18 Months 08/05/2020 | 30/09/2022 | Ongoing | 14,96,00,804 | 29 | 09/11/2018 | 161 |
| 7 | Construction of retaining wall and compound wall in Govt. Polytechnic College, Pala | 18 Months 22/06/2021 | 22/07/2022 | Ongoing | 2,12,22,440 | 13 | 23/12/2019 | 72 |
| 8 | Painting works to Obstetrics' & Gynaecology Block, Medical College, Kottayam | 06 Months 06/07/2019 | 07/03/2020 | Completed | 45,44,569 | 8 | 07/01/2019 | 133 |
| 9 | Improvement works of ICU in Institute of Chest Diseases - Construction of Post Operative ICU and checkup facilities for Anesthesia Department, Improvement of drainage facilities in MCH and Converting the Hydrophobia Cell near Ward 2 to TMT Room and Procedure Room for Medicine Department, Medical College, Kozhikode | 12 Months 11/05/2021 | 30/04/2022 | Completed | 1,79,75,114 | 12 | 06/01/2020 | 100 |
| 10 | Construction of examination hall cum auditorium and library complex, Nursing College - Phase II, Kottayam | 18 Months 09/10/2019 | 30/08/2021 | Completed | 3,47,05,064 | 23 | 10/04/2018 | 128 |
| 11 | Construction of building for PHC Kottur under the scheme 'Setting up of laboratories in PHCs, Kozhikode | 12 Months 21/05/2019 | 17/08/2020 | Completed | 1,51,36,340 | 15 | 22/05/2018 | 125 |
| 12 | Kitchen blocks in various Aided Schools, Kaipamangalam, Thrissur | 12 Months 11/03/2021 | 15/05/2022 | Ongoing | 82,91,067 | 14 | 12/03/2020 | 117 |

| Sl. No. | Name of the work | Time of Completion in months / Upto | Date of Completion/ Extensions | Present status | APAC | Delay in months | Date of Site Handing Over | Delay in percentage |
|---------|---|-------------------------------------|--------------------------------|----------------|--------------|-----------------|---------------------------|---------------------|
| 13 | Construction of a new block for PWD Rest House, Erumely, Pathanamthitta | 09 Months 24/06/2020 | 24/03/2021 | Completed | 1,30,80,730 | 9 | 25/09/2019 | 100 |
| 14 | Construction of public comfort station near car shed in front of ABC Block, Medical College, Kottayam | 06 Months 14/01/2020 | 29/07/2020 | Completed | 65,66,693 | 6 | 15/7/2019 | 100 |
| 15 | Renovation of the Principal's Office of the Govt. Medical College, Thiruvananthapuram | 09 Months 01/08/2021 | 01/05/2022 | Ongoing | 67,02,448 | 9 | 02/11/2020 | 100 |
| 16 | NABARD - RIDF - XXI - 2015-16 Infrastructure work construction of multipurpose hospital block of District Hospital, Mananthavadi, Wayanad | 24 Months 13/02/2020 | 31/05/2022 | Ongoing | 30,74,48,596 | 27 | 14/02/2018 | 112 |
| 17 | Construction of Hospital building at Govt. Homeo Medical College, Kozhikode | 18 Months 07/12/2017 | 07/05/2019 | Completed | 11,24,73,252 | 17 | 08/06/2016 | 94 |
| 18 | Construction of MBBS Ladies Hostel - Phase II, Govt. Medical College, Thrissur | 12 Months 16/01/2021 | 31/12/2021 | Ongoing | 2,12,18,522 | 11 | 17/01/2020 | 92 |
| 19 | Construction of School Building, Govt. High School Kurumbala, Wayanad. | 12 Months 03/09/2021 | 31/07/2022 | Ongoing | 78,13,411 | 11 | 04/09/2020 | 92 |
| 20 | Construction of School Building, Govt. UP School, Chennalode, Wayanad | 12 Months 14/01/2022 | 12/12/2022 | Ongoing | 74,29,029 | 11 | 15/01/2021 | 92 |
| 21 | NABARD - Assistance RIDF XXI - Infrastructure works in Govt. Taluk Hospital, Vatakara, Kozhikode | 18 Months 03/05/2021 | 31/08/2022 | Ongoing | 6,53,13,440 | 16 | 04/11/2019 | 89 |
| 22 | Construction of Model Residential School (MRS) Maruthonkara, Kozhikode | 18 Months 01/12/2018 | 26/02/2020 | Completed | 13,93,75,539 | 15 | 02/06/2017 | 83 |
| 23 | Construction of new School building, Edanadu LP School, Karoor, Kottayam | 12 Months 22/10/2021 | 01/09/2022 | Ongoing | 99,83,906 | 10 | 23/10/2020 | 83 |
| 24 | Upgradation of the Institute to International Standards - Workshop renovation, Construction of main gate road etc., ITI - Chakkai, Thiruvananthapuram | 12 Months 24/11/2021 | 30/09/2022 | Ongoing | 2,82,38,352 | 10 | 25/11/2020 | 83 |
| 25 | Renovation & Extension of computer block, main building & Construction of toilet block, Govt. Women's Polytechnic College, Nedupuzha, Thrissur | 12 Months 18/03/2021 | 17/12/2021 | Completed | 1,36,49,723 | 9 | 19/03/2020 | 75 |
| 26 | Urgent maintenance and repairing work to the main building roof at Govt. Women's Polytechnic College Nedupuzha, Thrissur | 12 Months 16/02/2021 | 15/11/2021 | Completed | 1,05,00,000 | 9 | 17/02/2020 | 75 |

| Sl. No. | Name of the work | Time of Completion in months / Upto | Date of Completion/ Extensions | Present status | APAC | Delay in months | Date of Site Handing Over | Delay in percentage |
|---------|--|-------------------------------------|--------------------------------|----------------|--------------|-----------------|---------------------------|---------------------|
| 27 | LAC- ADS - 2017-18 - Construction of a building, GLP School, Anayamkunnu, Kozhikode | 12 Months 05/11/2021 | 05/08/2022 | Completed | 1,29,22,650 | 9 | 06/11/2020 | 75 |
| 28 | Construction of additional block, Dental College, Kozhikode | 12 Months 19/12/2019 | 18/09/2020 | Completed | 3,65,59,196 | 9 | 20/12/2018 | 75 |
| 29 | Construction of Naval Training Centre and cadets' accommodation block for ladies & boys at 1 Kerala Naval NCC at Akulam, Thiruvananthapuram | 15 Months 22/12/2021 | 24/11/2022 | Ongoing | 8,55,38,037 | 11 | 23/09/2020 | 73 |
| 30 | Construction of building at Block Primary Health Centre, Vamanapuram, Thiruvananthapuram | 18 Months 31/01/2021 | 28/02/2022 | Ongoing | 5,66,42,931 | 13 | 01/08/2019 | 72 |
| 31 | Construction of compound wall, Govt. Medical College, Thrissur | 18 Months 09/04/2021 | 31/05/2022 | Ongoing | 2,41,03,790 | 14 | 10/10/2019 | 78 |
| 32 | RIDF XX - Construction of Community Health Centre for Paika Hospital, Kottayam | 24 Months 19/10/2019 | 31/03/2021 | Completed | 14,67,19,930 | 17 | 20/10/2017 | 71 |
| 33 | Gender Budget 2015-16 - Providing lady by-standers waiting area and toilet facilities at 3rd Floor of Cardiology & Cardiothoracic Block at Govt. Medical College, Kottayam | 10 Months 15/08/2018 | 08/04/2019 | Completed | 1,21,24,799 | 7 | 16/10/2017 | 70 |
| 34 | Annual plan scheme - Modernisation of prisons - 2017-2018 - Construction of Superintendent quarters, Staff quarters and Rest room for staff, District Jail, Mananthavady | 20 Months 11/12/2019 | 05/02/2021 | Completed | 1,54,79,288 | 14 | 12/04/2018 | 70 |
| 35 | Vertical extension to be existing building for Labour Room and Operation Theatre of Chelakkara Hospital - Phase I, Thrissur | 10 Months 13/11/2021 | 30/06/2022 | Ongoing | 96,83,139 | 7 | 14/01/2021 | 70 |
| 36 | Construction of new building for Govt. School, Chengalloor, Thrissur | 12 Months 03/02/2021 | 12/10/2021 | Completed | 1,28,52,052 | 8 | 04/02/2020 | 67 |
| 37 | Establishment & modernisation of drug stores under DME - Construction of central warehouse - Phase II, Govt. Medical College, Thrissur | 12 Months 02/07/2020 | 15/03/2021 | Ongoing | 1,45,92,574 | 8 | 03/07/2019 | 67 |
| 38 | Construction of Academic Block for SARBTM Govt. College, Koyilandy, Kozhikode | 18 Months 24/08/2021 | 21/07/2022 | Ongoing | 5,47,24,658 | 11 | 25/02/2020 | 61 |
| 39 | USR to indoor basketball court storage room - Govt. Physical Education College, Kozhikode | 10 Months 02/10/2021 | 30/03/2022 | Completed | 53,16,880 | 6 | 03/12/2020 | 60 |

| Sl. No. | Name of the work | Time of Completion in months / Upto | Date of Completion/ Extensions | Present status | APAC | Delay in months | Date of Site Handing Over | Delay in percentage |
|---------|--|-------------------------------------|--------------------------------|----------------|--------------|-----------------|---------------------------|---------------------|
| 40 | Construction of compound wall and gate, Govt. Dermatology Hospital Chevayur, Kozhikode | 10 Months 15/12/2021 | 30/06/2022 | Ongoing | 93,62,179 | 6 | 16/02/2021 | 60 |
| 41 | Construction of administrative block 1st and 2nd floor, Govt. College, Kottayam | 12 Months 10/11/2021 | 30/06/2022 | Ongoing | 1,70,53,936 | 8 | 11/11/2020 | 67 |
| 42 | RIDF-XXII (2016-17) Infrastructure work in Taluk Hospital (Phase I) Vaikom, Kottayam | 18 Months 13/02/2020 | 11/12/2020 | Completed | 11,61,60,948 | 10 | 14/08/2018 | 56 |
| 43 | Construction of Govt. Tribal UP School, Kosady, Mundakayam, Kottayam | 18 Months 26/03/2019 | 15/02/2020 | Completed | 2,07,03,550 | 10 | 27/09/2017 | 56 |
| 44 | Construction of School building, Govt LP School Meenchanda, Kozhikode | 09 Months 24/06/2020 | 03/11/2020 | Completed | 78,80,021 | 5 | 25/09/2019 | 56 |
| 45 | Construction of new office complex for accommodating various Commissions, Pattom, Thiruvananthapuram | 30 Months 07/09/2021 | 31/12/2022 | Ongoing | 32,81,66,604 | 16 | 08/03/2019 | 53 |
| 46 | Construction of new building for LP School, Chettiparambu, Irinjalakuda, Thrissur. | 20 months 08/03/2021 | 06/11/2021 | Completed | 2,11,05,690 | 8 | 09/07/2019 | 40 |
| 47 | Providing additional facilities to Panampilly College, Chalakudy. | 12 months 16/07/2021 | 12/10/2021 | Completed | 2,02,83,346 | 3 | 17/07/2020 | 25 |
| 48 | Construction of Student Utility Centre at Govt. Polytechnic College, Nedupuzha, Thrissur | 18 months 04/08/2021 | 19/02/2022 | Completed | 1,60,99,815 | 6 | 15/02/2020 | 33 |
| 49 | Budget Work 2017-18 - additional work required for the completion of Taluk Head Quarters Hospital, Kodungallur | 16 months 05/04/2021 | 27/07/2021 | Completed | 79,82,216 | 3 | 06/12/2019 | 19 |
| 50 | Construction of new building for Govt. LP School Thozhupadam, Chelakkara LA Constituency | 8 months 23/05/2021 | 13/10/2021 | Completed | 69,78,247 | 5 | 24/09/2020 | 63 |
| 51 | Construction of new building for Govt. LP School, Kaipamangalam | 12 months 11/12/2020 | 10/06/2021 | Completed | 59,62,166 | 6 | 12/12/2019 | 50 |
| 52 | Construction of Gazetted Officers quarters in Govt. Engineering College, Mananthavady | 24 months 27/05/2018 | 21/05/2019 | Completed | 10,37,10,288 | 12 | 28/05/2016 | 50 |
| 53 | Health & FWD - Annual Plan - 2016-17 - Construction of Nursing School and Hostel - Phase - II in District Hospital, Mananthavady | 15 months 25/11/2020 | 20/01/2021 | Completed | 1,57,27,190 | 2 | 26/08/2019 | 13 |
| 54 | Construction of Mechanical Production Lab, - Phase II at Govt. Engineering College, Kozhikode | 18 months 09/01/2022 | 30/05/2022 | Completed | 1,18,78,237 | 4 | 10/07/2020 | 22 |

| Sl. No. | Name of the work | Time of Completion in months / Upto | Date of Completion/ Extensions | Present status | APAC | Delay in months | Date of Site Handing Over | Delay in percentage |
|---------|---|-------------------------------------|--------------------------------|----------------|--------------|-----------------|---------------------------|---------------------|
| 55 | HSE Construction of Higher Secondary Block for Govt. Sanskrit HSS, Meppayil, Vatakara | 15 months 06/06/2018 | 29/08/2018 | Completed | 1,24,90,773 | 2 | 07/03/2017 | 13 |
| 56 | UGC Scheme - Construction of Women's Hostel for CKGM College, Perambra in Koyilandy Taluk, Kozhikode | 18 months 04/11/2019 | 26/02/2020 | Completed | 1,08,84,317 | 4 | 05/05/2018 | 22 |
| 57 | Construction of building for Police Station at Kunnamangalam, Kozhikode | 9 months 19/05/2020 | 24/09/2020 | Completed | 1,20,13,948 | 4 | 20/08/2019 | 44 |
| 58 | Annual Plan 2017-18 - Construction of building for VHSE Block at GVHSS for Girls, Nadakkavu, Kozhikode | 12 months 29/11/2019 | 27/02/2020 | Completed | 73,94,189 | 3 | 30/11/2018 | 25 |
| 59 | NABARD - RIDF XXIII- Construction of additional infrastructure works for Govt. Girls Higher Secondary School, Parayanchery, Feroke, Kozhikode | 16 months 09/10/2021 | 19/03/2022 | Completed | 1,79,84,214 | 5 | 10/06/2020 | 31 |
| 60 | Perambra Constituency- Construction of entrance block, Terrace floor for existing HSS block and staircase for HS block for Avala Higher Secondary School, Kozhikode | 12 months 23/05/2020 | 21/11/2020 | Completed | 1,19,81,523 | 6 | 24/05/2019 | 50 |
| 61 | Construction of flat type residential complex for Non-Gazetted Officers, Govt. Medical College, Kozhikode | 36 months 01/11/2020 | 21/11/2022 | Completed | 21,14,72,198 | 24 | 02/11/2017 | 67 |
| 62 | Medical Education Service - Construction of flat type residential complex for Gazetted officers, Medical College, Kozhikode | 30 months 14/02/2020 | 25/02/2021 | Completed | 11,48,86,651 | 12 | 15/08/2017 | 40 |
| 63 | Construction of new building for Govt. LPBS, Kidangoor | 12 months 06/03/2020 | 27/05/2020 | Completed | 80,05,514 | 3 | 07/03/2019 | 25 |
| 64 | Construction of examination hall and research Centre at Govt. College, Kottayam | 12 months 08/10/2021 | 08/03/2022 | Ongoing | 1,59,04,601 | 5 | 09/10/2020 | 42 |
| 65 | NABARD - Construction of new building for Kunnumbhagam GHS, Kanjirappally | 12 months 24/07/2022 | 31/12/2022 | Ongoing | 1,57,63,820 | 5 | 25/07/2021 | 42 |
| 66 | Construction of new building for SKV Govt. HSS, Neendoor | 12 months 22/10/2022 | | Ongoing | 1,69,45,749 | 2 | 23/10/2021 | 17 |
| 67 | Annual Plan - 2018- 19 - Construction of new building for Govt. Harijan Welfare LPS, Nerekadavu, Vaikom | 12 months 12/07/2022 | | Ongoing | 1,10,80,945 | 5 | 13/07/2021 | 42 |

| Sl. No. | Name of the work | Time of Completion in months / Upto | Date of Completion/ Extensions | Present status | APAC | Delay in months | Date of Site Handing Over | Delay in percentage |
|---------|--|-------------------------------------|--------------------------------|----------------|--------------|-----------------|---------------------------|---------------------|
| 68 | Construction of new building - Phase II for College of Pharmaceutical Sciences, Kottayam | 24 months 03/06/2021 | 30/04/2022 | Ongoing | 11,06,22,985 | 11 | 04/06/2019 | 46 |
| 69 | NABARD RIDF XXIII - Infrastructure Works - Construction of new building at G H S Perambra plantation in Kozhikode - Construction of new building at Govt. UP School (Upgraded as GHS) Perambra plantation, Kozhikode | 10 months 01/08/2022 | | Ongoing | 1,52,17,994 | 4 | 02/10/2021 | 40 |
| 70 | MLA-ADS 2019-20 - Infrastructure development for Kizhapparayar FHC, Meenachil, Panchayath | 09 months 09/07/2022 | 30/11/2022 | Ongoing | 82,86,223 | 6 | 10/10/2021 | 67 |
| 71 | Construction of five storied building for Vigilance Bureau office, Phase I, Muttathara, Thiruvananthapuram | 18 months 12/04/2022 | 30/10/2022 | Ongoing | 8,86,12,746 | 7 | 13/10/2020 | 39 |
| 72 | Renovation of the road from RCC Jn. to Principal Office front and formation of road from Manjadi road to Principal Office back - Govt. Medical College, Thiruvananthapuram | 3 months 04/07/2022 | | Ongoing | 97,23,255 | 6 | 05/04/2022 | 200 |
| 73 | Construction of Court Complex, Irinjalakuda | 30 months 31/07/2021 | 30/03/2022 | Ongoing | 26,89,00,000 | 8 | 01/02/2019 | 27 |
| 74 | Construction of W&C wards - Phase II, General Hospital, Thrissur | 20 months/ 12/03/2021 | 12/01/2022 | Ongoing | 5,65,53,759 | 10 | 13/07/2019 | 50 |
| 75 | Annual Plan (2018-19) Construction of administrative block, Govt. Polytechnic College, Kunnankulam | 18 months 01/05/2022 | 01/09/2022 | Ongoing | 3,22,00,000 | 4 | 02/11/2020 | 22 |
| 76 | Construction of new building, Govt. Upper Primary School, Moorkanikkara | 18 months 07/02/2021 | 21/06/2021 | Ongoing | 1,68,56,667 | 4 | 08/08/2019 | 22 |
| 77 | Construction of building for District Public Health Lab, Thrissur | 17 months 13/12/2021 | 31/07/2022 | Ongoing | 1,49,73,720 | 8 | 14/07/2020 | 47 |
| 78 | Construction of new building for GHS School, Kattoor, Irinjalakuda | 18 months 07/08/2022 | | Ongoing | 1,35,48,763 | 5 | 08/02/2021 | 28 |
| 79 | Construction of school building of Govt. LP School, Erumapetty, Kunnankulam, Thrissur | 18 months 14/11/2022 | | Ongoing | 79,94,399 | 1 | 15/05/2021 | 6 |
| 80 | Construction of new building for Mechanical and Electrical Dept. Govt. Engineering College, Thalapuzha | 18 months 20/07/2021 | 04/09/2022 | Ongoing | 5,14,54,314 | 13 | 21/01/2020 | 72 |

| Sl. No. | Name of the work | Time of Completion in months / Upto | Date of Completion/ Extensions | Present status | APAC | Delay in months | Date of Site Handing Over | Delay in percentage |
|---------|--|-------------------------------------|--------------------------------|----------------|-------------|-----------------|---------------------------|---------------------|
| 81 | NABARD – RIDF - XXIII- Infrastructure works for School under RMSA - GHS Beenachi, Wayanad | 18 months 24/08/2022 | | Ongoing | 1,62,36,156 | 4 | 25/02/2021 | 22 |
| 82 | Annual Plan - 2019-20 - Construction of school building of Govt. HS School, Meppadi, Wayanad | 15 months 07/11/2022 | | Ongoing | 1,05,67,125 | 2 | 08/08/2021 | 13 |
| 83 | Construction of new building for Govt. ITI (SCDD), Elathur, Kozhikode | 18 months 23/03/2022 | 22/07/2022 | Ongoing | 2,29,62,066 | 4 | 24/09/2020 | 22 |
| 84 | Construction of new building for election warehouse for storage of EVM & VVPAT Machines at Chathamangalam, Kozhikode | 18 months 22/01/2022 | 30/06/2022 | Ongoing | 2,85,87,050 | 5 | 23/07/2020 | 28 |
| 85 | Implementation of Plan Schemes during 2017-18 - Construction of new examination hall, Govt. Medical College, Kozhikode | 18 months 29/04/2022 | 29/12/2022 | Ongoing | 8,56,44,746 | 8 | 30/10/2020 | 44 |
| 86 | Infrastructure development for Govt. Taluk Hospital, Thamarassery - Phase I | 15 months 29/01/2022 | 30/07/2022 | Ongoing | 1,86,23,703 | 6 | 30/10/2020 | 40 |
| 87 | Urgent repair works - Providing sheet roofing for preventing leaking and handrail in step for handicapped people and other repair works etc., Mini Civil Station, Mananthavady | 7 months 12/06/2022 | | Ongoing | 20,55,706 | 6 | 13/12/2021 | 86 |

Appendix 13
Details of works where Insurance not collected / deductions not effected
(Referred to in Paragraph 2.3.6.4)

| Sl. No. | Name of work | Division | APAC (₹ in lakh) | Insurance required for but not collected (₹ in lakh) | Penalty 0.2 per cent to be deducted for non-production of Insurance |
|---------|---|--------------------------------------|------------------|--|---|
| 1 | Urgent repairs and maintenance work at Kerala House, Mumbai | Special Buildings Thiruvananthapuram | 272 | 2.00 | 0.54 |
| 2 | Construction of compound wall, Science and Arts College, Killimangalam | Thrissur | 102 | 2.00 | 0.20 |
| 3 | Construction of new building, Govt. Higher Secondary School, Kottathara | Wayanad | 112 | 2.00 | 0.22 |
| 4 | Construction of building for PHC Kottur under the scheme "Setting up of laboratories in PHCs"-Balussery LAC, Kozhikode | Kozhikode | 151 | 2.00 | 0.30 |
| 5 | Construction of examination hall cum auditorium and library complex, Nursing College - Phase II | Kottayam | 347 | 2.00 | 0.69 |
| 6 | Medical Education Services - Construction of additional block for Dental College, Kozhikode Phase IV & V | Kozhikode | 365 | 2.00 | 0.73 |
| 7 | Construction of MBBS Ladies hostel Phase II, Govt. Medical College, Thrissur | Thrissur | 212 | 2.00 | 0.42 |
| 8 | Construction of a new block, PWD Rest House, Erumely | Kottayam | 130 | 2.00 | 0.26 |
| 9 | Improvement works of ICU in Institute of Chest Diseases - Construction of Post Operative ICU and checkup facilities for Anesthesia Department, Improvement of drainage facilities in MCH and Converting the Hydrophobia Cell near Ward 2 to TMT Room and Procedure Room for Medicine Department, Medical College, Kozhikode | Kozhikode | 179 | 2.00 | 0.36 |
| 10 | ITI – Chakkai - Upgradation of the Institute to International Standards - Workshop renovation, construction of main gate, road etc. | Special Buildings Thiruvananthapuram | 282 | 2.00 | 0.56 |
| 11 | LAC ADS 2016-17 - Perambra Constituency - Construction of entrance block, terrace floor for existing HSS block and staircase, HS block, Avala HSS, Kozhikode | Kozhikode | 119 | 2.00 | 0.24 |
| 12 | Urgent maintenance and repairing works to the main building roof at Govt. Women's Polytechnic College, Nedupuzha, Thrissur | Thrissur | 117 | 2.00 | 0.23 |
| 13 | Renovation & Extension of computer block, main building and Construction of toilet block - Govt. Women's Polytechnic College, Nedupuzha, Thrissur | Thrissur | 136 | 2.00 | 0.27 |

| Sl. No. | Name of work | Division | APAC (₹ in lakh) | Insurance required for but not collected (₹ in lakh) | Penalty 0.2 per cent to be deducted for non-production of Insurance |
|---------|--|---|------------------|--|---|
| 14 | Construction of new building, Govt. LP School, Chengaloor | Thrissur | 128 | 2.00 | 0.26 |
| 15 | Construction of W & C wards, General Hospital, Thrissur - Phase II | Thrissur | 565 | 2.00 | 1.13 |
| 16 | Construction of 50 bedded ward and administrative block, Block PHC, Vamanapuram | Special Buildings Thiruvananthapuram | 566 | 2.83 | 1.13 |
| 17 | Prisons - Annual Plan Scheme - Modernisation of prisons 2017-2018 - District Jail, Mananthavady- Construction of Superintendent quarters, Staff quarters and Rest room for staff | Wayanad | 155 | 2.00 | 0.31 |
| 18 | Construction of compound wall for the campus of Govt. Medical College, Thrissur | Thrissur | 241 | 2.00 | 0.48 |
| 19 | RIDF XXII (2016-17) H&FWD Infrastructure work, Taluk Hospital (Phase I) Vaikom, Kottayam | Kottayam | 1,161 | 5.00 | 2.32 |
| 20 | Construction of building for Police Station, Kunnamangalam | Kozhikode | 120 | 2.00 | 0.24 |
| 21 | NABARD assistance under RIDF XXIV (2018-19) – Infrastructure development for Govt. Taluk Hospital Thamarassery - Phase I - Part TS (First & Second Floor of OP Block) | Kozhikode | 186 | 2.00 | 0.37 |
| 22 | Construction of Student's Utility Center at Govt. Polytechnic College, Nedupuzha, Thrissur | Thrissur | 160 | 2.00 | 0.32 |
| 23 | Construction of new building for LP School, Chettiparambu, Irinjalakuda | Thrissur | 211 | 2.00 | 0.42 |
| 24 | Construction of examination hall and research centre, Govt. College, Kottayam | Kottayam | 159 | 2.00 | 0.32 |
| 25 | NABARD-RIDF XXIII Construction of additional infrastructure works, Govt. Girls Higher Secondary School, Parayanchery, Kozhikode | Kozhikode | 179 | 2.00 | 0.36 |
| 26 | Implementation of Plan Schemes 2017-18 – Govt. Medical College, Kozhikode - Construction of new examination hall | Kozhikode | 856 | 4.28 | 1.71 |
| 27 | Budget Work 2017-2018 H&FWD - additional work required for the completion of Taluk Head Quarters Hospital, Kodungallur | Thrissur | 79 | 2.00 | 0.16 |
| 28 | Construction of new building for Govt. UP School, Moorkanikkara | Thrissur | 168 | 2.00 | 0.34 |
| 29 | Construction of Mechanical Production Lab, Govt. Engineering College, Kozhikode - Phase II | Kozhikode | 118 | 2.00 | 0.24 |

| Sl. No. | Name of work | Division | APAC (₹ in lakh) | Insurance required for but not collected (₹ in lakh) | Penalty 0.2 per cent to be deducted for non-production of Insurance |
|---------|---|--------------------------------------|------------------|--|---|
| 30 | Annual Plan 2017-18 - Construction of building for VHSE Block at GVHSS for Girls, Nadakkavu, Kozhikode | Kozhikode | 73 | 2.00 | 0.15 |
| 31 | Providing additional facilities to Panampilly College, Chalakudy | Thrissur | 202 | 2.00 | 0.40 |
| 32 | UGC Scheme - Construction of Women's Hostel for CKGM College, Perambra, Koyilandy Taluk, Kozhikode | Kozhikode | 108 | 2.00 | 0.22 |
| 33 | Annual Plan - 2016-17 - Construction of Nursing School and Hostel, District Hospital, Mananthavady - Phase II | Wayanad | 157 | 2.00 | 0.31 |
| 34 | Renovation of the Principal's Office, Govt. Medical College, Trivandrum | Special Buildings Thiruvananthapuram | 67 | 2.00 | 0.13 |
| 35 | Construction of Naval training centre and cadets accommodation block for ladies & boys at 1 Kerala Naval NCC, Akulam | Special Buildings Thiruvananthapuram | 855 | 4.28 | 1.71 |
| 36 | Construction of a building, GLP School, Anayamkunnu, Kozhikode | Kozhikode | 129 | 2.00 | 0.26 |
| 37 | Construction of compound wall and gate, Govt. Dermatology Hospital, Chevayur, Kozhikode | Kozhikode | 93 | 2.00 | 0.19 |
| 38 | Construction of five storied building, Vigilance Bureau Office, Muttathara - Phase I, Thiruvananthapuram | Special Buildings Thiruvananthapuram | 886 | 4.43 | 1.77 |
| 39 | Construction of new building for election warehouse for storage of EVM & VVPAT Machines, Chathamangalam, Kozhikode | Kozhikode | 285 | 2.00 | 0.57 |
| 40 | Construction of new building, Govt. ITI (SCDD), Elathur, Kozhikode | Kozhikode | 229 | 2.00 | 0.46 |
| 41 | NABARD - RIDF XXII -2016-17 Infrastructure works for additional hospital building, Taluk Hospital, Sulthan Bathery, Wayanad | Wayanad | 1,496 | 5.00 | 2.99 |
| 42 | Vertical extension to the existing building for Labour room and Operation Theatre, Chelakkara Hospital | Thrissur | 96 | 2.00 | 0.19 |
| 43 | Construction of administration block 1 st & 2 nd floor | Kottayam | 170 | 2.00 | 0.34 |
| 44 | Retaining wall Govt. Polytechnic College, Pala | Kottayam | 212 | 2.00 | 0.42 |
| 45 | LP School, Karoor, Thrissur | Thrissur | 99 | 2.00 | 0.20 |

| Sl. No. | Name of work | Division | APAC (₹ in lakh) | Insurance required for but not collected (₹ in lakh) | Penalty 0.2 per cent to be deducted for non-production of Insurance |
|---------|--|-----------|------------------|--|---|
| 46 | GMCTCR - Establishment and modernisation of drug stores under DME - Construction of central warehouse - Phase II | Thrissur | 145 | 2.00 | 0.29 |
| 47 | GLPS, Neerekadavu, Vaikom | Kottayam | 110 | 2.00 | 0.22 |
| 48 | Construction of new building for Mechanical and Electrical Dept, Govt. Engineering College, Thalapuzha | Wayanad | 514 | 2.57 | 1.03 |
| 49 | College of Pharmaceutical Sciences Phase II, Kottayam | Kottayam | 1,106 | 5.00 | 2.21 |
| 50 | Construction of Academic Block for SARBTM Govt. College, Koyilandy, Kozhikode | Kozhikode | 547 | 2.74 | 1.09 |
| 51 | Kunnumbhagam GHS, Kanjirappally | Kottayam | 157 | 2.00 | 0.31 |
| 52 | Construction of administrative block, Govt. Polytechnic College, Kunnankulam | Kozhikode | 322 | 2.00 | 0.64 |
| 53 | Construction of building, District Public Health Lab, Thrissur | Thrissur | 149 | 2.00 | 0.30 |
| 54 | NABARD – RIDF - XXIII- Infrastructure works for School under RMSA - Samagra Shiksha Kerala GHS Beenachi, Wayanad | Wayanad | 162 | 2.00 | 0.32 |
| 55 | Construction of Court Complex, Irinjalakuda (Phase I) | Thrissur | 2,689 | 5.00 | 5.38 |
| | Total | | | 131.12 | 37.27 |

Appendix 14
Details of works where less Defect Liability Period provided
(Referred to in Paragraph 2.3.6.6)

| Sl. No. | Name of work | Agreement by Circle/ Division | Agreed Probable Amount of Contract (₹ in lakh) | Agreement No. and Date | DLP as per agreement in months |
|---------|---|-------------------------------|--|-------------------------------|--------------------------------|
| 1 | SC ST Dept. IIMS Palakkad - Construction of third floor, Medical College block at Palakkad | North | 786.86 | SE(K)63/2019-20 26/12/2019 | 36 |
| 2 | Construction of academic block, SARBTM Govt College, Koyilandy | North | 547.25 | SE(K)62/2019-20 24/12/2019 | 36 |
| 3 | Construction of building, PWD Rest House, Sulthan Bathery | North | 223.21 | SE(K)58/2019-20 16/12/2019 | 36 |
| 4 | Construction of a building, GMLPS, Marayoor | North | 92.17 | SE(K)56/2019-20 9/12/2019 | 36 |
| 5 | Construction of E.Narayanan Memorial Auditorium, Engineering College, Thalassery | North | 180.32 | SE(K)60/2019-20 16/12/2019 | 36 |
| 6 | Construction of new building, Govt. TTI for Men Model UP School, Kannur | North | 92.57 | SE(K)57/2019-20 10/12/2019 | 36 |
| 7 | General Education Dept. Construction of building, KPR GHSS, Kalliassery | North | 210.64 | SE(K)55/2019-20 09/12/2019 | 36 |
| 8 | Construction of three storied building, GHSS, Palayad | North | 391.19 | SE(K)61/2019-20 20/12/2019 | 36 |
| 9 | Construction of Annexure to PWD Rest House, Vadakkanchery | North | 222.77 | SE(K)64/2019-20 26/12/2019 | 36 |
| 10 | Construction of super speciality block, District Hospital, Palakkad | North | 123.07 | SE(K)54/2019-20 04/12/2019 | 36 |
| 11 | Construction of new building for Mechanical and Electrical Dept. Govt. Engineering College, Thalappuzha | North | 514.54 | SE(K)69/2019-20 13/01/2020 | 36 |
| 12 | Construction of School building, GMLP School, Chandakkunnu, Nilambur | North | 106.66 | SE(K)68/2019-20 09/01/2020 | 36 |
| 13 | Construction of new building, Regional Public Health Laboratory, Puthupperiyaram, Palakkad | North | 113.33 | SE(K)67/2019-20 04/01/2020 | 36 |
| 14 | Construction of PWD Complex, Kannur 1 st Phase, Block II | North | 137.48 | SE(K)65/2019-20 01/01/2020 | 36 |
| 15 | Construction of new building and construction of second floor in existing building, GHS Theyyani | North | 155.53 | SE(K)66/2019-20 01/01/2020 | 36 |

| Sl. No. | Name of work | Agreement by Circle/ Division | Agreed Probable Amount of Contract (₹ in lakh) | Agreement No. and Date | DLP as per agreement in months |
|---------|--|-------------------------------|--|---|--------------------------------|
| 16 | Construction of School building of GHSS East Hill, Kozhikode | North | 126.35 | SE(K)79/2019-20 20/02/2020 | 36 |
| 17 | Construction of new building, Kurikkathur Anganavadi, Kozhikode | Kozhikode | 10.95 | EE(BC)Price2/45 /2019-20 16/12/2019 | 36 |
| 18 | Demolishing existing building and construction of new building for sub centre, Kuruvangad | Kozhikode | 29.78 | EE(BC)Price2/49 /2019-20 24/12/2019 | 36 |
| 19 | LAC-ADS 2017-18 Construction of School building for Parayancheri Govt HSS for Boys, Puthiyara | Kozhikode | 36.15 | EE(BC)Price2/50 /2019-20 3/1/2020 | 36 |
| 20 | Construction of Kitchen block at Govt. Technical School, Dwaraka, Wayanad | Wayanad | 18.93 | EE/B/26/2019-20 dated 06/12/2019 | 36 |
| 21 | Construction of Heritage Museum at Kallor, Noolpuzha | Wayanad | 18.12 | EE/B/27/2019-20 dated 09/12/2019 | 36 |
| 22 | Kitchen blocks in various Aided School in Kaipamangalam | Thrissur | 82.91 | 84/2019- 20/EE/B/TSR dated 06/03/2020 | 36 |
| 23 | Construction of new building for Govt. LP School, Kaipamangalam | Thrissur | 59.62 | 69/2019- 20/EE/B/TSR dated 04/12/2019 | 36 |
| | | | 4,280.40 | | |

Appendix 15
Details of buildings pending handing over to user Department
(Referred to in Paragraph 2.3.6.7)

| Sl. No. | Name of work/building | Division | Date of completion | Expenditure (₹ in lakh) | Delay in months (upto 11/2022) |
|---------|---|-----------|--------------------|-------------------------|--------------------------------|
| 1 | Construction of twin cottage for Village Office at Narippatta | Kozhikode | 22/02/2020 | 46.35 | 33 |
| 2 | Construction of building for Govt. UP School at Kumbalachola, Narippatta | Kozhikode | 21/10/2020 | 81.90 | 25 |
| 3 | LAC ADS 2017-18 - Construction of building, PHC, Kayakkody Grama Panchayat in Nadapuram LAC | Kozhikode | 21/10/2020 | 41.61 | 25 |
| 4 | Construction of Model Residential School, Maruthankara | Kozhikode | 21/02/2020 | 810.83 | 33 |
| 5 | LAC ADS 2017-18 - Construction of new building for PHC at Edachery | Kozhikode | 21/10/2020 | 41.31 | 25 |
| 6 | Construction of School building for Govt. HSS, Azhiyur | Kozhikode | 29/07/2020 | 30.71 | 28 |
| 7 | Construction of new building for Homeo Dispensary, Tunery | Kozhikode | 29/09/2020 | 21.76 | 26 |
| 8 | Construction of new building in Govt. Technical High School, Kozhikode | Kozhikode | 17/05/2020 | 77.04 | 30 |
| 9 | Construction of School building for Govt. UP School, Padinjattumuri | Kozhikode | 01/06/2020 | 77.04 | 28 |
| 10 | Construction of additional block for Dental College, Kozhikode | Kozhikode | 18/09/2020 | 364.41 | 25 |
| 11 | Construction of building for Kakkad Village Office | Kozhikode | 20/09/2020 | 21.06 | 25 |
| 12 | Construction of building for Mavoor Govt. HSS, Kunnamangalam | Kozhikode | 29/01/2022 | 104.46 | 10 |
| 13 | Construction of Model Police Station, Kunnamangalam | Kozhikode | 05/04/2021 | 118.62 | 19 |
| 14 | Construction of building for Parayancheri Govt. Vocational HSS | Kozhikode | 09/02/2021 | 39.17 | 14 |
| 15 | Construction of Anganwadi building at Kannanchinnanpalam, Perumanna | Kozhikode | 13/08/2020 | 13.13 | 27 |
| 16 | Construction of building for Azhchavattom Govt. HSS | Kozhikode | 25/03/2022 | 26.57 | 8 |
| 17 | Construction of Hospital building at Govt. Homeo Medical College, Kozhikode | Kozhikode | 06/05/2019 | 11.03 | 29 |
| 18 | Construction of new building for Veterinary Dispensary, Kakkadompoyil | Kozhikode | 16/04/2019 | 40.67 | 16 |
| 19 | Construction of quarters and rest rooms for District Jail, Mananthavady | Wayanad | 05/02/2021 | 153.33 | 21 |
| 20 | Construction of Nursing School and Hostel, District Hospital, Mananthavady | Wayanad | 20/01/2021 | 174.07 | 22 |
| 21 | Construction of classroom building for Polytechnic College, Dwaraka | Wayanad | 27/03/2019 | 56.37 | 44 |

| Sl. No. | Name of work/building | Division | Date of completion | Expenditure (₹ in lakh) | Delay in months (upto 11/2022) |
|--------------|--|----------|--------------------|-------------------------|--------------------------------|
| 22 | Construction of electronic block for Govt. Poly Technic Meenangadi | Wayanad | 09/01/2020 | 154.18 | 34 |
| 23 | Construction of staff quarters at Ambalavayal Village Office | Wayanad | 27/03/2020 | 22.91 | 32 |
| 24 | Construction of staff quarters at Thomattuchal Village | Wayanad | 27/05/2020 | 21.25 | 30 |
| Total | | | | 2,549.78 | |

Appendix 16
List of Buildings where handing over was delayed
(Referred to in Paragraph 2.3.6.7)

| Sl. No. | Name of work | Division | Date of completion | Date of handing over the buildings | APAC (₹ in lakh) | Delay in months |
|---------|---|-----------|--------------------|------------------------------------|------------------|-----------------|
| 1 | Construction of Women's hostel for CKGM College, Perambra | Kozhikode | 26/02/2020 | 26/11/2021 | 102.83 | 20 |
| 2 | Construction of building, PHC, Kottur | Kozhikode | 31/08/2020 | 28/05/2022 | 143.71 | 20 |
| 3 | Construction of flat type residential complex for Gazetted Officers, Govt. Medical College, Kozhikode | Kozhikode | 25/02/2021 | 28/12/2021 | 771.30 | 10 |
| 4 | Construction of classroom building for Govt. HSS, Achoor | Wayanad | 05/05/2020 | 22/07/2021 | 55.23 | 13 |
| 5 | Construction of new classroom building for Govt. LP School, Puliarmala | Wayanad | 18/10/2021 | 14/07/2022 | 29.10 | 8 |
| 6 | Construction of Principal quarters of NMSM Govt. College, Kalpetta | Wayanad | 12/08/2021 | 22/06/2022 | 29.24 | 9 |
| 7 | Construction of permanent District Early Intervention Centre, Kalpetta | Wayanad | 28/09/2019 | 18/12/2020 | 198.65 | 14 |
| 8 | Construction of building for Govt. LP School, Ambalavayal | Wayanad | 31/03/2020 | 18/02/2021 | 76.91 | 10 |
| 9 | Construction of school building for Govt. Vocational Higher Secondary School, Ambalavayal | Wayanad | 31/03/2020 | 18/02/2021 | 77.28 | 10 |
| 10 | Construction of Heritage Museum, Kalloor | Wayanad | 17/12/2020 | 16/09/2022 | 22.02 | 20 |

Appendix 17
Frequency of Quality Control Tests
(Referred to in Paragraph 2.3.7.1, 2nd bullet)

| Material | | Test required | | | | | Frequency | |
|-----------------------------------|---------------------------|--------------------------|------------------|-----------------------|-----------------------------|--------------------------------|---|--------------|
| Mortar ingredients (400-4) | Water | pH value | Acidity | Alkalinity | Per cent of solids | | 3 tests from each source | |
| | Cement | Fineness | Soundness | Setting time | Compressive strength | Consistency of standard cement | For every 50 tonnes | |
| | Sand | Deleterious constituents | Silt contents | Gradation | Bulking | | For every 20 cum except gradation (40cum) | |
| | Brick for Masonry (403-6) | Dimensional tolerance | Water absorption | Efflorescence | Compressive strength | | As per table 400-7 and 400-8 | |
| | Laterite stones | Water absorption | Specific gravity | | Compressive strength | | Table 400-19 | |
| Concrete | Reinforcing steel (600-7) | Tensile strength | Proof stress | Percentage elongation | Elongation at maximum force | Bend and rebend test | 2/3 per cast according to the weight at least two weeks before commencement of concrete works | |
| | | Slump | | | | | Every 5 cum | |
| | | Cube test slab | | | | | | Every 20 cum |
| | | Cube test columns | | | | | | Every 5 cum |

Appendix 18
List of works with Nil QC tests and without QC tests on masonry items
(Referred to in Paragraph 2.3.7.1, 2nd bullet)

| Sl. No. | Name of the work | Division | QC tests conducted | QC test on masonry works |
|---------|--|--------------------------------------|--------------------|--------------------------|
| 1 | Construction of compound wall and gate, Govt. Dermatology Hospital Chevayur, Kozhikode | Kozhikode | Nil | Not conducted |
| 2 | Construction of Mechanical Production Lab at Govt. Engineering College, Kozhikode - Phase II | Kozhikode | Nil | Not conducted |
| 3 | Construction of School building of Govt. U P School, Chennalode, Wayanad | Wayanad | Nil | Not conducted |
| 4 | Election commission construction of warehouse for storage of EVMs and VVPAT machines at Chathamangalam, Kunnamangalam | Kozhikode | Nil | Not conducted |
| 5 | Providing lady by-standers waiting area and toilet facilities at 3 rd Floor of Cardiology & Cardiothoracic Block at Govt. Medical College, Kottayam | Kottayam | Nil | Not conducted |
| 6 | Construction of Hospital Block, Govt. Homeo Medical College, Kozhikode | Kozhikode | Nil | Not conducted |
| 7 | USR to indoor basketball court storage room Govt. Physical Education College, Kozhikode | Kozhikode | Nil | Not conducted |
| 8 | ITI - Chakkai - Upgradation of the Institute to International Standards - Workshop renovation, Construction of main gate road <i>etc.</i> | Special Buildings Thiruvananthapuram | Nil | Not conducted |
| 9 | LAC - ADS - 2017-18 - Construction of a building for GLP School, Anayamkunnu, Karassery Grama Panchayath, Kozhikode | Kozhikode | Nil | Not conducted |
| 10 | Infrastructure development for Kizhapparayar FHC, Meenachil, Panchayath | Kottayam | Nil | Not conducted |
| 11 | NABARD – RIDF - XXIII- Infrastructure works for School under RMSA - GHS Beenachi, Wayanad | Wayanad | Nil | Not conducted |
| 12 | NABARD assistance under RIDF XXIV 2018-19 infrastructure development for Govt. Taluk Hospital, Thamarassery Phase I | Kozhikode | Nil | Not conducted |
| 13 | RUSA- FUND - Renovation of existing college building at SARBTM Govt. College Koyilandy, Kozhikode | Kozhikode | Nil | Not conducted |
| 14 | UGC Scheme - Construction of Women's Hostel for CKGM College, Perambra, Koyilandy Taluk Kozhikode | Kozhikode | Nil | Not conducted |
| 15 | Annual Plan 2017-18 - Construction of building for VHSE Block at GVHSS for Girls, Nadakkavu, Kozhikode | Kozhikode | NA | Not conducted |

| Sl. No. | Name of the work | Division | QC tests conducted | QC test on masonry works |
|---------|--|-----------|--------------------|--------------------------|
| 16 | Construction of flat type residential complex for Gazetted Officers at Govt. Medical College, Kozhikode | Kozhikode | NA | Not conducted |
| 17 | Construction of additional block for Dental College, Kozhikode, Phase IV and phase V | Kozhikode | NA | Not conducted |
| 18 | Construction of building for PHC, Kottur | Kozhikode | NA | Not conducted |
| 19 | Construction of examination hall and research Centre at Govt. College, Kottayam | Kottayam | NA | Not conducted |
| 20 | Construction of flat type residential complex for non-Gazetted officers at Govt. Medical College, Kozhikode | Kozhikode | NA | Not conducted |
| 21 | Construction of Mini Civil Station, Balussery | Kozhikode | NA | Not conducted |
| 22 | Construction of Model Residential School Maruthonkara, Kozhikode | Kozhikode | NA | Not conducted |
| 23 | Construction of new block for District PSC Office at Kottayam | Kottayam | NA | Not conducted |
| 24 | Construction of new building for Govt. ITI (SCDD), Elathur, Kozhikode | Kozhikode | NA | Not conducted |
| 25 | Construction of new building for Govt. LP School, Kaipamangalam | Thrissur | NA | Not conducted |
| 26 | Construction of new building for Govt. LPBS, Kidangoor | Kottayam | NA | Not conducted |
| 27 | Construction of plus two block for GVHS School, Desamangalam. | Thrissur | NA | Not conducted |
| 28 | General Education - Annual plan - 2017-18 - Construction of School building for Govt. LP School, Meenchanda, Kozhikode | Kozhikode | NA | Not conducted |
| 29 | Implementation of Plan Schemes during 2017-18 - Govt. Medical College, Kozhikode Construction of new examination hall | Kozhikode | NA | Not conducted |
| 30 | Construction of Golden Jubilee PG block at Govt. Arts and Science College, Kozhikode | Kozhikode | NA | Not conducted |
| 31 | Annual Plan 2017-18 - Construction of Academic Block for SARBTM Govt. College, Koyilandy | Kozhikode | NA | Not conducted |
| 32 | HSE Construction of Higher Secondary Block for Govt. Sanskrit H SS Meppayil, Vatakara | Kozhikode | NA | Not conducted |
| 33 | LAC ADS 2016-17 - Construction of Entrance block, terrace floor for existing HSS block and staircase for HS block for Avala HSS, Kozhikode | Kozhikode | NA | Not conducted |
| 34 | LAC-ADS (2018-19) LAC - Construction of building for Police Station, Kunnamangalam | Kozhikode | NA | Not conducted |
| 35 | NABARD - Construction of new building for Kanjirappally, Kunnumbhagam GHS | Kottayam | NA | Not conducted |

| Sl. No. | Name of the work | Division | QC tests conducted | QC test on masonry works |
|---------|--|-----------|--------------------|--------------------------|
| 36 | NABARD assistance RIDF XXI infrastructure works in Govt. Taluk Hospital, Vatakara, Kozhikode | Kozhikode | NA | Not conducted |
| 37 | NABARD RIDF XXIII - Construction of additional infrastructure works for Govt. Girls Higher Secondary School, Parayanchery, Kozhikode | Kozhikode | NA | Not conducted |
| 38 | NABARD RIDF XXIII - Construction of new building at Govt. UP School (Upgraded as GHS) Perambra, Kozhikode | Kozhikode | NA | Not conducted |
| 39 | RIDF XX - Construction of Community Health Centre for Paika Hospital | Kottayam | NA | Not conducted |
| 40 | STDD - Construction of Govt. Tribal UP School, Kosady, Mundakayam | Kottayam | NA | Not conducted |

Appendix 19
Details of works without approved Design Mix
(Referred to in Paragraph 2.3.7.1, 4th bullet)

| Sl. No. | Name of the work | Division |
|---------|--|-----------|
| 1 | NABARD assistance under RIDF XXIV (2018-19) - Infrastructure Development for Govt. Taluk Hospital Thamarassery – Phase I – Part -TS (first and second floor of OP Block) | Kozhikode |
| 2 | Construction of new building for election warehouse for storage of EVM & VVPAT Machines at Chathamangalam, Kozhikode | Kozhikode |
| 3 | Construction of additional block for Dental College, Kozhikode - Phase IV & V | Kozhikode |
| 4 | RUSA - FUND - Renovation of existing college building at SARBTM Govt. College, Koyilandy, Kozhikode | Kozhikode |
| 5 | Construction of compound wall and gate for the Govt. Dermatology Hospital, Chevayur, Kozhikode | Kozhikode |
| 6 | UGC Scheme - Construction of Women's Hostel for CKGM College, Perambra in Koyilandy Taluk, Kozhikode | Kozhikode |
| 7 | HSE Construction of Higher Secondary Block for Govt. Sanskrit HSS, Meppayil, Vatakara | Kozhikode |
| 8 | Construction of Mechanical Production Lab at Govt. Engineering College, Kozhikode - Phase II | Kozhikode |
| 9 | NABARD RIDF XXIII - Infrastructure works under RMSA(SSK) - Construction of new building at G H S Perambra Plantation in Kozhikode - Construction of new building at Govt. UP School (Upgraded as GHS) Perambra Plantation in Kozhikode | Kozhikode |
| 10 | Construction of plus two block for GVHS School, Desamangalam | Thrissur |
| 11 | Deposit Work - Vertical Extension to the existing building for Labour Room and Operation Theatre of Chelakkara Hospital - Phase I | Thrissur |

Appendix 20
Lapses in setting up of Field Lab at site noticed during Joint Physical Verification
(Referred to in Paragraph 2.3.7.2)

| Sl. No. | Name of work | Division | Field Lab |
|---------|--|--------------------|-----------------|
| 1 | NABARD - RIDF - XXI (2015-16) Infrastructure work like construction of multipurpose hospital block of District Hospital, Mananthavadi, Wayanad | Wayanad | Not available |
| 2 | NABARD RIDF XXII (2016-17) Infrastructure works for additional hospital building in Taluk Hospital, Sulthan Bathery, Wayanad | Wayanad | Not available |
| 3 | Infrastructure works for additional hospital building in Taluk Hospital, Vythiri | Wayanad | Not available |
| 4 | Construction of new building at Mental Health Centre, Kozhikode | Kozhikode | Not available |
| 5 | Construction of additional block for Dental College, Kozhikode | Kozhikode | Not available |
| 6 | Construction of new office complex for accommodating various Commissions at Pattom, Thiruvananthapuram | Thiruvananthapuram | Randomly placed |
| 7 | Construction of Naval training centre and cadets accommodation block for ladies & boys at 1 Kerala Naval NCC at Akkulam | Thiruvananthapuram | Randomly placed |

Appendix 21
Non/Short deployment of contractor's engineering personnel at site for
monitoring the work
(Referred to in Paragraph 2.3.7.3, 2nd bullet)

| Sl. No. | Name of work | Division | No. of technical persons required | No. of technical persons deployed |
|---------|--|--------------------------------------|-----------------------------------|-----------------------------------|
| 1 | Construction of new building for Govt. LPBS, Kidangoor | Kottayam | 2 | Nil |
| 2 | Providing lady by-standers waiting area and toilet facilities at 3 rd Floor of Cardiology & Cardiothoracic Block at Govt. Medical College, Kottayam | Kottayam | 2 | Nil |
| 3 | STDD - Construction of Govt. Tribal UP School, Kosady, Mundakayam | Kottayam | 4 | Nil |
| 4 | Renovation of the road from RCC Jn. to Principal office front and formation of road from Manjadi road to Principal office back Govt. Medical College, Thiruvananthapuram | Special Buildings Thiruvananthapuram | 2 | Nil |
| 5 | Resurfacing of internal road, repair work to drain providing cement concrete flooring to the vehicle shed and allied works in SAT Hospital, Thiruvananthapuram | Special Buildings Thiruvananthapuram | 1 | Nil |
| 6 | ITI - Chakkai - Upgradation of the Institute to International Standards - Workshop renovation, construction of main gate road <i>etc.</i> | Special Buildings Thiruvananthapuram | 6 | Nil |
| 7 | Improvement works of ICU in Institute of Chest Diseases - Construction of Post Operative ICU and check-up facilities for Anesthesia Department, Improvement of drainage facilities in MCH and Converting the Hydrophobia Cell near Ward 2 to TMT Room and Procedure Room for Medicine Department in Medical College, Kozhikode | Kozhikode | 4 | Nil |
| 8 | Construction of new building for GHS School, Kattoor, Irinjalakuda | Thrissur | 2 | 1 |
| 9 | Construction of School building for Govt. LP School, Meenchanda, Kozhikode | Kozhikode | 2 | 1 |
| 10 | UGC Scheme - Construction of Women's Hostel for CKGM College, Perambra, Koyilandy Taluk, Kozhikode | Kozhikode | 2 | 1 |
| 11 | Higher Education Department - Annual Plan 2017-18 - Construction of Academic Block for SARBTM Govt. College, Koyilandy, Kozhikode | Kozhikode | 6 | 1 |
| 12 | NABARD - Assistance RIDF XXI - Infrastructure works in Govt. Taluk Hospital, Vatakara, Kozhikode | Kozhikode | 6 | 3 |

| | | | | |
|---|--|---|-----------|----------|
| 13 | Construction of new building for election warehouse for storage of EVM & VVPAT machines, Chathamangalam, Kunnamangalam Constituency, Kozhikode | Kozhikode | 4 | 1 |
| Total | | | 43 | 8 |
| Joint Physical Inspection of ongoing works | | | | |
| 14 | Medical Education Services - Construction of additional block for Dental College, Kozhikode - Phase IV & V | Kozhikode | 4 | 1 |
| 15 | Mental Health centre, Kozhikode | Kozhikode | 6 | 1 |
| 16 | Construction of new office complex for accommodating various Commissions at Pattom, Thiruvananthapuram | Special Buildings Thiruvananthapuram | 9 | 1 |
| 17 | Construction of Naval training centre and cadets accommodation block for ladies & boys at 1 Kerala Naval NCC at Akkulam, Thiruvananthapuram | Special Buildings Thiruvananthapuram | 6 | 1 |
| Total | | | 25 | 4 |

Appendix 22
Loss due to allowance of actual conveyance for materials in case of four major items
(Referred to in Paragraph 2.5(a))

| Name of work | Number/Name of item | Executed quantity in m ³ | Rate/ m ³ as per sanctioned estimate with actual conveyance (₹) | Rate allowing minimum conveyance plus cost index (₹/ m ³)* | Excess Rate/m ³ (₹) | Excess Amount (₹) |
|---|--|-------------------------------------|--|--|--------------------------------|--------------------|
| Construction of Fly over at Thodayad | Appendix B-10) RCC M30 | 1,687.13 | 10,904 | 10,481 | 423 | 7,13,656 |
| | Appendix B-12) RCC M45 | 3,458.46 | 13,604 | 12,413 | 1,191 | 41,19,026 |
| | Appendix C-3) Construction of embankment | 651.45 | 540 | 394 | 146 | 95,112 |
| | Appendix – E/2/ PCC M15 | 5,488.90 | 7,516 | 7,152 | 364 | 19,97,960 |
| Construction of Fly over at Ramanattukara | Appendix B-10) RCC M30 | 956.07 | 10,904 | 10,481 | 423 | 4,04,418 |
| | Appendix B-11) RCC M45 | 3,139.22 | 13,604 | 12,413 | 1,191 | 37,38,811 |
| | Appendix C-3) Construction of embankment | 27,913.26 | 540 | 394 | 146 | 40,75,336 |
| | Appendix – E/2/ PCC M15 | 6,802.56 | 7,516 | 7,152 | 364 | 24,76,132 |
| Total | | | | | | 1,76,20,451 |

* Applicable rates from PRICE software as per DSoR 2014

Appendix 23
Unwarranted provisions in the estimate
(Referred to in Paragraph 2.5(b))

1. Excess expenditure on work of Pile load test:

| Name of work/ Agreement Number | Item Number/Quantity and Rate as per agreement | Quantity executed (m) | Rate/ m ³ as per sanctioned estimate (₹) | Amount paid in ₹ |
|---|---|--------------------------|--|---------------------|
| Construction of Fly over at Thodayad | Appendix B- Item 8- Pile load test | 3,855 | 300 | 11,56,500 |
| Construction of Fly over at Ramanattukara | 1)Appendix II- Item 6- Pile load test | 4,470 | 300 | 13,41,000 |
| | 2) Appendix VIII- Construction of Neelithodu bridge- Item 6 Pile load test | 300 | 300 | 90,000 |
| | 3)Appendix IX (ii)- Construction of service bridge- Item 6 Pile load test | 600 | 300 | 1,80,000 |
| Total | | | | 27,67,500 |

2. Excess expenditure on work of Chipping and removing of excess of RCC pile:

| Name of work | Item of work | Executed quantity in m ³ | Rate/ m ³ as per sanctioned estimate (₹) | Excess Amount (₹) |
|---|---|---|---|----------------------|
| Construction of Fly over at Thodayad | Appendix-B 7) Chipping and removing excess length of RCC pile | 29.65 | 11,494 | 3,40,797 |
| Construction of Fly over at Ramanattukara | Appendix-B 7) Chipping and removing excess length of RCC pile | 35.55 | 11,494 | 4,08,612 |
| | Appendix-H 7) Chipping and removing excess length of RCC pile | 6.1 | 11,034 | 67,307 |
| | Appendix-I 7) Chipping and removing excess length of RCC pile | 8.14 | 11,034 | 89,817 |
| Total | | | | 9,06,533 |

3. Excess expenditure on work of Driving down MS liner already fabricated to the required depth:

| Name of work | Item of work | Executed quantity in metres (m) | Rate/m as per sanctioned estimate (₹) | Amount (₹) |
|---|---|---------------------------------|---------------------------------------|-----------------|
| Construction of Fly over at Thodayad | Appendix-B 4) Driving down 1000mm dia MS liner already fabricated to the required depth | 210 | 1,554 | 3,26,340 |
| Construction of Fly over at Ramanattukara | Appendix-B 5) Driving down 1200mm dia MS liner already fabricated to the required depth | 225 | 1,554 | 3,49,650 |
| | Appendix-H 5) Driving down 1200mm dia MS liner already fabricated to the required depth | 45 | 1,492 | 67,140 |
| | Appendix-I Driving down 1200 mm dia MS liner already fabricated to the required depth | 60 | 1,492 | 89,520 |
| Total | | | | 8,32,650 |

4. Excess expenditure on work of Bored cast in situ reinforced piles:

| Name of work | Item of work | Executed quantity in metres (m) | Rate/m as per sanctioned estimate (₹) | Amount (₹) |
|---|--|---------------------------------|---------------------------------------|------------------|
| Construction of Fly over at Thodayad | Appendix-B 6) Bored cast in situ reinforced piles of size 1000mm (rock penetration of 60 cm depth in each bore hole). | 50.40 | 35,455 | 17,86,932 |
| Construction of Fly over at Ramanattukara | Appendix-B - 3) Bored cast in situ reinforced piles of size 1200mm (rock penetration of 100 cm depth in each bore hole). | 42 | 50,703 | 21,29,526 |
| | Appendix-H - 3) Bored cast in situ reinforced piles of size 1200mm (rock penetration of 60 cm depth in each bore hole). | 7.2 | 48,680 | 3,50,496 |
| | Appendix-I 3) Bored cast in situ reinforced piles of size 1200mm (rock penetration of 60 cm depth in each bore hole). | 9.6 | 48,680 | 4,67,328 |
| Total | | | | 47,34,282 |

5. Excess expenditure on work of Bored cast in situ M 35 grade RCC pile:

| Name of work | Item of work | Executed quantity in metres (m) | Rate/m as per sanctioned estimate (₹) | Rate/m excluding 5 per cent (₹) | Excess cost/m (₹) | Excess paid (₹) |
|---|---|---------------------------------|---------------------------------------|---------------------------------|--------------------------------|--------------------|
| Construction of Fly over at Thodayad | Appendix-B 5) Bored cast in situ M 35 grade RCC pile (1000mm dia) | 1,000.57 | 14,182 | 13,506 | 676 | 6,76,385 |
| Construction of Fly over at Ramanattukara | Appendix-B 2) Bored cast in situ M 35 grade RCC pile (1200mm dia) | 1,279.73 | 20,281 | 19,315 | 966 | 12,36,219 |
| | | | | | Total | 19,12,604 |
| | | | | | Grand Total (1+2+3+4+5) | 1,11,53,569 |

Appendix 24
Excess amount paid/ non-recovered amount in respect of Bitumen
(Referred to in Paragraph 2.6)

(₹ in lakh)

| Sl. No. | Name of work (Date of completion) | Estimated cost of bitumen to be recovered as per adequacy (A) | Purchase cost of bitumen reimbursed* (B) | Amount to be recovered on differential cost of bitumen (A-B) | Repayment/ adjustment made in after final bill / final bill (Date of payment) | Excess amount paid/ non recovered amount | Remarks |
|---|--|---|--|--|---|--|--|
| Excess amount paid by reopening the closed work bills through after final bill | | | | | | | |
| 1 | Reconstruction of Kottekanni bridge (Korathi kundu) (03/2018) | 69.18 | 59.06 | 10.12 | 10.12 (08/2020) | 10.12 | The differential cost recovered from final bill was refunded through after final bill. |
| 2 | Improvements to Neeleswaram - Edathode Road (06/2017) | 131.48 | 86.58 | 44.90 | 135.48 (06/2019) | 58.56 | Excess payment included differential cost of ₹44.90 lakh and tender premium calculation error of ₹13.66 lakh, after adjusting previous short payment error of ₹76.92 lakh. |
| 3 | Improvements to Anachappa – Chattamala – Kattamkavala road (02/2018) | 25.48 | 23.66 | 1.82 | 6.83 (11/2019) | 2.81 | Excess payment included differential cost of ₹1.82 lakh and refund of cost of empty drums ₹0.99 lakh initially recovered. |
| Sub total | | | | | | 71.49 | |
| Non/short recovery and/or refund of recovered amount in subsequent bills | | | | | | | |
| 4 | Providing BM & BC to old MCC Road, Bengara - Manjeshwar- | 265.22 | 222.22 | 43.00 | 41.63 (10/2019) | 43.00 | ₹41.63 lakh recovered in the 2 nd and part bill was refunded in the |

| Sl. No. | Name of work (Date of completion) | Estimated cost of bitumen to be recovered as per adequacy (A) | Purchase cost of bitumen reimbursed* (B) | Amount to be recovered on differential cost of bitumen (A-B) | Repayment/ adjustment made in after final bill / final bill (Date of payment) | Excess amount paid/ non recovered amount | Remarks |
|------------------|---|---|--|--|---|--|---|
| | Kuloor road and Meeyappadavu-Chigurpade road (09/2018) | | | | | | final bill. The total differential cost recoverable was ₹43.00 lakh. |
| 5 | Improvements to Hosdurg-Panathur road (SH) - Chemberi - Koolichal under Kasaragod Development Package (03/2018) | 64.30 | 59.72 | 4.58 | - | 4.58 | No recovery of cost of bitumen used was made. |
| 6 | Thekkil-Alatty road (1 st phase) (12/2017) | 76.38 | 67.05 | 9.33 | - | 15.25 | Short estimate cost recovery of ₹44.81 lakh and short invoice amount reimbursement of ₹35.48 lakh led to excess payment of ₹9.33 lakh. Adding erroneous tender rebate of ₹ 5.92 lakh led to a total excess payment of ₹15.25 lakh |
| Sub total | | | | | | 62.83 | |
| Total | | | | | | 134.32 | |

*Since the purchase cost of bitumen as per adequacy was not available, the total purchase cost as per hand receipt was taken.

Appendix 25
Details of mineral reserves in Kerala as of March 2022
(Referred to in Paragraph 2.7.1)

| Sl. No. | Major minerals | Quantity (lakh MT) |
|----------------|---|---------------------------|
| 1 | Ilmenite | 36.34 |
| 2 | Rutile | 2.00 |
| 3 | Zircon | 4.78 |
| 4 | Sillimanite | 6.80 |
| 5 | Limestone | 83.34 |
| 6 | Monazite | 0.10 |
| | (a) Sub-total | 133.36 |
| Sl. No. | Minor minerals | Quantity (lakh MT) |
| 1 | Granite Building Stone | 4,868.26 |
| 2 | Granite Dimension Stone | 1.10 |
| 3 | Laterite (Cement) | 4.46 |
| 4 | China clay (Minor) | 52.77 |
| 5 | Silica sand | 3.15 |
| | (b) Sub-total | 4,929.74 |
| | (c) Total mineral reserves (a+b) | 5,063.10 |
| | Percentage of Minor minerals to total mineral reserves (b/c*100) | 97.37 per cent |

(Source: Data provided by DMG)

Appendix 26
Loss of revenue due to short recovery of royalty
(Referred to in Paragraph 2.7.8.1)

(₹ in lakh)

| Sl. No. | Period of extraction/sale | Quantity (MT) | Average sale price (₹) | Total sale price | Royalty leviable | Royalty levied | Short-levy |
|--------------|---------------------------|---------------|------------------------|------------------|------------------|----------------|--------------|
| 1 | 30-04-2021 to 29-05-2021 | 1000 | 622.00 | 6.22 | 1.56 | 0.95 | 0.61 |
| 2 | 24-06-2021 to 13-07-2021 | 2000 | 709.00 | 14.18 | 3.55 | 1.90 | 1.65 |
| 3 | 15-07-2021 to 08-08-2021 | 2000 | 686.50 | 13.73 | 3.43 | 1.90 | 1.53 |
| 4 | 16-08-2021 to 30-08-2021 | 1500 | 669.00 | 10.04 | 2.51 | 1.43 | 1.08 |
| 5 | 09-08-2021 to 02-09-2021 | 1000 | 643.00 | 6.43 | 1.61 | 0.95 | 0.66 |
| 6 | 27-08-2021 to 15-09-2021 | 2000 | 643.00 | 12.86 | 3.22 | 1.90 | 1.32 |
| 7 | 16-10-2021 to 14-11-2021 | 2500 | 651.00 | 16.28 | 4.07 | 2.38 | 1.69 |
| 8 | 19-11-2021 to 18-12-2021 | 2000 | 650.50 | 13.01 | 3.25 | 1.90 | 1.35 |
| 9 | 01-12-2021 to 04-01-2022 | 3000 | 637.00 | 19.11 | 4.78 | 2.85 | 1.93 |
| 10 | 29-12-2021 to 06-02-2022 | 3000 | 636.33 | 19.09 | 4.77 | 2.85 | 1.92 |
| 11 | 13-01-2022 to 26-02-2022 | 4000 | 645.50 | 25.82 | 6.45 | 3.80 | 2.65 |
| Total | | | | | | | 16.39 |

(Source: DMG records)

Appendix 27
Non-recovery of royalty and price for excess extraction of minerals
(Referred to in Paragraph 2.7.8.4)

(Quantity in lakh MT and amount in ₹ crore)

| Sl. No. | Name of lessee (with previous lease number and lease period) | District | Permitted quantity | Extracted quantity | Excess extraction | Amount recoverable | | Total |
|--------------|---|----------|--------------------|--------------------|-------------------|--------------------|-------------|--------------|
| | | | | | | Royalty | Price | |
| 1 | Shri Denny Joseph; 72/2015-16/2014/M3/2015 (10 years) | Idukki | 0.60 | 3.47 | 2.87 | 0.69 | 1.38 | 2.07 |
| 2 | Shri T. R. Raviprasad; 484/2011-12/5772/M3/2011 (9 years) | | 0.45 | 0.68 | 0.56 | 0.13 | 0.27 | 0.40 |
| 3 | Shri K. C. George; 121/2010-11/1477/M3/2010 (10 years) | | 1.80 | 0.62 | 0.47 | 0.15 | 0.30 | 0.45 |
| 4 | Cochin Blue Metals Pvt. Ltd.; 45/2009-10/2558/M3/2009 (10 years); 278/2014-15/6638/M3/2014 (5 years) | Kottayam | 5.15 | 8.90 | 3.90 | 0.94 | 1.87 | 2.81 |
| 5 | Poabs Enterprises Pvt. Ltd.; 663/2010-2-11/9943/M3/2010 (6 years); 928/2011-12/685/M3/2012 (5 years) | Kollam | 4.50 | 6.63 | 2.13 | 0.51 | 1.02 | 1.53 |
| 6 | Shri K. M. Mohammed Nazeer; 694/2005-06/1713/M3/2006 (12 years) | Kannur | 1.68 | 4.84 | 3.16 | 0.76 | 1.52 | 2.28 |
| 7 | Malabar Construction Materials Pvt. Ltd.; 13/2002-2003/311/M3/2002 (12 years); 470/2006-07/7713/M3/2006 (8 years) | | 0.33 | 4.38 | 4.05 | 0.97 | 1.94 | 2.91 |
| Total | | | | | | 4.15 | 8.30 | 12.45 |

(Source: Compiled from DMG records)

Appendix 28
Non-recovery of royalty, price, and fine
(Referred to in Paragraph 2.7.8.9)

| Sl. No. | Name of the District | Demand notice No. and date | Quantity extracted (in MT) | Type of Mineral | Royalty and Price (₹) |
|---------|----------------------|-----------------------------------|----------------------------|-----------------|-----------------------|
| 1 | HQ/ Idukki | DOI/1211/M/2016 dated 05/06/2017 | 21,650.00 | GBS | 15,58,800 |
| 2 | HQ/ Wayanad | DOW/M-108/2016 dated 27/12/2016 | 934.00 | OE | 56,040 |
| 3 | HQ/ Alappuzha | DOA/2864/MM/15 dated 05/12/2016 | 6,416.00 | OE | 3,84,960 |
| 4 | HQ/ Wayanad | DOW/M-957/15 dated 16/06/2017 | 832.00 | OE | 49,920 |
| 5 | HQ/ Kozhikode | DOZ/M-87/15 dated 19/01/2017 | 8,092.00 | OE | 4,85,520 |
| 6 | Idukki | DOI/1333/M/14 dated 25/02/2016 | 45,337.50 | GBS | 32,64,300 |
| 7 | Idukki | DOI/1211/M/2016 dated 25/03/2017 | 21,650.00 | GBS | 15,58,800 |
| 8 | Idukki | DOI/178/M/13 dated 05/12/2016 | 24,440.00 | GBS | 17,59,680 |
| 9 | Idukki | DOI/993/M/2020 dated 15/05/2021 | 6,28,223.33 | GBS | 4,52,32,080 |
| 10 | Idukki | DOI/1274/M/2009 dated 19/02/2021 | 10,83,430.70 | GBS | 7,80,07,010 |
| 11 | Idukki | DOI/404/M/16 dated 24/12/2018 | 2,10,490.00 | GBS | 1,51,55,280 |
| 12 | Thiruvananthapuram | 592/DOT/EM/2016 dated 31/10/2017 | 716 .00 | OE | 42,960 |
| 13 | Thiruvananthapuram | 1832/DOT/ML/2015 dated 11/12/2015 | 2,338.00 | GBS | 1,68,336 |
| 14 | Thiruvananthapuram | 2155/DOT/EM/2015 dated 02/05/2017 | 1,57,500.00 | OE | 31,50,000 |
| 15 | Kollam | DOQ/S2/1485/2016 dated 30/12/2016 | 6,300.00 | GBS | 4,53,600 |
| 16 | Kollam | 1362/DOQ/S2/2016 dated 01/02/2019 | 7,617.00 | OE | 4,57,020 |
| 17 | Kollam | 1319/DOQ/S2/2017 dated 16/11/2017 | 500.00 | LBS | 36,000 |
| 18 | Kollam | 99/DOQ/S2/2017 dated 28/03/2017 | 3,120.00 | OE | 1,87,200 |
| 19 | Kollam | DOQ/S2/1485/2016 dated 30/12/2016 | 1,035.00 | GBS | 74,520 |
| 20 | Kollam | 502/DOQ/S2/2018 dated 10/11/2020 | 2,376.00 | OE | 1,42,560 |
| 21 | Kollam | 1435/DOQ/S2/2016 dated 07/11/2017 | 2,210.00 | OE | 1,32,600 |

| Sl. No. | Name of the District | Demand notice No. and date | Quantity extracted (in MT) | Type of Mineral | Royalty and Price (₹) |
|--------------|----------------------|------------------------------------|----------------------------|-----------------|-----------------------|
| 22 | Kollam | 1435//DOQ/S2/2016 dated 07/11/2017 | 2,376.00 | OE | 1,42,560 |
| 23 | Kollam | 781/DOQ/S2/2017 dated 29/05/2017 | 24,192.00 | OE | 14,51,520 |
| 24 | Kollam | 969/DOQ/S2/2017 dated 15/02/2018 | 8,000.00 | OE | 4,80,000 |
| 25 | Kollam | 1846/DOQ/S2/2016 dated 13/09/2017 | 960.00 | GBS | 69,120 |
| 26 | Kollam | Form – II dated 09/04/2018 | 7,460.00 | GBS | 5,37,120 |
| Total | | | | | 15,50,37,506 |

(Source: DMG records)

OE = Ordinary Earth

GBS = Granite Building Stone.

Appendix 29
Quantity of illegal extraction for which penalty of ₹25,000 each was imposed
(Referred to in Paragraph 2.7.10)

| Sl. No. | Name of offender (Shri/Smt.) | District/Office | Demand Notice No. (and date) | Quantity (MT) |
|---------|------------------------------|--------------------------------|----------------------------------|---------------|
| 1 | Thankamony Nair | Ernakulam | DOE/1258/E1/16 (01-11-2016) | 481 |
| 2 | Santhosh Paul | | DOE/1042/E1/16 (22-10-2016) | 1,000 |
| 3 | Hajara | | DOE/2635/16 (date not available) | 3,864 |
| 4 | Abdul Rahim | | DOE/2971/E1/16 (08-02-2017) | 2,893 |
| 5 | Shiju and Cicily | | DOE/493/E1/17 (06-06-2017) | 43,175 |
| 6 | K. A. Paulose | | DOE/1132/E2/16 (25-05-2017) | 1,84,040 |
| 7 | Thomas | Kottayam | 528/DOY/ML/2017 (24-07-2017) | 2,424 |
| 8 | Vysakh R. and Beena R. | | 1713/DOY/EM/2017 (11-10-2017) | 1,69,066 |
| 9 | Aniyan Mathew | Mineral Squad (Central Region) | 206/KMS(CR)/2016 (30-11-2016) | 3,31,451 |

(Source: DMG records)

Appendix 30
Non-recovery of market rate for unlawful extraction and disposal of minor minerals
(Referred to in Paragraph 2.7.10)

| Sl. No. | District | Name | Demand Notice No. and date | Qty. (MT) | Price recovered by DMG @ ₹48/MT | Market Rate (₹ per MT) | Price at Market Rate (₹) | Difference (₹) |
|---------|----------|--------------------------------------|--|-------------|---------------------------------|------------------------|--------------------------|----------------|
| 1 | Idukki | Shri Chacko Mathew | 300/18-19/DOI/404/M/16 dtd.24.12.2018 | 84,196.00 | 40,41,408 | 644.00 | 5,42,22,224 | 5,01,80,816 |
| 2 | Idukki | Greenworth Infrastructures Pvt. Ltd. | DOI/993/M/2020 dtd.12.07.2021 | 6,28,223.33 | 3,01,54,720 | 580.79 | 36,48,65,827 | 33,47,11,108 |
| 3 | Idukki | Shri A.A.Jafer, Anakettiparambil | DOI/1211/M/2016 dtd.25.03.2017 | 21,650.00 | 10,39,200 | 512.44 | 1,10,94,326 | 1,00,55,126 |
| 4 | Idukki | Shri Riyas K Seethi, | 101/18-19/DOI/1333/M/14 dtd.21.05.2018 | 45,337.50 | 21,76,200 | 644.00 | 2,91,97,350 | 2,70,21,150 |
| 5 | Kollam | L Saiju, Akkavila Sajinan. | 3435/DOQ/S2/2017 dt.03.01.2022 | 7,567.50 | 3,63,240 | 580.79 | 43,95,128 | 40,31,888 |
| 6 | Kollam | Krishnamoorthi | 554/DOQ/S2/2017 dt.03.09.2021 | 1,35,515.00 | 65,04,720 | 580.79 | 7,87,05,756 | 7,22,01,037 |
| 7 | Kollam | Joseph Jacob, Poabs. | 2804/DOQ/S2/17 dt.17.03.2022 | 18,223.00 | 8,74,704 | 580.79 | 1,05,83,736 | 97,09,032 |
| 8 | Kollam | VI Kuriachan, EG Granites, | 3403/DOQ/S2/2008 dt.05.07.2017 | 6,07,140.00 | 2,91,42,720 | 512.44 | 31,11,22,821 | 28,19,80,102 |
| 9 | Kollam | Tesna Mines | 2879/DOQ/S2/2018 dt.16.08.2021 | 23,810.00 | 11,42,880 | 580.79 | 1,38,28,609 | 1,26,85,730 |

| Sl. No. | District | Name | Demand Notice No. and date | Qty. (MT) | Price recovered by DMG @ ₹48/MT | Market Rate (₹ per MT) | Price at Market Rate (₹) | Difference (₹) |
|---------|--------------------|---|------------------------------------|-------------|---------------------------------|------------------------|--------------------------|----------------|
| 10 | Kollam | Tesna Mines | 2879/DOQ/S2/2018 Dt.15.11.2021 | 17,357.50 | 8,33,160 | 580.79 | 1,00,81,062 | 92,47,902 |
| 11 | Thiruvananthapuram | S Biju, | 791/DOT/ML/2017 dtd.29.11.2019 | 1,06,600.00 | 51,16,800 | 638.17 | 6,80,28,922 | 6,29,12,122 |
| 12 | Thiruvananthapuram | Ushadevi P, | 4033/DOT/ML/2015 dtd.15.09.2020 | 4,53,900.00 | 2,17,87,200 | 625.52 | 28,39,23,528 | 26,21,36,328 |
| 13 | Thiruvananthapuram | Binu Thomas | 4033/DOT/ML/2015 dtd.15.09.2020 | 73,500.00 | 35,28,000 | 625.52 | 4,59,75,720 | 4,24,47,720 |
| 14 | Thiruvananthapuram | Krishnamoorthy | 4033/DOT/ML/2015 dtd.15.09.2020 | 67,950.00 | 32,61,600 | 625.52 | 4,25,04,084 | 3,92,42,484 |
| 15 | Thiruvananthapuram | Krishnamurthi, Ushadevi & Binu Thomas | 4033/DOT/ML/2015 dtd.15.09.2020 | 3,60,825.00 | 1,73,19,600 | 625.52 | 22,57,03,254 | 20,83,83,654 |
| 16 | Thiruvananthapuram | Krishnamurthi, | 4033/DOT/ML/2015 dtd.06.05.2020 | 30,100.00 | 14,44,800 | 625.52 | 1,88,28,152 | 1,73,83,352 |
| 17 | Thiruvananthapuram | Somasekharan Nair, | 1063/DOT/ML/2021 dtd.25.03.2021 | 45,231.53 | 21,71,113 | 625.52 | 2,82,93,227 | 2,61,22,114 |
| 18 | Thiruvananthapuram | Vijayamohanam, | 1433/DOT/ML/2019 dtd.16.02.2022 | 1,29,367.25 | 62,09,628 | 580.79 | 7,51,35,205 | 6,89,25,577 |

| Sl. No. | District | Name | Demand Notice No. and date | Qty. (MT) | Price recovered by DMG @ ₹48/MT | Market Rate (₹ per MT) | Price Market Rate (₹) | at Rate | Difference (₹) |
|---------|--------------------|------------------------------------|--------------------------------|-------------|---------------------------------|------------------------|-----------------------|---------|----------------------|
| 19 | Thiruvananthapuram | Lijo Mathew, Delta M Sand Pvt Ltd. | 350/DOT/ML/2020 dtd.14.02.2020 | 2,39,721.30 | 1,15,06,622 | 638.17 | 15,29,82,942 | | 14,14,76,320 |
| 20 | Thiruvananthapuram | Delta MSand Pvt. Ltd. | 173/DOT/ML/2021 dtd.21.06.2021 | 81,700.00 | 39,21,600 | 580.79 | 4,74,50,543 | | 4,35,28,943 |
| | | Total | | | 15,25,39,914 | | 187,69,22,416 | | 172,43,82,505 |

(Source: DMG records)

Appendix 31
Location co-ordinates of sites where suspected illegal quarrying in
adjacent lands was noticed
(Referred to in Paragraph 2.7.13.2)

| Sl. No. | Latitude and longitude co-ordinates | Remarks | District |
|---------|-------------------------------------|---|----------|
| 1 | 9°45'27.40"N and 76°36'52.81"E | Close proximity to quarry with KOMPAS ID KOT/Q/2022/150 | Kottayam |
| 2 | 9°45'26.02"N and 76°36'56.53"E | | |
| 3 | 9°45'23.54"N and 76°36'54.31"E | | |
| 4 | 9°42'08.64"N and 76°34'00.45"E | Close proximity to quarry with KOMPAS ID KOT/Q/2015/36 | |
| 5 | 9°42'00.13"N and 76°33'54.16"E | | |
| 6 | 9°41'55.25"N and 76°33'50.02"E | | |
| 7 | 9.36.50.10"N and 76.49.18.59"E | No proximity to an existing quarry | |
| 8 | 9.44.59.00"N and 76.44.56.25"E | | |
| 9 | 8°48'07.74"N and 76°56'13.15"E | No proximity to an existing quarry | Kollam |
| 10 | 8°48'03.82"N and 76°56'20.30"E | | |
| 11 | 8°48'04.53"N and 76°56'34.22"E | | |
| 12 | 8°48'06.86"N and 76°56'44.63"E | | |
| 13 | 8°47'49.40"N and 76°57'05.18"E | | |
| 14 | 8°47'43.28"N and 76°56'49.38"E | | |
| 15 | 8°47'36.41"N and 76°57'06.58"E | | |
| 16 | 8°47'24.33"N and 76°57'02.46"E | | |
| 17 | 8°48'21.49"N and 76°55'53.06"E | | |
| 18 | 8°46'41.28"N and 76°59'36.49"E | | |
| 19 | 8°58'02.77"N and 76°58'33.91"E | | |
| 20 | 8°58'01.70"N and 76°58'52.47"E | | |
| 21 | 8°57'40.93"N and 76°59'05.01"E | | |
| 22 | 8°58'08.28"N and 76°58'11.62"E | | |
| 23 | 9°02'09.72"N and 76°54'54.82"E | | |

| Sl. No. | Latitude and longitude co-ordinates | Remarks | District |
|---------|-------------------------------------|--|--------------------|
| 24 | 9°02'29.07"N and 76°47'38.52"E | | |
| 25 | 8°47'55.44"N and 76°57'49.18"E | | |
| 26 | 9°02'36.66"N and 76°47'37.12"E | | |
| 27 | 9°02'38.74"N and 76°47'32.69"E | | |
| 28 | 9°02'35.09"N and 76°47'30.31"E | | |
| 29 | 9°02'40.04"N and 76°47'08.60"E | | |
| 30 | 9°02'34.64"N and 76°47'04.45"E | | |
| 31 | 9°04'07.79"N and 76°46'54.01"E | | |
| 32 | 9°05'53.25"N and 76°46'01.99"E | | |
| 33 | 9°05'41.39"N and 76°46'00.72"E | | |
| 34 | 8°53'21.40"N and 76°46'46.75"E | Close proximity to quarry with KOMPAS ID KOL/Q/2018/258 | |
| 35 | 8°53'13.13"N and 76°46'52.62"E | | |
| 36 | 8°53'44.58"N and 76°46'33.97"E | | |
| 37 | 8°47'28.56"N and 76°59'25.10"E | Close proximity to quarry with KOMPAS ID KOL/Q/2019/278 | |
| 38 | 8°36'03.02"N and 76°54'06.03"E | No proximity to an existing quarry | Thiruvananthapuram |
| 39 | 8°27'39.79"N and 77°01'27.22"E | Close proximity to quarries with KOMPAS IDTHI/Q/2015/80, THI/C/2017/44, THI/D/2017/46 | |
| 40 | 8°28'06.71"N and 77°01'25.41"E | Close proximity to quarries with KOMPAS ID THI/Q/2015/83, THI/C/2017/23, THI/D/2017/45 | |
| 41 | 8°27'59.74"N and 77°01'16.88"E | Close proximity to quarry with KOMPAS ID THI/Q/2015/84 | |
| 42 | 8°28'18.35"N and 77°01'19.28"E | Close proximity to quarry with KOMPAS ID THI/Q/2015/83 | |
| 43 | 8°28'19.51"N and 77°01'13.86"E | | |
| 44 | 8°28'23.77"N and 77°01'18.22"E | | |
| 45 | 8°28'27.50"N and 77°01'09.69"E | | |
| 46 | 8°30'30.36"N and 77°02'53.17"E | Close proximity to quarry with KOMPAS ID THI/Q/2018/213 | |
| 47 | 8°37'56.93"N and 76°51'06.37"E | Close proximity to quarry with KOMPAS ID THI/Q/2021/292 | |
| 48 | 11°37'58.46"N and 76°02'08.02"E | In close proximity to quarry of MMT Construction | Wayanad |

| Sl. No. | Latitude and longitude co-ordinates | Remarks | District |
|---------|-------------------------------------|---|----------|
| 49 | 11°37'57.62"N and 76°02'09.81"E | | |
| 50 | 11°37'59.67"N and 76°02'05.70"E | | |
| 51 | 11°37'51.00"N and 76°02'09.64"E | | |
| 52 | 11°35'25.36" N and 76°02'18.18" E | Proximity to quarry measuring 4069 square metre | |
| 53 | 11°35'52.43"N and 76°02'32.50"E | Proximity to an existing quarry | |
| 54 | 11°37'05.94"N and 76°02'21.03"E | Proximity to an existing quarry | |
| 55 | 11°37'13.89"N and 76°02'26.91"E | No proximity to an existing quarry | |
| 56 | 11°38'11.76"N and 76°12'31.64"E | Proximity to an existing quarry | |
| 57 | 11°38'20.18"N and 76°11'56.22"E | No proximity to an existing quarry | |
| 58 | 11°37'12.04"N and 76°02'13.52"E | No proximity to an existing quarry | |
| 59 | 9°53'03.32"N and 76°44'59.92"E | Proximity to quarries with KOMPAS ID IDU/D/2017/8, IDU/C/2018/65, IDU/C/2017/35 and IDU/D/2018/39 | Idukki |
| 60 | 9°54'19.52"N and 76°38'30.54"E | No proximity to an existing quarry | |
| 61 | 9°55'04.94"N and 76°37'50.11"E | No proximity to an existing quarry | |
| 62 | 9°54'02.03"N and 76°35'50.20"E | Proximity to an existing quarry | |
| 63 | 9°51'03.96"N and 76°39'14.83"E | Proximity to an existing quarry | |
| 64 | 9°56'47.71"N and 76°56'12.63"E | Proximity to quarries with KOMPAS ID IDU/D/2017/3 and IDU/C/2017/32 | |
| 65 | 9°56'41.67"N and 76°56'23.13"E | No proximity to an existing quarry | |
| 66 | 9°53'18.06"N and 77°12'58.17"E | Proximity to quarries with KOMPAS ID IDU/C/2016/25 and IDU/D/2018/61 | |
| 67 | 11°46'48.02"N and 75°37'27.76"E | Proximity to quarry with KOMPAS ID KAN/Q/2017/164 | Kannur |
| 68 | 11°46'57.79"N and 75°37'25.27"E | | |
| 69 | 11°47'04.11"N and 75°37'35.68"E | | |
| 70 | 11°47'14.01"N and 75°37'50.22"E | Proximity to KAN/Q/2016/86 | |
| 71 | 11°47'23.67"N and 75°38'03.12"E | | |
| 72 | 11°47'19.35"N and 75°38'06.92"E | | |

| Sl. No. | Latitude and longitude co-ordinates | Remarks | District |
|---------|-------------------------------------|--|----------|
| 73 | 11°47'49.23"N and 75°38'19.34"E | Proximity to quarries with KOMPAS ID KAN/C/2017/113, KAN/D/2015/4, KAN/C/2018/125, KAN/D/2017/97, KAN/D/2015/27 and KAN/D/2015/19, | |
| 74 | 11°47'56.78"N and 75°38'08.41"E | | |
| 75 | 11°47'58.87"N and 75°38'18.24"E | | |
| 76 | 11°48'18.04"N and 75°38'07.91"E | | |
| 77 | 11°50'01.05"N and 75°37'52.91"E | Proximity to quarry KAN/Q/2016/61 | |
| 78 | 11°51'29.50"N and 75°36'55.91"E | Proximity to quarries with KOMPAS ID KAN/Q/2016/111 and KAN/Q/2016/93 | |
| 79 | 11°52'43.38"N and 75°35'26.35"E | No proximity to an existing quarry | |
| 80 | 11°56'03.05"N and 75°31'23.56"E | Proximity to quarry KAN/D/2019/237 | |
| 81 | 11°56'15.30"N and 75°31'31.74"E | Proximity to quarry KAN/C/2018/126 | |
| 82 | 11°56'20.76"N and 75°31'35.46"E | Proximity to quarries KAN/C/2018/126 and KAN/C/2018/123 | |
| 83 | 11°56'30.76"N and 75°31'12.28"E | Proximity to quarry KAN/Q/2018/205 | |
| 84 | 12°04'29.39"N and 75°28'56.69"E | No proximity to an existing quarry | |
| 85 | 12°03'31.71"N and 75°28'33.46"E | Proximity to quarry KAN/Q/2018/177 | |
| 86 | 12°03'56.55"N and 75°26'26.76"E | Proximity to quarry KAN/Q/2018/209 | |
| 87 | 12°06'25.31"N and 75°26'11.90"E | Proximity to quarry KAN/Q/2018/195 | |
| 88 | 12°03'20.84"N and 75°37'46.25"E | Proximity to quarries KAN/Q/2016/63, KAN/Q/2016/37 and KAN/Q/2016/66. | |
| 89 | 12°03'24.95"N and 75°28'31.76"E | Proximity to quarry KAN/Q/2018/177 | |

(Source: KOMPAS data and Google Earth Pro imagery)

Appendix 32
Illegal mining outside permitted quarrying area
(Referred to in Paragraph 2.7.13.3)

| Sl. No. | KOMPAS ID | District | Permitted area of mining as per KOMPAS (square metre) | Area mined outside permitted area | |
|---------|-----------------------------------|--------------------|---|-----------------------------------|--|
| | | | | (square metre) | (percentage in excess of permitted area) |
| 1 | KOT/Q/2015/2 | Kottayam | 34780 | 31708 | 91.17 |
| 2 | KOT/Q/2022/150 | | 9151 | 1721.23 | 18.81 |
| 3 | KOT/Q/2015/1 | | 55665 | 137164 | 246.41 |
| 4 | KOT/Q/2017/99 | | 16931 | 147859 | 873.30 |
| 5 | KOT/Q/2015/36; KOT/Q/2018/120 | | 4024 | 4486.88 | 111.50 |
| 6 | PAT/Q/2018/138 | Pathanamthitta | 14957 | 5420 | 36.24 |
| 7 | KOL/Q/2018/255 | Kollam | 40860 | 8929 | 21.85 |
| 8 | KOL/Q/2018/258 | | 38298 | 75202 | 196.36 |
| 9 | KOL/Q/2020/284 | | 158997 | 39178 | 24.64 |
| 10 | KOL/Q/2019/278 | | 22652 | 47283.96 | 208.74 |
| 11 | IDU/Q/2015/2 | Idukki | 85614.06 | 107620.54 | 125.70 |
| 12 | IDU/Q/2019/67 | | 46418.10 | 18514.82 | 39.89 |
| 13 | IDU/Q/2021/70; IDU/Q/2018/59 | | 33691.87 | 77190.70 | 229.11 |
| 14 | IDU/Q/2015/36 | | 6252.10 | 26720.78 | 427.39 |
| 15 | THI/Q/2015/80 | Thiruvananthapuram | 22627.61 | 57630.62 | 254.69 |
| 16 | THI/Q/2015/26 | | 8813.49 | 73712.57 | 836.36 |
| 17 | THI/Q/2018/213 | | 10630.18 | 33324.58 | 313.49 |
| 18 | THI/Q/2018/189 | | 61602 | 7219 | 11.72 |
| 19 | KAN/Q/2017/164 | Kannur | 31870.43 | 41680.23 | 130.78 |
| 20 | KAN/Q/2015/10 | | 7600.60 | 38609.66 | 507.98 |
| 21 | KAN/Q/2015/9; KAN/Q/2020/309 | | 21535.8 | 1234057.06 | 5730.26 |
| 22 | KAN/Q/2019/273 | | 7764 | 39456 | 508.19 |
| 23 | KAN/Q/2017/170 | | 13636 | 33694 | 247.10 |
| 24 | KAN/Q/2018/248; KAN/Q/2017/168 | | 44389 | 145641 | 328.10 |
| 25 | KAN/Q/2017/174 | | 14915 | 68612 | 460.02 |
| 26 | WAY/Q/2015/9 | Wayanad | 9109 | 35042 | 384.70 |
| 27 | WAY/Q/2016/52 | | 2915 | 18359 | 629.81 |
| 28 | WAY/Q/2015/3 | | 4069.91 | 8764.61 | 215.35 |
| 29 | WAY/Q/2018/72 | | 26984 | 4722 | 17.50 |

(Source: KOMPAS data and Google Earth Pro imagery)

Appendix 33
Suspected cases of mining in buffer zone
(Referred to in Paragraph 2.7.13.4)

| Sl. No. | KOMPAS ID | District | Remarks |
|---------|-----------------------------------|--------------------|--|
| 1 | KOT/Q/2015/2 | Kottayam | Extraction in area between boundary pillars 4 to 7, 9 to 14, 15 to 16, and 17 to 18. Quantity extracted was assessed at 50575 MT. |
| 2 | KOT/Q/2022/150 | | Illegal mining noticed outside boundary pillars 11 to 13 |
| 3 | KOT/Q/2015/1 | | Illegal mining noticed outside boundary pillars 1 to 3, 9 to 13, and 13 to 15. Revenue Department reported extraction of 1.56 lakh MT outside lease area. |
| 4 | KOT/Q/20177/99 | | Illegal mining noticed outside boundary pillars 1 to 4, 4 to 6, and 6 to 9. |
| 5 | KOT/Q/2015/36; KOT/Q/2018/120 | | Illegal mining noticed outside boundary pillars 1 to 4 |
| 6 | PAT/Q/2018/138 | Pathanamthitta | Illegal mining noticed in area outside boundary pillars 5, 6, 7, 8 and 9. |
| 7 | WAY/Q/2018/72 | Wayanad | Illegal mining between boundary pillars 1 to 6, and 9 to 14 |
| 8 | WAY/Q/2017/65 | | Safety zone not maintained at boundary pillars numbered 2 to 3, 4 to 5, and 5 to 1. |
| 9 | WAY/Q/2015/3 | | Safety zone not maintained around any boundary pillar (1 to 4). |
| 10 | WAY/Q/2016/52 | | Boundary pillars not marked in KOMPAS. Extraction from excess area than that allotted. |
| 11 | WAY/Q/2015/9 | | Boundary pillars not marked in KOMPAS. Extraction from excess area than that allotted. |
| 12 | KOL/Q/2018/255 | Kollam | Illegal mining noticed outside boundary pillars 7 to 9 |
| 13 | KOL/Q/2018/258 | | Illegal mining noticed outside boundary pillars 24 to 26, 26 to 4, 16 to 18, and 8 to 16 |
| 14 | KOL/Q/2020/284 | | Illegal mining noticed outside boundary pillars 22 to 2, and 3 to 5 |
| 15 | KOL/Q/2019/278 | | Illegal mining noticed outside boundary pillars 1 to 11, 11 to 18, and east side |
| 16 | KOL/Q/2019/261 | | Illegal mining noticed outside boundary pillars 3 to 6, 39 to 60, and 31 to 36 |
| 17 | THI/Q/2018/189 | Thiruvananthapuram | Illegal mining noticed outside boundary pillars 15 to 17, and 27 to 30. |
| 18 | THI/Q/2015/58 | | Illegal mining noticed outside boundary pillars 22 to 27, 4 to 13, 13 to 11, 19 to 22, and 33 to 34. |
| 19 | THI/Q/2015/80 | | Safety zone not maintained around boundary pillars 1 to 17, 21 to 23, and 23 to 1. |
| 20 | THI/Q/2015/26 | | Safety zone not maintained around any boundary pillar (1 to 6). |
| 21 | THI/Q/2018/213 | | Safety zone not maintained around any boundary pillar (numbered 1 to 9). |
| 22 | IDU/Q/2015/2 | | Safety zone not maintained around any boundary pillar (1 to 24). |
| 23 | IDU/Q/2019/67 | Idukki | Safety zone not maintained at boundary pillars 5 to 11, 15 to 18, and 21 to 1, and 1 to 5. |
| 24 | IDU/Q/2018/59; IDU/Q/2021/70 | | Safety zone not maintained at boundary pillars 1 to 3, 5 to 6, and 6 to 1 of IDU/Q/2018/59. Also, safety zone not maintained around adjacent quarry number IDU/Q/2021/70. |
| 25 | IDU/Q/2015/36 | | Safety zone not maintained around any boundary pillar (1 to 7). |
| 26 | KAN/Q/2017/164 | Kannur | Safety zone not maintained around boundary pillars 1 to 6, 9 to 13, and 13 to 1. |
| 27 | KAN/Q/2015/10 | | Safety zone not maintained around any boundary pillar (1 to 7). |
| 28 | KAN/Q/2019/273 | | Safety zone not maintained around all boundary pillars (1 to 5, and 7 to 8). |
| 29 | KAN/Q/2017/170 | | Safety zone not maintained around boundary pillars 2 to 4, 7 to 8, and 8 to 1. |
| 30 | KAN/Q/2018/248; KAN/Q/2017/168 | | Safety zone not maintained around boundary pillars 1 to 14, 27 to 32, and 32 to 1 of KAN/Q/2018/248. Also, buffer zone not maintained around boundary pillars 6 to 18, and 24 to 25 of KAN/Q/2017/168. |
| 31 | KAN/Q/2017/174 | | Buffer zone not maintained around any boundary pillar (1 to 14). |

(Source: DMG records and satellite imagery)

Appendix 34
Quarrying without bench cutting
(Referred to in Paragraph 2.7.13.5)

| Sl. No. | KOMPAS ID | District |
|---------|-----------------------------------|--------------------|
| 1 | KOT/Q/2015/2 | Kottayam |
| 2 | KOT/Q/2022/150 | |
| 3 | KOT/Q/2015/1 | |
| 4 | KOT/Q/20177/99 | |
| 5 | KOT/Q/2015/36; KOT/Q/2018/120 | |
| 6 | THI/Q/2018/189 | Thiruvananthapuram |
| 7 | THI/Q/2015/58 | |
| 8 | THI/Q/2015/80 | |
| 9 | THI/Q/2015/26 | |
| 10 | THI/Q/2018/213 | |
| 11 | PAT/Q/2018/138 | Pathanamthitta |
| 12 | WAY/Q/2018/72 | Wayanad |
| 13 | WAY/Q/2015/3 | |
| 14 | WAY/Q/2015/9 | |
| 15 | WAY/Q/2016/52 | |
| 16 | WAY/Q/2017/65 | |
| 17 | KOL/Q/2018/255 | Kollam |
| 18 | KOL/Q/2018/258 | |
| 19 | KOL/Q/2020/284 | |
| 20 | KOL/Q/2019/278 | |
| 21 | KOL/Q/2019/261 | |
| 22 | IDU/Q/2015/2 | Idukki |
| 23 | IDU/Q/2019/67 | |
| 24 | IDU/Q/2018/59; IDU/Q/2021/70 | |
| 25 | IDU/Q/2015/36 | |
| 26 | KAN/Q/2015/10 | Kannur |
| 27 | KAN/Q/2015/9; KAN/Q/2020/309 | |
| 28 | KAN/Q/2019/273 | |
| 29 | KAN/Q/2017/170 | |
| 30 | KAN/Q/2018/248; KAN/Q/2017/168 | |
| 31 | KAN/Q/2017/174 | |
| 32 | KAN/Q/2017/164 | |

(Source: KOMPAS data and Google Earth Pro imagery)

Appendix 35

Extra Expenditure due to arbitrary purchase of raw material
(Referred to in Paragraph 3.1.13)

| Year | Supplier | Quantity (Kg) | Total value of purchase | Quantity discount received (₹ in crore) | Net Value | Cost per Kg (₹) | Cost in excess of the least rate during the year (₹) | Extra Cost (₹ in crore) |
|---------|---------------------------------------|--------------------|-------------------------|---|-----------------|-----------------|--|-------------------------|
| | | | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) = (4) - (5) | (7) | (8) | (9) = (3) x (8) |
| 2017-18 | Bharat Aluminium Company Ltd – Raipur | 8,36,354 | 14.34 | 0.45 | 13.89 | 166.06 | 15.26 | 1.28 |
| 2017-18 | Hindalco Industries Ltd. (Kochi) | 80,128 | 1.25 | 0 | 1.25 | 156.18 | 5.38 | 0.04 |
| 2017-18 | National Aluminium Company Ltd. | 20,39,446 | 32.08 | 1.13 | 30.95 | 151.74 | 0.95 | 0.19 |
| 2017-18 | Vedanta Aluminium Ltd. | 5,76,804 | 9.00 | 0.30 | 8.70 | 150.79 | 0 | |
| 2018-19 | Bharat Aluminium Company Ltd – Raipur | 41,91,741 | 70.28 | 1.61 | 68.67 | 163.82 | 3.58 | 1.50 |
| 2018-19 | National Aluminium Company Ltd. | 9,20,533 | 15.43 | 0.46 | 14.97 | 162.61 | 2.37 | 0.22 |
| 2018-19 | Vedanta Aluminium Ltd. | 61,431 | 0.99 | 0.01 | 0.98 | 160.24 | 0 | |
| 2019-20 | Bharat Aluminium Company Ltd - Raipur | 4,23,207 | 6.53 | 0.18 | 6.35 | 150.10 | 8.65 | 0.37 |
| 2019-20 | Hindalco Industries Ltd. Bangalore | 22,94,062 | 34.87 | 0.87 | 34.00 | 148.21 | 6.76 | 1.55 |
| 2019-20 | National Aluminium Company Ltd. | 15,06,351 | 22.15 | 0.84 | 21.31 | 141.45 | 0 | |
| 2019-20 | Vedanta Aluminium Ltd. | 11,43,317 | 17.21 | 0.87 | 16.34 | 142.93 | 1.48 | 0.17 |
| 2020-21 | Hindalco Industries Ltd. Bangalore | 25,40,272 | 42.49 | 1.52 | 40.97 | 161.27 | 3.51 | 0.89 |
| 2020-21 | National Aluminium Company Ltd. | 21,97,527 | 35.81 | 0.91 | 34.90 | 158.80 | 1.04 | 0.23 |
| 2020-21 | Vedanta Aluminium Ltd. | 21,77,163 | 35.04 | 0.69 | 34.35 | 157.76 | 0 | |
| | Total | 2,09,88,336 | | | | | | 6.44 |

Appendix 36
Unproductive wages due to shortage of working capital
(Referred to in Paragraph 3.1.14.1)

| Irumpanam Unit | | | | | | | |
|------------------------|--|---------------------------------|--|--|--------------------------------------|---------------------------------|--|
| Year | Available labour days per annum | No. of Factory employees | Total labour hours paid @ 8 Hrs per day | Actual Productive labour hours utilized | Un-utilised labour hours paid | Labour cost per hour (₹) | Value of un-utilised labour (₹) |
| (1) | (2) | (3) | (4) | (5) | (6) = (4) – (5) | (7) | (8) = (6) x (7) |
| 2017-18 | 293 | 124 | 2,90,656 | 1,84,780 | 1,05,876 | 126.60 | 1,34,04,335 |
| 2018-19 | 293 | 124 | 2,90,656 | 2,47,712 | 42,944 | 159.48 | 68,48,543 |
| 2019-20 | 293 | 113 | 2,64,872 | 2,22,968 | 41,904 | 193.18 | 80,95,123 |
| 2020-21 | 293 | 111 | 2,60,184 | 2,15,224 | 44,960 | 157.88 | 70,98,233 |
| 2021-22 | 293 | 101 | 2,36,744 | 95,168 | 1,41,576 | 202.33 | 2,86,44,497 |
| Total | | | 13,43,112 | 9,65,852 | 3,77,260 | | 6,40,90,731 |
| Thiruvalla Unit | | | | | | | |
| 2017-18 | 293 | 141 | 3,30,504 | 1,64,952 | 1,65,552 | 157.18 | 2,60,21,463 |
| 2018-19 | 293 | 137 | 3,21,128 | 1,91,104 | 1,30,024 | 169.56 | 2,20,46,390 |
| 2019-20 | 293 | 125 | 2,93,000 | 1,58,896 | 1,34,104 | 161.59 | 2,16,69,238 |
| 2020-21 | 293 | 114 | 2,67,216 | 1,42,560 | 1,24,656 | 212.94 | 2,65,44,070 |
| 2021-22 | 293 | 106 | 2,48,464 | 1,04,080 | 1,44,384 | 210.60 | 3,04,07,862 |
| Total | | | 14,60,312 | 7,61,592 | 6,98,720 | | 12,66,89,023 |
| Grand Total | | | 28,03,424 | 17,27,444 | 10,75,980 | | 19,07,79,754 |

Appendix 37
Loss due to labour inefficiency
(Referred to in Paragraph 3.1.14.2)

| Year | Productive labour hours | Other cables | ACSR produced | Total production | | Best output per hour | Hours required for production as per best output achieved | Unproductive labour hours | Average labour rate per hour | Value of unproductive / idle labour hours (₹) | Percentage of unproductive hours on total productive labour hours | |
|------------------------|-------------------------|--------------|---------------|------------------|----------|----------------------|---|---------------------------|------------------------------|---|---|---------------|
| | | | | (3) | (4) | | | | | | | (5) = (3)+(4) |
| (1) | (2) | (3) | (4) | (Km) | | (6) | (7) | (8) = (5) / (7) | (9) = (2)-(8) | (10) | (11) = (9) x (10) | (12) |
| Irumpanam unit | | | | | | | | | | | | |
| 2017-18 | 1,84,780 | 35,979 | 15,011 | 50,990 | 0.275949 | 0.2759 | 1,84,813 | 0 | 126.60 | 0 | 0 | 0 |
| 2018-19 | 2,47,712 | 29,995 | 23,207 | 53,202 | 0.214774 | 0.2759 | 1,92,831 | 54,881 | 159.48 | 87,52,422 | 22.16 | 22.16 |
| 2019-20 | 2,22,968 | 9,291 | 20,186 | 29,477 | 0.132204 | 0.2759 | 1,06,841 | 1,16,128 | 193.18 | 2,24,33,414 | 52.08 | 52.08 |
| 2020-21 | 2,15,224 | 8,113 | 29,338 | 37,451 | 0.174009 | 0.2759 | 1,35,741 | 79,483 | 157.88 | 1,25,48,776 | 36.93 | 36.93 |
| 2021-22 | 95,168 | | | 7,961 | 0.083652 | 0.2759 | 28,855 | 66,313 | 202.33 | 1,34,17,109 | 69.68 | 69.68 |
| Thiruvalla unit | | | | | | | | | | | | |
| 2017-18 | 1,64,952 | 123 | 7,943 | 8,066 | 0.048900 | 0.2759 | 29,236 | 1,35,717 | 157.18 | 2,13,31,841 | 82.28 | 82.28 |
| 2018-19 | 1,91,104 | 585 | 12,647 | 13,232 | 0.069243 | 0.2759 | 47,961 | 1,43,143 | 169.56 | 2,42,71,327 | 74.90 | 74.90 |
| 2019-20 | 1,58,896 | 159 | 13,182 | 13,341 | 0.083961 | 0.2759 | 48,354 | 1,10,542 | 161.59 | 1,78,62,482 | 69.57 | 69.57 |
| 2020-21 | 1,42,560 | 336 | 17,133 | 17,469 | 0.122535 | 0.2759 | 63,315 | 79,245 | 212.94 | 1,68,74,430 | 55.59 | 55.59 |
| 2021-22 | 1,04,080 | | | 6,584 | 0.063259 | 0.2759 | 23,864 | 80,216 | 210.60 | 1,68,93,490 | 77.07 | 77.07 |
| TOTAL | 17,27,444 | | | 2,37,773 | | | 8,61,811 | 8,65,668 | | | 15,43,85,291 | |

Appendix 38
Loss due to sale without upward price revision clause
(Referred to in Paragraph 3.1.15.2)

| Month | Supplied Qty (km) | Rate claimed after applying price variation formula | Agreed Rate (₹) | Loss per km (₹) | Total Loss (₹) |
|--------------|--------------------------|--|------------------------|------------------------|-----------------------|
| March 2021 | 2,723.04 | 36,116.40 | 35,772 | 344.40 | 9,37,817 |
| April 2021 | 1,389.14 | 37,348.24 | 35,772 | 1,576.24 | 21,89,621 |
| May 2021 | 1,448.05 | 38,288.94 | 35,772 | 2,516.94 | 36,44,666 |
| June 2021 | 1,100.87 | 38,900.14 | 35,772 | 3,128.14 | 34,43,667 |
| Total | 6,661.10 | | | | 1,02,15,771 |

Appendix 39
Chronology of important events relating to Master Trust
(Referred to in Paragraph 3.5)

| Period | Event | Particulars |
|-------------------------------|---|---|
| June 2003 | Electricity Act, 2003 | Section 131 - Reorganisation of Board |
| September 2008 | Kerala Electricity First Transfer Scheme, 2008 | All the functions, properties and all interests, rights in properties, all rights and liabilities of the erstwhile Kerala State Electricity Board (KSEB) were vested in the State Government |
| October 2013/ January 2015 | Kerala Electricity Second Transfer Scheme (Re-vesting) | All the functions, properties and all interests, rights in properties, all rights and liabilities of the KSEB vested in the State Government were re-vested to the Company Kerala State Electricity Board Limited (KSEBL) |
| 31 October 2013 | Actuarial Valuation | Value of unfunded liability of KSEB against terminal benefits : ₹12,419 crore |
| February 2015 | Formation of Kerala State Electricity Board Limited Employees Master Pension cum Gratuity Trust | To manage the funds and to disburse the terminal benefits, pension <i>etc.</i> , thus protecting the interest of the existing pensioners and the personnel transferred to the Company |
| February 2015 | Contribution of State Government through KSEBL | ₹1,522.53 crore by way of retention of Electricity Duty from 01/04/2008 to 31/03/2012 by KSEBL |
| 2012-13 to 2017-18 | Contribution of State Government through KSEBL | ₹4,373.14 crore Out of this, only ₹1,522.53 crore was transferred to the Master Trust by KSEBL and ₹2,850.61 crore was not transferred to Master Trust. |
| | Contribution of KSEBL | ₹3,782.62 crore |
| 01 April 2017 | Two Bonds were issued by KSEBL | 1) 20 year Bond with coupon rate of 10 per cent per annum : ₹8,144 crore 2) 10 year Bond with coupon rate of 9 per cent per annum : ₹3,751 crore |
| 2018-19 to 2021-22 | Contribution of State Government through KSEBL | ₹2,554.00 crore |
| | Contribution of KSEBL | ₹4,496.66 crore |
| March 2022 | Actuarial Valuation | Liability of KSEBL towards terminal benefits - ₹35,824.13 crore |

Appendix 40(a)
Funding pattern of unfunded liability by Government of Kerala and KSEBL
(Referred to in Paragraph 3.5)

| Funded by | Particulars | Amount (₹ in crore) |
|---|---|------------------------|
| Company (Bonds issued to the Master Trust) | Twenty-year bond with a coupon rate of 10 <i>per cent</i> per annum | 8,144 |
| | Ten-year bond with a coupon rate of 9 <i>per cent</i> per annum | 3,751 |
| GoK | Through budgetary provision over a period of ten years | 524 |
| Total | | 12,419 |

Appendix 40(b)
Contribution of Government of Kerala towards Master Trust through KSEBL
(Referred to in Paragraph 3.5)

| Sl. No. | Period | Particulars | Amount (₹ in crore) |
|--------------|---------|---|------------------------|
| 1 | 2012-13 | Budgetary support towards terminal liability | 52.40 |
| 2 | 2013-14 | Budgetary support towards terminal liability and Instalment of principal and interest on bond | 296.61 |
| 3 | 2014-15 | Budgetary support towards terminal liability and Instalment of principal and interest on bond | 638.50 |
| 4 | 2015-16 | Budgetary support towards terminal liability and Instalment of principal and interest on bond | 638.50 |
| 5 | 2016-17 | Budgetary support towards terminal liability and Instalment of principal and interest on bond | 638.50 |
| 6 | 2017-18 | Instalment of principal and interest on bond | 586.10 |
| Total | | | 2,850.61 |

Appendix 41
Liability for payment of additional interest due to belated transfer of funds
for redemption of Bonds
(Referred to in Paragraph 3.5)

(₹ in crore)

| Year | Instalment amount payable on 1st April of the year | Total amount actually paid on various dates in the year | Penal interest at the rate of 24 per cent per annum from the due dates to the actual date of payment |
|--------------|--|--|---|
| 2018-19 | 1,807.70 | 1,378.04 | 256.46 |
| 2019-20 | 1,766.98 | 1,558.88 | 332.14 |
| 2020-21 | 1,726.26 | 1,737.05 | 354.82 |
| 2021-22 | 1,685.54 | 2,376.69 | 267.00 |
| Total | | | 1,210.42 |

Appendix 42
Avoidable extra expenditure
(Referred to in Paragraph 3.7)

| Sl. No. | Name of party | Quantity (in KM) | Month of supply | Price fixed in the PO (₹) | GST @ 18 per cent | Variable price calculated based on IEEMA circular (₹) | GST @ 18 per cent on updated variable price (₹) | Difference (₹) | Loss (₹) |
|---------|--------------------------|------------------|-----------------|---------------------------|-----------------------|---|---|------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 =(18 per cent of 5) | 7 | 8 =(18 per cent of 7) | 9 =(5+6) - (7+8) | 10 =(3*9) |
| 1 | Havells India LTD | 84.139 | April 2019 | 6,46,000 | 1,16,280 | 6,29,520.40 | 1,13,313.67 | 19,445.93 | 16,36,160.74 |
| 2 | Paramount Communications | 0.485 | April 2019 | 6,46,000 | 1,16,280 | 6,29,520.40 | 1,13,313.67 | 19,445.93 | 9,431.27 |
| 3 | Havells India LTD | 48.186 | May 2019 | 6,46,000 | 1,16,280 | 6,22,996.81 | 1,12,139.43 | 27,143.77 | 13,07,949.54 |
| 4 | Paramount Communications | 102.04 | June 2019 | 6,46,000 | 1,16,280 | 6,11,673.01 | 1,10,101.14 | 40,505.84 | 41,33,215.91 |
| 5 | Paramount Communications | 207.87 | July 2019 | 6,46,000 | 1,16,280 | 6,05,009.49 | 1,08,901.71 | 48,368.80 | 1,00,54,421.85 |
| 6 | Paramount Communications | 4.693 | August 2019 | 6,46,000 | 1,16,280 | 6,05,669.30 | 1,09,020.47 | 47,590.22 | 2,23,340.91 |
| | Total | 447.417 | | | | | | | 1,73,64,520.22 |