

**PMC to Implement  
Area Based Development**

# Monthly Progress Report

**Kochi Smart City**

February 2019



# Monthly Progress Report

1565/MPR- 12(12/30)/February 2019/R0

Project Management Consultant (PMC)  
to implement Area Based Development

Smart City Kochi

Cochin Smart Mission Limited, CSML

Cochin Smart Mission Limited, 10<sup>th</sup> Floor, Revenue Tower, KSHB, Opposite Ernakulam  
Boat Jetty, Ernakulam

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## EXECUTIVE SUMMARY

The smart city proposal of Kochi submitted for Smart Cities Challenges aims at integrating the Fort Kochi & Mattancherry area with Central City Area through Water Metro. Thematic areas for interventions under smart cities mission in Kochi are

- Seamless Mobility
- Reconstitution of Urban Form
- World Class Urban Services & Inclusive Development
- Revival of Identity and Culture

The Smart City proposal of Kochi has adopted retrofitting as the strategy for development under the Mission. The vision for Kochi is to transform Kochi, into a sustainable, inclusive and economically vibrant city of opportunities with efficient urban services, traditional hospitality and smart governance.

### a) Area Based Development (ABD) projects

There are 71 ABD area projects under 18 modules worth a total cost of Rs. 1362.01 Crores. Area Based Development (ABD) as part of Smart City development consists of parts of five wards west Kochi (1,2,3,4 and 5) and parts of three wards of mainland of KMC (62,66 & 67), with a total area of 1024.16 acres. The overall status of ABD projects is as follows:

(Amount Rs. in crore)

Source of Fund	No of Projects	Project Expenditure	Sum of Project Estimated Cost (If any) or SCP cost	Project Expenditure
<b>SCM</b>				
Project Under Implementation	2	2.47	14.7	2.47
Project Awarded	4	0.00	112.11	
Tender Issued	19	0.00	452.59	
DPR Under Preparation	22	0.00	245.22	
DPR to be prepared	15	0.00	185.76	
Tender Cancelled	1	0.00	4.9	
DPR Prepared	4	0.00	9.15	
<b>SCM Total</b>	<b>67</b>	<b>2.47</b>	<b>1024.43</b>	<b>2.47</b>
<b>PPP</b>				
Project Completed	1	25.00	25	25
Project Under Implementation	1	1.50	10	1.5
Tender Issued	1	0.00	301.58	
DPR Prepared	1	0.00	3	26.5
<b>PPP Total</b>	<b>4</b>	<b>26.50</b>	<b>339.58</b>	
<b>Other Sources</b>				
Project Completed	2	3.92	4.78	3.92
Project Under Implementation	4	2.78	55.02	2.78
Tender Issued	2	0.00	96	
DPR to be prepared	11	0.00	774	

Source of Fund	No of Projects	Project Expenditure	Sum of Project Estimated Cost (If any) or SCP cost	Project Expenditure
Other Sources Total	19	6.70	929.8	6.70
Grand Total	90	35.67	2291.81	35.67

Note: \* As data received from Tourism dept. and KWA

**Total Project Cost**  
Rs 2,291.81 cr

**Central Assistance Approved**  
Rs. 500 cr

**Central Assistance Released**  
Rs. 196 cr  
**State Grant Released**  
Rs 200 cr

**Revised Project Cost- SPV**

Projects	67
Cost	Rs. 1362.01 cr

**Tender Issued (Ongoing)- SPV**

Projects	20
Cost	Rs. 754.18 cr

**Work Order issued/Project yet to start - SPV**

Projects	4
Cost	Rs. 112.1 cr

**Projects under implementation- SPV**

Projects	3
Cost	Rs. 24.7 Cr

**Work Completed- SPV**

Projects(PPP)	1
Cost	R. 25 cr



# 1 STATUS AS ON 28<sup>TH</sup> FEBRUARY 2019

In the month of February, the Smart city team was primarily working on the preparation and submission of RFP for the Smart Pole, Tourism Projects, Calvathy School, Public Toilets Sewerage and MLCP at Kacheripady projects, revision in cost estimation and BoQ preparation for Hospital and School projects based on revised architectural and structural plan along with cost estimation of Tourism project and Public Toilets. DPR of Sewerage project, Signages, MLCP at Kacheripady, OAT, Development of Dutch palace have been submitted. DPR for Intelligent Surveillance system along with several other projects are in line with progress.

The status of projects under Smart city is given below;

Table 1-1: Status of Projects in progress

SI No	Project Name	Cost in INR Cr.	Status	Date of Submission of Feasibility Report to CSML	Date of Submission of DPR to CSML
1.	Smart Water solutions Smart Metering and smart valves for approx. 1000 Connections for selected area to link with IC4	4.00	DPR preparation under progress.		
2.	Rainwater structures in 13 Govt bldgs & Institutions	0.75	Feasibility Report submitted	21-03-2018	
3.	Improvements to sewer collection system for West Kochi	154.50	DPR Submitted Tender will be floated by 7 <sup>th</sup> March 2019	07-02-2018/ 11-09-2018	20-02-2019/ 28-02-2019
4.	Improvements to sewer collection system for Mainland	57	Renamed - As Elamkulam STP INR 13 Cr. taken up by KWA. Scope for mainland to be confirmed by KWA		
5.	Development of Other Roads in Ernakulam ABD Area	36.30	Project Re-tender	10-08-2019	30-08-2019
6.	Development of Other Roads in West Kochi under Smart City Mission	60.20	Project Re-tender	10-08-2019	30-08-2019
7.	Development of Smart Roads in Ernakulam under Smart City Mission	52.40	Project Re-tender	10-08-2019	30-08-2019
8.	Development of Smart Roads Roads in West Kochi under Smart City Mission	24.50	Project Re-tender	10-08-2019	30-08-2019
9.	Development of Smart Roads electrical infrastructure in Ernakulam & West Kochi under Smart City Mission	58.60	Project Re-tender	10-08-2019	30-08-2019
10.	MLCP and at Kacheripady	6.16	DPR Submitted Tender will be floated by 7 <sup>th</sup> March 2019	06-02-2018/ 07-10-2018	07-02-2019
11.	Commercial complex at Kacheripady	25.85			
12.	MLCP at GCDA	10.00	DPR under preparation		
13.	MLCP at KTDA	7.00	DPR under preparation		
14.	Smart Parking Solutions in ABD area	1.00	DPR under preparation		
15.	Intelligent Traffic Management Systems (ITMS)	26.9	LOA issued	02-02-2018	06-02-2018

SI No	Project Name	Cost in INR Cr.	Status	Date of Submission of Feasibility Report to CSML	Date of Submission of DPR to CSML
16.	Signages	2.4	DPR Submitted	15-02-2019	18-02-2019
17.	Escalator FOBs	2.4	Feasibility report under preparation		
18.	Implementation of Smart LED lighting in ABD area	26.9	Tender has been floated.	12-02-2018	17-02-2018
19.	Smart Poles (PPP)	301.88	DPR submitted RFP submitted for approval. Tender will floated by 8 <sup>th</sup> March	08-02-2018/ 01-03-2018	15-11-2018/ 08-02-2019
20.	Solar panels in Govt. buildings	5.70	Contract awarded. Project under implementation.	02-02-2018	07-02-2018
21.	Solar panels in public places (Canals, parks etc)	10.78	Concept stage		
22.	Smart & Improved Secondary Storage & Transportation of Solid Waste using Portable Compactor Technology	4.4	Tender stage. Technical Bid opened & under evaluation.	14-02-2018	20-03-2019
23.	Smart & Improved Battery-Operated Tricycles for Primary Waste Collection at West Kochi & Ernakulam in ABD Area	1	DPR submitted	26-02-2018	28-02-2018
24.	Smart & Improved Mechanised Street Sweeping at West Kochi & Ernakulam in ABD area	3.2	Tender stage. Technical Bid opened & under evaluation.	20-03-2018	20-03-2018
25.	Distribution of Household Bins & Street Litter Bins for improvement of waste segregation in ABD Area	0.97	Tender stage. Technical Bid opened & under evaluation.	07-02-2018	28-02-2018
26.	5 Public toilets in West Kochi & Ernakulam	1.80	DPR Submitted. Tender will floated by 8 <sup>th</sup> March, 2019	27-09-2018	13-02-2019
27.	Development of open spaces and playgrounds	0.30	Feasibility report under preparation		
28.	Marine Drive Walkway Phase I	7.10	DPR submitted	03-11-2018	11-11-2018/ 12-02-2019
29.	Marine Drive walkway phase II	6.90	DPR under preparation	03-11-2018	
30.	Mangalavanam Eco-restoration project	1	Stakeholder to respond to concept. FR under preparation		
31.	Restoration of Mullassery canal - including linking of standardized area drains	1	Feasibility report under preparation		
32.	Restoration of Market canal - Walkways and Market square around the canal pond, Solar paneled roofs, LED Lighting, Light posts	5	Feasibility report under preparation		
33.	Restoration of Kalvathy canal and area drain improvement - Open spaces, Street furniture and landscaping features	20	Feasibility report under preparation		
34.	Restoration of Rameswaram-Kalvathy canal - Upto Cochin college – Walkways and Linking the Canal Bank Road	15	Feasibility report under preparation		
35.	Electric Feeders	5.74	Feasibility report under preparation		

SI No	Project Name	Cost in INR Cr.	Status	Date of Submission of Feasibility Report to CSML	Date of Submission of DPR to CSML
36.	Bicycle Sharing (PPP)	10	Contract awarded. Work under implementation		02-03-2018
37.	Elevated Walkways and Travelators	5.74	Feasibility report under preparation		
38.	Walkway from Ekm Jetty to Metro station	9	Word awarded Under implementaion		
39.	Integrated Command, Control and Communication Centre (IC4)	64.5	LoA has been issued	15-05-2018	20-05-2018
40.	Extend 'Smart Wi-Fi bus shelters' with LED bulbs, FM radio, USB drive slots, magazine/newspaper kiosks, mobile charger units	0.60	Scope being finalised with stakeholders		
41.	Standard Wifi Enabled Bus Stands With Commercial space development	3	Scope being finalised with stakeholders		
42.	Integrated redevelopment of Slum housing	95.6	KMC to confirm list of beneficiares and slums to be taken up		
43.	Upgradation of infrastructure in Housing through Credit linked schemes	24.35	KMC to confirm list of beneficiares. KMC to share gap funding required and final list of beneficiaries.		
44.	Construction & upgradation of 755 DUs in Thuruthy, Kalvathy & Konchery colony -SCM	4.40	Bridge & social infrastructure project proposed under SCM. Feasibility report submitted. In principle agreed in 1 December 18 meeting with DUA. Post approval of FR DPR to be prepared	27-09-2018	
45.	Broadway Street Pedestrianization	10	Feasibility report submitted DPR under preparation. KMC to share list of hawkers	15-10-2018	
46.	Ernakulam market Redevelopment	100	Feasibility report submitted DPR under preparation. KMC to share list of vendors & hawkers and also identify land for transit shops.	15-09-2019	
47.	Mattancherry spice market Redevelopment		Scope under discussion with stakeholders. Soft improvements already proposed along with road project		
48.	Standard Hawker zones in Fort Kochi + Standardize structures for "Petti Kada"	5.60	Petti kada draft design ready KMC to share final list of licensed hawkers. The Hawker Zones Project is included under Fort Kochi Beach improvements project.		

SI No	Project Name	Cost in INR Cr.	Status	Date of Submission of Feasibility Report to CSML	Date of Submission of DPR to CSML
49.	Scale up of GH into a Super-Specialty care centres (Cancer Ward)	17	LoA Issued to INKEL	10-07-2018	
50.	Integrated development of 2 Hospitals in West Kochi - Excellence in Secondary care: Fort Kochi Taluk hospital	5.5	DPR, revised DWGS, BOQ submitted. Under review . Tender will be floated by 8 <sup>th</sup> March, 2019	28-02-2018	17-03-2018/ 30-10-2018
51.	Integrated development of 2 Hospitals in West Kochi - Excellence in Secondary care: Mattancherry W&C hospital	5.25	DPR, revised DWGS, BOQ submitted. Under review Tender will be floated by 8 <sup>th</sup> March, 2019	28-02-2018	28-03-2018 13-11-2018
52.	E-health solutions for selected hospitals	3.71	LoA issued	15-09-2018	20-12-2018/ 07-02-2019
53.	CIVIL - Anganwadis and public schools Upgradation of facilities - Basic services, Libraries, Eco-toilets, Sports kits , Biogas plant, Urban farming etc	1	Feasibility report under preparation		
54.	CIVIL 1 - Kalvathy School - Higher Educational institutions Upgradation of facilities - Basic services, Libraries, Eco-toilets, Sports kits , Biogas plant, Urban farming etc	4	DPR, revised DWGS, BOQ submitted. Under review. Tender to be issued by 8 <sup>th</sup> March, 2019	28-02-2018	15-07-2018/ 03-12-2018
55.	Smart Classroom for 100 classrooms PAN city	4.9	Tendered to be cancelled by the authority	05-02-2018	09-02-2018
56.	Safety & Security CCTV surveillance	5.35	Feasibility report Submitted. DPR under preparation and will be submitted by 10 <sup>th</sup> March	21-Jan-2019	
57.	Water Ambulance	0.30	Scope being discussed with stakeholders		
58.	Upgradation of Community Centre at Mattancherry with indoor sports facilities	1	Community centre to be identified by KMC		
59.	Open Air Theatre at Fort Kochi Zonal office	1.30	DPR Submitted. Tender will be floated by 8 <sup>th</sup> March, 2019	14-Aug-18 Rev- 10-Oct-18	06-02-2019
60.	Development of Dutch palace node parking area and palace street entry	1.10	DPR Submitted. Tender will be floated by 8 <sup>th</sup> March, 2019	20-12-2018	
61.	Fort Kochi Beach Front improvements - Part A Vasco Square	1.58	DPR Submitted. Tender will be floated by 8 <sup>th</sup> March, 2019	20-12-2018	
62.	Museums of Freedom Struggle	1.20	Feasibility report Submitted.	20-12-2018	
63.	Museum of Spices	1.50		20-12-2018	
64.	Development of Ethnic Food Hub & Dutch Quay Upgradation	3.00		20-12-2018	20-02-2019

SI No	Project Name	Cost in INR Cr.	Status	Date of Submission of Feasibility Report to CSML	Date of Submission of DPR to CSML
65.	Fort Kochi Beach Front improvements - Part B Walkway & Beach	8.42		20-12-2018	
66.	Walkway Mattancherry	11.00		20-12-2018	
67.	Multimedia based Light & Sound show	5.00	Feasibility report under preparation		
68.	Art Installations in Kochi / Cultural Corridor	0.50			
69.	Developing a Water & Adventure sports centre at Marine drive	1.00	Feasibility report submitted	08-11-2018	
70.	Spatial Mapping of assets and SCADA systems for Information gathering with monitoring centres	0.40	Detailed Project Report submitted on 21 <sup>st</sup> December, 2018		21-12-2018

## 1.1 STAKEHOLDER MEETINGS CONDUCTED

Stakeholder meetings conducted in the month of February are as follows:

Table 1-2: Summary on Stakeholder Consultations by PMC team during the month of February 2019

S. No	Date of Consultation	Module Content	Stakeholder Consultation	Concerned Person in the Department	Agenda Discussion by PMC Team	Remarks
1.	01-02-2019	Water Supply	KWA	Ms Luna, AEE	Water pipelines survey	Discussion were held for the survey and the existing conditions of pipelines of selected area for the installation of Smart Water meter
2.	02-02-2019	CCTV	Police Department	Sri M.P Dinesh Commissioner of Police	Implementation of Surveillance System in Kochi	Discussion were held on the existing situation and the implementation of CCTV
3.	04-02-2019	CCTV	Police Department	Dr.J.Himendranath, Deputy Commissioner of Police	Implementation of Surveillance System in Kochi	Discussion were held on the implementation of Surveillance system in the Kochi City, DCP informed that at present Drone Surveillance is not feasible due to legal issues. He also informed that the relevant data will be provided by the police department.
4.	08-02-2019	Energy Efficiency	PWD Office	Mr. John Simil K A	Regarding the Stability Report from PWD for installing Solar Panels at Maharajas Stadium	Discussion were held for the stability report for installing solar panels at Maharajas Stadium. The officials informed that the same will be communicated later.
5.	16-02-2019	CCTV	Inspector General of Police (IG) Office, Ernakulam	Vijay Sakhare, IPS	Implementation of Surveillance System in Kochi	A presentation were made for the implementation of Surveillance system in the Kochi. The IG directed that the project should be

S. No	Date of Consultation	Module Content	Stakeholder Consultation	Concerned Person in the Department	Agenda Discussion by PMC Team	Remarks
						implemented for KMC area. He also informed to Smart City team that the officials will be appointed from Police department for the Joint survey of strategic locations and the number of cameras
6.	20-02-2019	Canal Restoration	Cochin Port Trust	The Chief Engineer Office	To submit the letter requesting the Tidal data	The letter will be sent to Dy Conservator and the same will be communicated.
7.	20-03-2019	CCTV	Inspector General of Police (IG) Office, Ernakulam	Vijay Sakhare, IPS	Intelligent Crime Surveillance System - Discussion about locations and Cameras	Discussion were held on the strategic locations and the type of cameras. The IG, Police informed that the locations will be surveyed with a week time. He also suggest to integrate the alerts from ITMS and surveillance Cameras into their existing system (MDT) Mobile Data Terminal, so that they can take immediate actions against the incident
8.	25-02-2019	Park and Open Space	Tourism Department	Ms. Kamalammal	Regarding DPR of ongoing Children's park renovation project	DPR was shared and discussed regarding smart city interventions around the site.
9.	25th February 2019	Park and Open Space	Village Office, Fort Kochi Mr. Rakesh	Mr. Rakesh	Regarding ownership details of parks and open spaces in Fort Kochi	Queries regarding ownership details of open spaces and their scope of development were clarified

## 1.2 SITE VISITS

In the month of February following site visits have been taken up by PMC:

Table 1-3 Summary of site visits conducted during the month of February 2019

Sl No	Date	Site Visited	Agenda for Site visit	Location	Notes from site visit
1.	01-02-2019	Proposed MLCP sites - GCDA, KTDC and Broadway Market	Environmental Impact Assessment	Ernakulam	Currently both the proposed locations are used as parking lots (surface/ off street parking). Both areas have Pay and Park facility, maintained by two govt. agencies. (KTDC and GCDA). The KTDC parking site has trees along the periphery
2.	02-02-2019	Public Toilets & Bridges	Preliminary site analysis	West Kochi	Visited the locations of the new bridges to be constructed in West Kochi. Met the councillors of 2 & 3 divisions.

SI No	Date	Site Visited	Agenda for Site visit	Location	Notes from site visit
					Also took some measurements for the Public toilets project.
3.	04-02-19	Bridges location	Site analysis	West Kochi	Visited the bridges locations proposed by the councillors of division 2 & 3 and verified the transportation aspect.
4.	06-02-19	Solar Project Locations	To check structural stability	Ernakulam	Visited SRV LP School, GOVT GHS & GHSS Ernakulam to check the structural stability of the buildings proposed for installing Solar panels
5.	07-02-2019	Solar Project Locations	To check structural stability	Ernakulam	Visited Panampilly HSS, Old Age Home, Technical School Thevara & Tribal Building to check the structural stability of the buildings proposed for installing Solar panels
6.	12-02-2019	Solar Project Locations	To check structural stability	Ernakulam	Visited Edapally HSS, Vennala School, Elamakkara School & Perumbotta Ground to check the structural stability of the buildings proposed for installing Solar panels
7.	14-02-19	Solar Project Locations	To check structural stability	Ernakulam	Visited PWD Rest House, KTDC Building, Libra Hotel Marine Drive, Paramara Building and RJD Building to check the structural stability of the buildings proposed for installing Solar panels
8.	15-02-19	Bridge locations	Soil Testing	West Kochi	Visited the location of new bridges at West Kochi with Soil Investigation team
9.	19-02-19	Canal Project	Survey	Mullassery Canal	Visited the locations of Mullassery canal and survey were conducted to check the feasibility and Measured the depth of Mullassery Canal were taken
10.	25-02-2019	Children's Park, Ernakulam	Preliminary site analysis	Ernakulam	The park is currently being renovated by Tourism Department. The park shares its boundaries with Marine Drive Walkway and Mullassery canal where Smart City has interventions. Hence the DPR of the renovation project was collected along with.
11.	25-02-2019	Mehboob Park, Santa Cruz Ground, Fort Kochi	Preliminary site analysis	Fort Kochi	Mehboob Park- One of the prominent children's park of the area; currently in dilapidated state. The play equipment were found corroded too. Santacruz ground- extensively being used by children for playing football. Edges need to be refined.
12.	25-02-2019	Canal Project	Bridge Clearance	West Kochi	Measured the Clearance at the Bridges across canals at West Kochi



Photographs for existing conditions of the sites visited.



Figure 1-1 Children's Park Ernakulam



Figure 1-2 Children's Park at Fort Kochi





Figure 1-3 Site for Bridges & Public Toilets



Figure 1-5 Rooftop structure of SRV LP school for installation of Solar Panels



Figure 1-6 Bridge at Thuruthy



Figure 1-7 Existing condition of Mullassery canals



Figure 1-8 Bridges across canals at West Kochi

### 1.3 BRIEF SUMMARY OF MEETINGS

#### 1. Review meeting: Smart Cities Mission - Kochi, chaired by the honourable Mayor, Kochi Municipal Corporation held on 6<sup>th</sup> February 2019 at 10:30 am

A review meeting were held for the review of projects under Kochi Smart City Mission, chaired by Hon'ble Mayor, Smt. Soumini Jian. She welcome all the invited guests including ward councillors, standing committee chairpersons, Kerala Merchants' Chamber of Commerce (KMCC), Ernakulam Market stall owners Association (EMSOA) representatives etc. and CSML officials. The discussion aimed at collecting opinions regarding project proposal and assistance required from KMC to implement the identified projects

a) Ernakulam Market: Detail discussion were held on the proposal of Ernakulam Market. Following broad suggestions were given:

- KMCC members mentioned that at present, excluding fish/ poultry section, 216 stalls are there with 212 at ground and 4 at first floor. Among them only 10- 12 shops sell stationary goods. As rest of the shops deal with perishable goods and hence it is not advisable taking them to first floor.

Smart City team clarified that these new floors are facilitated with goods lift, ramp access, etc and hence mobility would not be an issue. Also considering the municipal regulations, it is not possible to fit every stall on the ground floor as it is happening currently.

- Provision for simultaneous multiple loading and unloading activities needs be provided. Smart City team clarified that already there is provision for about 6 trucks to be parked at a time without disturbing the road and pedestrian activity, and there is scope for more truck parking bays in proposal.
- Lack of Hygiene- most important issue faced by the market- Hence, segregated provisions for poultry and fish to be considered while planning of shops. Smart City

team confirmed to make provision for ensuring sanitation in the area with support of authorities.

- Plot for relocation of existing stalls during construction phase is a key task for KMC. Smart City team has proposed that a built-up space would be preferred for transit duration in order to same time. The locations proposed for transit shelters for shops were:
  - Marine Drive Ground under GCDA. However, approval for using land allocated as open space will be a challenge.
  - It was pointed out during the presentation that Muslim school ground proposed for building transit shelters will be slightly less as may be only 75% of the existing stalls might be accommodated. Smart City team clarified that currently there are many spaces wasted in market and an organized layout would fit into an organised smaller space. In terms of moving to new location this ground will be ideal.
  - Space suggested at Kaloor- No space for auction; Very less access for heavy vehicles. This issue shall be reviewed by the Smart City team.
  - Discussion with concerned authorities shall be taken forward as all suggested plots are under the ownership of GCDA or any private authority.
  - Traffic impact after relocation also shall be assessed once the land to be used is confirmed by KMC.
  - Skywalk from Marine Drive to Market may be long walking distance- feasibility of the proposal may be evaluated. Smart City team informed that there would be entry and exit points from skywalk to Shanmugham road & Broadway, hence the skywalk would serve multiple purposes and ease of movement.
- Traffic impact of the development on the adjacent roads will be huge. Parking requirement will be very high which needs to be considered. Smart City team clarified the aim is to promote public transport as the location is well connected with Metro and buses and in future with water metro. Also Parking in GCDA is proposed. KMC to approve the same to support Ernakulam Market redevelopment.
- Car parking provision in the upper levels of market square is an option that can be developed. Smart City team confirmed that this option has been discussed and can be included in proposal.
- As there are no residence nearby, Kuttappayi road can accommodate fish stalls along canal-side. The road is found wide enough to cater the facility. Smart City team clarified that the canal is proposed to be rejuvenated and acts as a recreational open space. Hence is not envisaged for drainage purpose.
- Regarding vendors along canal-side
  - Relocation of vendors along canal also shall be considered.



- KMC to take a final decision on the hawkers and share a list of final eligible hawkers to CSML for including in the proposal.
- Side wall of the canal to be reconstructed; similarly, first two steps can be encroached for widening of the road. To which Smart City team replied that the roads are wide enough and a proper strategy with organized hawker zone is planned and encroachment is not envisaged or promoted.

**Decision taken:** Smart City Team to Proceed with Tendering to Ernakulam market proposal presented as soon as possible. Final approved list of vendors and hawkers to be shared by KMC with smart city team at the earliest to enable Smart city team to do detailing of the designs.

**b) Broadway Street Upgradation**

The smart city team explained about the proposal to KMCC & KMC that it includes Pedestrianize the Broadway street stretch in a time bound manner from 12.00 pm to 8.00 pm allowing only E-rickshaw & emergency vehicle movement. Pedestrian oriented street with partial canopy covering with regulated vehicular access. Street is proposed as no parking zone.

**Assistance required from KMC & KMCC:**

Smart city Team requested KMC & KMCC to share final list of eligible hawkers to enable Smart City team to accommodate the licensed hawkers along multi utility zone with cart size requirement. Approval of revised traffic management plan from beneficiaries, Co-ordination with all beneficiaries.

Following broad suggestions were given:

- Improvement plan of by-roads of Broadway such as cloth bazaar road, Jew street may also be included for such upgradation. Redevelopment of Mather bazar to be considered. Smart City team mentioned that some of these are covered under the 'Roads' project. Smart City team also proposed that some of these can be taken up in phase II post implementation of Broadway street upgradation based on fund availability and learnings from implementation of proposal of Broadway Street upgradation.
- At least one-way traffic to be allowed rather than restricting vehicular movement completely considering the loading & unloading requirements of the street. Smart city team clarified that the proposal is only for time bound pedestrianization hence to cater to the businesses the loading and & unloading is proposed before and after pedestrianization timings.
- Designated parking provisions also shall be provided. Smart City team further detailed that MLCPs have been proposed at KTDC plot & GCDA to meet the parking requirements. However, maximum number of visitors visit the market through public transport and auto rickshaws. Hence pick up and drop off facility from these locations by e- vehicles. Hence visitors who currently have to walk from bus stops now will have e-vehicles to drop them.

- Removal of parking facility as well as vehicular movement may critically affect the business of the street. Smart city team again mentioned that maximum number of visitors visit the market through public transport and auto rickshaws. Hence pick up and drop off facility from these locations by e- vehicles. Hence visitors who currently have to walk from bus stops now will have e-vehicles to drop them. Also, Smart city team clarified that this is a flexible proposal. Time bound pedestrianization timings can be changed. But the association may understand that both public and shop keepers are in favour for making the market walking friendly. Only there will be some hindrances that through public consultations all stakeholder should be able to manage.
- Community consultation with shop owners along Broadway can be arranged in the next week itself which was confirmed by KMCC General Secretary Mr. Mohamed Sageer.

**Decision taken:** Smart City Team to Proceed with Tendering to Broadway Street upgradation proposal presented as soon as possible. Final approved list of hawkers to be shared with smart city team at the earliest to enable Smart city team to do detailing of the designs that include allocation of hawkers in Multi utility zone.

**c) Open space corridor linking DH Ground to Mangalavanam - Improvements to Marine Drive walkway:**

Open space corridor linking project improvement is estimated at a cost of INR 6.50 Crores for phase I. Project includes surface paving, landscaping and providing street furniture such as benches, street lights, advertisement boards etc., developing boardwalks, repairing/ constructing storm water drainage trenches etc.

**Assistance required from KMC:**

Smart city Team requested KMC to share approval regarding opening of fences along the stretch at Rajendra maidan & Subhash Park, Subhash Park & Ernakulam boat jetty, Priyadarshini park.

**Decision taken:** Smart City Team to proceed with tendering as the project is good for public and to be tendered without any delay.

**d) Open Air Theatre (OAT) at Fort Kochi:**

Open Air Theatre designed for a capacity of 228 people with a built-up area of 385 sq.m. for the OAT along with additional landscaped areas, lighting and provision of green room to cater to the needs of the artists/ performers, along with toilets for an area of 48 sq.m. has been proposed in KMC's fort Kochi zonal office premises. KMC has been proposed as the office for managing the events, revenue collection and O&M. Smart city team mentioned that there is a small dilapidated building that needs to be demolished to build the proposed toilets. KMC agreed for the same.

**Assistance required from KMC:**

Smart city Team requested KMC to approve the OAT project and also confirmation regarding taking over O&M and revenue collection.

**Decision taken:** Smart City Team to proceed with tendering as the project is good for public and to be tendered without any delay.

## 1.4 PROCUREMENT PLANNED

Projects to be tendered in the March 2019

SI No	Name of the Project	Estimated Cost (INR Cr.)
1.	Sewerage System for West Kochi	154.50
2.	Intelligent Street Poles (PPP)	301.58
3.	Improvements to Marine Drive walkway Phase 1 (Open space corridor linking DH Ground to Mangalavanam)	7.10
4.	Open Air Theatre at Fort Kochi	1.10
5.	Public toilets	1.80
6.	Fort Kochi Beach Front improvements - Part A Vasco Square	1.58
7.	Upgradation of Dutch palace entry	1.10
8.	Parking projects - MLCP at Kacheripady	6.15
9.	Out Patient & Admin block, Fort Kochi taluk Hospital	4.65
10.	Out Patient & Admin block, Women & Child Hospital, Mattancherry	4.57
11.	Higher secondary block, Central Calvathy GHSS, Fort Kochi	4.67
	<b>TOTAL</b>	<b>488.6</b>

## 2 STATUS OF ABD PROJECTS

### 2.1 STATUS OF ABD PROJECTS

All costs provided are in INR lakhs in this section.

#### Module 1 Water supply

There were total of 14 projects identified under this module with serial number 1.1 to 1.14. Based on the meetings conducted with Kerala Water Authority in initial phase of the project it was suggested by the authority that KWA will implement projects 12 projects. Therefore, these projects are categorized and considered as convergence projects. In the Stakeholder's meeting, KWA has requested to take up Smart Meter project for selected area as pilot basis. Only two projects that is Rain Water Harvesting Structure and Smart Water Meter project are under scope of SPV implementation.

#### 1.1 Karuvelipady Pump house – Pumping augmentation

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.1	Karuvelipady Pump house – Pumping augmentation	100		To be taken up by KWA only after the sump and pump house/pumping mains in Karuvelipady is completed under AMRUT scheme and TS committee constituted. The AMRUT work will be completed within 15 months

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

#### 1.2 West Kochi - Extension of pipelines from Maradu to Island to be extended to West Kochi to supply 12 MLD

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.2	West Kochi - Extension of pipelines from Maradu to Island to be extended to West Kochi to supply 12 MLD	55	30	Taken up under state plan and the works are completed. Work Completed. Total Financial Progress: Rs 27.00 lakh

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list. The KWA has reported that the project has been completed.

#### 1.3 West Kochi - Replacement of pipe lines from Perumanoor to Thevara and Thoppumpady bridge to Karuvelipady

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.3	West Kochi - Replacement of pipe lines from Perumanoor to Thevara	1100	448	The reach from Thoppumpady bridge to Karuvelipady is taken up under state plan and the works are completed. Due to Road cutting issues, the reach from Perumanoor to

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
	and Thoppumpady bridge to Karuvelipady			Thevara has not been taken up by KWA. Work order issued for Rs 448.00 Work Completed. Total Financial Progress: Rs 365.00 lakh

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

#### 1.4 West Kochi - Dedicated pumping main

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.4	West Kochi - Dedicated pumping main	350		Pumping main from Karuvelipadi pump house to Kovampadam OHT will be taken up under AMRUT and the works have been awarded during Feb 2018. The work will be completed within 15 months. Work under implementation.

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

#### 1.5 West Kochi - Storage capacity augmentation in Karuvelipady sump by 1.5 million litres

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.5	West Kochi - Storage capacity augmentation in Karuvelipady sump by 1.5 million litres	800	288	Taken up under AMRUT. Work awarded on Feb 2018. 36% physical progress has been made. Financial Progress: 112.00 lakh

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

#### 1.6 West Kochi - Rejuvenation of the Three OH Tanks in the region (Modibath, Fort Kochi and Koovapadam)

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.6	West Kochi - Rejuvenation of the Three OH Tanks in the region (Modibath, Fort Kochi and Koovapadam)	75		Will be included in 24 X 7 water supply proposal for which KWA is preparing document

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

#### 1.7 West Kochi - Replacement of 20 kms of Distribution line with D.I. pipes including Road cutting charges



S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.7	West Kochi - Replacement of 20 kms of Distribution line with D.I. pipes including Road cutting charges	3500		Will be included in 24 X 7 water supply proposal for which KWA is preparing document

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

### 1.8 West Kochi - Replacement of Household connections (last mile) for across 10,000 HSCs with Smart Metering and isolation valves

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.8	West Kochi - Replacement of Household connections (last mile) for across 10,000 HSCs with Smart Metering and isolation valves	2500		Will be included in 24 X 7 water supply proposal for which KWA is preparing document

This project has been classified as **convergence project** as the project in being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

### 1.9 West Kochi - Bulk Meters and Isolation valves with remote meter reading

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.9	West Kochi - Bulk Meters and Isolation valves with remote meter reading	100		Will be included in 24 X 7 water supply proposal for which KWA is preparing document

This project has been classified as **convergence project** as the project in being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

### 1.10 Mainland - Rider line for increased water supply

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.10	Mainland - Rider line for increased water supply	1000	223	KWA has been taken up this project. Work order issued for Rs 223 lakh. Pipelines have been supplied. Road cutting sanction yet to obtain.

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

### 1.11 Mainland - Overhead Storage Reservoir + 1 Million Litre Sump + pump near Ernakulam Ground

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.11	Mainland - Overhead Storage Reservoir + 1 Million Litre Sump + pump near Ernakulam Ground	300		Will be included in 24 X 7 water supply proposal for which KWA is preparing document

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

### 1.12 Replacement of connections (last mile) for across 10,000 HSCs (Commercial and Domestic) with Smart Metering and isolation valves- Mainland

S. No		REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.12	Mainland - Replacement of connections (last mile) for across 10,000 HSCs (Commercial and Domestic) with Smart Metering and isolation valves	Replacement of connections (last mile) for across HSCs (Commercial and Domestic) with Smart Metering and isolation valves for selected Area	2000	400	Project is being taking up on Pilot basis as Requested by KWA. Details Project Report is being prepared.

In the Stakeholders meeting held on 19<sup>th</sup> September 2018 with Chief Engineer, KWA, It is decided that the Smart Water Meter project for selected area will be taken up as on pilot basis. A detail presentation was made regarding the various modules and the technologies involved in Smart Water Management to KWA. The balance work of Smart Water Meter for other ABD area will be taken up after the implementation of Pilot project.

### 1.13 Mainland - Bulk Meters and Isolation valves with remote meter reading

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.13	Mainland - Bulk Meters and Isolation valves with remote meter reading	150		Will be included in 24 X 7 water supply proposal for which KWA is preparing document

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list.

### 1.14 General - Rainwater structures in ~5000 households

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
1.14	General Rainwater structures in ~5000 households	Rainwater harvesting structures in 13 Govt. buildings	1125	75	<b>Renamed due to Scope change.</b> KMC and other stakeholders suggested that the

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
					project may be done for Govt buildings instead of households <b>DPR stage</b>

### Scope - Rainwater harvesting structures in 13 Govt buildings

A project for providing Rain Water Harvesting (RWH) Structures in 5000 households was identified under Kochi Smart City Proposal. In view of the delay in identification of beneficiaries under AMRUT, KMC proposed to implement Rain Water Harvesting for Government Buildings only under Smart City Mission as individual Households had already been taken up under AMRUT scheme. Under Smart City 39 Government buildings / offices falling under ABD area were identified. Site visits were conducted and discussions with concerned stakeholders and local councillors to understand the ground conditions, water table, recharge and storage requirements etc have taken place. Based on the study 13 buildings were finalised for provision of RWH structures. Further details such as requirement of water for cleaning, storage requirement, locations for storage tanks / recharge tanks and pipe /gutter requirements have been finalized. Among 13 buildings, storage tanks are proposed in 3 buildings. For remaining buildings recharge pits shall be constructed.

There are two options to do water harvesting in the project area. Current practice of adopting roof storm water harvesting is recommended as per Government of Kerala rules and regulations. Second option is providing water harvesting structures/pits in open ground available within building area so that storm water is collected in it to improve ground water levels. But limitation of this option is water table is just 1 m below the ground level in project area. But after analysing the existing situation, area it has been suggested to implement in the areas where bore water is in use and where enough land is available to construct harvesting structure.

Accordingly, the water harvesting structures have been proposed for 13 government buildings out of which 3 sites building water storage tanks have been proposed and 9 buildings Recharge pits and one building, pie connection is only have been proposed.

These buildings are: General Hospital, Ernakulam, Govt Girls High school, Mattancherry, Mattancherry Hospital, Law college, Ernakulam (2 nos), PWD Guest House, Ernakulam Fire station (2 nos), Court Building (2 nos), Maharaja College (2 nos), Fort Kochi Hospital, Corporation zonal office, Mattancherry (2 nos), Mattancherry Fire station (2 nos), Government Veterinary Hospital, KSHB building, Police Quarters, Mattancherry (3 nos)

Renaming of project with respect to scope change is placed for approval.

### PAN City Project- 24x7 Water Supply

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
	24 X 7 WATER SUPPLY	62100		Being taken up by KWA. Has been included in 24 X 7 water supply proposal for which KWA has submitted a concept paper. The funding is yet to be decided (ADB / KIIFB) Detailed Project Report under progress.

This project has been classified as **convergence project** as the project is being implemented by KWA. CSML/PMC will continue taking status from KWA regarding the progress made for the project as project is part of overall projects identified under SCP project list

## Module 2 UGSS

There were total of 3 projects identified under this module with serial number 2.1 to 2.3. Based on the meetings conducted with Kerala Water Authority and Kochi Municipal Corporation 2 projects are under scope of SPV implementation. Further the project "Improvements to Elamkulam STP and collection system Mainland (JNNURM scheme)" has been segregated in two projects. The project "Improvement to Elamkulam STP" has been taken up by KWA.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
2.1	Decentralized Treatment and collection system for West Kochi under ADB (Mundamveli)	Sewerage System for West Kochi	2200	14330	The Sub Module 2.1 and 2.2 will be planned together as the small-bore sewer for on-site sanitation is part of sewer collection system. These two components will not be separated as two different works for design as well as execution. The project under the module would focus on ward nos. from 1 to 5 of Kochi Corporation <b>Detailed Projects report has been submitted and Tender will be issued by 8<sup>th</sup> March, 2019</b>
2.2	Small bore sewer/ Vacuum system for onsite sanitation - Includes storage facility for treated water use for landscaping		11000		
2.3	Improvements to Elamkulam STP and collection system Mainland (JNNURM scheme)	Improvements to sewer collection system for Mainland	7000	5700	The module 2.3 involves mainly sewer collection system at mainland (central Kochi) and Improvements to Elankulam STP. Under AMRUT fund, DPR is being finalised by KWA/KMC. From the discussion with KMC, it is noted that the improvements to Elamkulam STP as well as collection system in central Kochi has also been included. Hence, this work will not be carried out under Smart City. Concept stage (In consultation with stakeholders).
		Improvement to Elamkulam STP		1300	

### Scope - Sewerage System for West Kochi

The 2<sup>nd</sup> Technical Committee Meeting has been held on 20<sup>th</sup> December, 2018 and Executive Engineer, KWA, on behalf of committee, made a presentation on their experience and technical details of vacuum system.

#### 1. Networking:

All the committee members accepted the proposal of vacuum network system for collection of sewerage. The committee observed that the technology has several advantages over the conventional system. The committee observed the following key benefits of the system.

- No leakage

- Minimal maintenance cost
- Low depth of excavation
- Can be implemented even along narrow roads

### 1. Sewage/Septage Treatment:

The committee enquired the status of land availability for treatment plant. The PMC listed the land availability details as below.

#### a) Probable STP Locations

- Vacant land near fort Kochi hospital (Area 45 Cents) ward 2 under the ownership of KMC
- Mattancherry zonal office premises (20 cents Approx) ward 5 under the ownership of KMC.

#### b) Pumping station locations

- Veli ground (26 cents) ward 1
- Thamarakkulam Park (10 cents) ward 1
- Momens Park (22 cents) ward 3

The PMC informed the committee the reservations of KMC in allotting Mattancherry zonal office premises for the construction of STP.

### 2. Recommendations

- The ABD area in west Kochi may be divided into two zones, First with ward number 1, 2 and 3 and second with ward numbers 4 and 5. The ST plant for ward number 1,2 and 3 may be constructed in the vacant land near Fort Kochi hospital (in ward number 3). Treatment plant for ward number 4 and 5 may be constructed in the Mattancherry zonal office premises. The pumping station locations may be utilized as per design requirements.
- The committee recommended to tender network and plant as a single package in EPC mode. The committee also suggested to collect suitable technology from bidders which will suit into the space availability mentioned above with separate quote for different technologies. The suitable technology can be selected through technical presentation. The committee decided to limit the technologies to 3 or 4 as listed below.
  - Sequential bed bio reactor
  - Membrane bio reactor
  - Electrolytic treatment
  - Activated sludge process
- Committee suggested to prepare detailed estimates and DPR as per the directions of the committee at the earliest.

### Module 3 NMT Roads and Pedestrianized areas

There were total of 4 projects identified under this module with serial number 3.1 to 3.4

Three projects Relaying of roads, Standard Footpaths including signages and Restoration/ Rehabilitation of Stormwater drains in the proposed area have been combined as these components are part of right of way of the road itself and for coordinated implementation need to be done together.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
3.1	Relaying of roads	Development of Other Roads in Ernakulam under Smart City Mission	4200	3630	<b>The projects have been re-tendered</b>
3.2	Standard Footpaths including signages	Development of Other Roads in West Kochi under Smart City Mission	2853	6020	
3.3	Restoration/ Rehabilitation of Stormwater drains in the proposed area		2360		
3.4	MLCP and Commercial complex at Kacheripady	MLCP at Kacheripady	5000	616	DPR Submitted. Tender will be floated by 7 <sup>th</sup> March 2019
		Commercial Complex at Kacheripady		2584	DPR under preparation
		MLCP at GCDA land at Marine Drive		1800	DPR under preparation
		MLCP at KTDC complex at Maneka			
		Smart Parking solutions at vaiorus location in ABD area			

### Scope – Access Roads

The existing internal roads are to be developed as Access roads between the smart roads for improved traffic flow within the ABD area. The scope of works in Access roads are mainly but not limited to upgradation of drainage facilities by construction of new drains, Irish drains and restoration of existing drains as per site requirements, provision of footpath (as per standards and space available) and surface improvement where ever required. The CSML intends to develop 39 Roads in Ernakulam central area (14.439 Km) and 87 Roads in Fort Kochi (30.141 Km). Landscape, hardscape and cycle lane. The various components included (but not limited to) in this area – wide footpaths, landscape corridor with trees, bus bays, on-street parking, road markings, median, improved junctions, table tops, universal accessible design by introduction of ramps, benches and planting beds, etc.

### Module 4 Main roads

There were total of 5 projects identified under this module related to roads with serial number 4.1 to 4.3. Projects 4.4 & 4.5 will be separate project.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
4.1	World class Arterial roads -- KB Jacob & Amravati Road/ Bellar Road in West/ -- Avenue, MG Rd, DH Rd, Banerjee	Development of Smart Roads Ernakulam under Smart City Mission	5,287	5240	Clubbed - Initially 3 projects. All 3 works will be done for same road stretches thus all 3 projects have been proposed to be clubbed



S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
	Rd, Abraham Madamakkal road in Central city				together. One additional road proposed by KMC & MLA Abraham Madamakkal Road added
4.2	Relaying of roads, Aesthetic and improved Urban design Pedestrian facilities with Street furniture, Boulevards and urban greenery	Development of Smart Roads in West Kochi under Smart City Mission	1650	2450	<b>Project re- tendered.</b>
4.3	Utility ducting for SWD, Water supply, Sewerage, OFC etc		3300		
4.4	Signages, Junction improvement with Intelligent Traffic management	Signages	97	240	Segregated as signages & ITMS have separate projects. Junction improvement taken up under Roads combined project. DPR has been submitted for Approval.
		Integrated Traffic Management System		2690	<b>LoA has been issued to Keltron.</b>
4.5	Escalator FOBs		240		Feasibility Stage

### Smart Roads: Construction, operation and maintenance of Smart Roads

CSML intends to develop 5 roads in Ernakulam central area (4.9 Km) and 5 Roads in west Kochi (3.2 Km) as smart roads. The scope of work includes developing the existing roads mentioned above by upgradation and augmentation of foot path, provision of cycle lanes , providing Road Markings, Street Furniture, Bus bays, Street Landscaping works, utility trenching/ducting works, Construction of new drains and restoration of existing drains as per site requirements, shifting of utilities to underground trenches, foundation for street light poles, monopoles and smart poles, installation of compact substations, individual connections through feeder pillars, smart elements and other Miscellaneous works along with operation maintenance of landscaping works.

Discussions have been held with Kerala Water Authority (KWA) and it has been requested that any related work to the 24x7 water supply project must be in sync with Roads project.

### Module 5 Energy Supply

There were total of 16 projects identified under this module with serial number 5.1 to 5.16. Based on the meetings conducted with KMC, KSEB and PWD these all projects have been combined into one as it will be implemented along with Smart Roads.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
5.1 – 5.16	Compact Secondary Substation (990 KVA) Underground HT Line Underground LT Line	Development of Electrical Infrastructure in ABD Area	12,253	5860	Clubbed with Road project.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
	LT UG for Streetlights AMR Metering - Single phase AMR Metering - Three phase AMR Metering - HT RMU with Remote terminal units Distribution panel board Installation of feeder pillars Underground Cabling - 11 KV LT UG Cabling Installation of Transformers (Compact Sub-stations) Installation of Ring Main Units with Remote terminal units Smart Meters (AMR) Installation of feeder pillars				<b>The project has been retendered.</b>

The scope of projects is to implement System Improvement & Augmentation Scheme for existing Electrical Network in various Smart Road area. The contractor's scope of work includes but not limited to: Survey, network design, manufacturing, Working testing, inspection, packing, dispatching, loading, unloading and storage at site, transit/storage and construction insurance, assembly, erection, civil structural work, complete pre-commissioning checks, testing & commissioning at site, obtaining statutory clearance & certification from State Electrical Inspectorate, Kerala State Electricity Board, Kochi Municipal Corporation etc. and handing over to the Owner after satisfactory commissioning of complete augmentation of existing Electrical Network in Cochin Smart Mission Limited Project ABD area.

## Module 6 Energy efficiency

There were total of 2 projects identified under this module with serial number 6.1 to 6.2. Based on the meetings conducted with Kerala State Electricity Board and Kochi Municipal Corporation all projects are under scope of SPV implementation.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
6.1	Solar based LED with Smart poles	Smart LED Lights in ABD area	1,250	3000	Segregated as lighting & Telecom projects Retender stage.
		Intelligent Street Poles in Kochi		30160 (PPP)	DPR submitted Tender to be issued by 7 <sup>th</sup> March, 2019
6.2	Solar panels in Households and Institutions - Grid connected	Solar panels in Govt. buildings	1,758	570	Work awarded on Nomination basis to BHEL.
		Solar panels in public places		1178	Concept stage



In module 6: Solar based LED with Smart poles has been mentioned as one single project. Smart Pole & Solar LED are two different entities hence should be considered as two different projects. Smart poles are proposed to be implemented as a PPP project.

### 2.1.1 SOLAR ROOFTOP PROJECT IMPLEMENTATION PROGRESS

Contractor mobilized 330 KW panels in the month of November 2018. Following to this BHEL started site feasibility study and other paper works in the month of December 2018. Contractor prepared structural drawings for installation 450 KW of solar panels and submitted to PMC for approval. Clearance for installation of Solar panels has been given to BHEL for 18 buildings including Court Complex. The total capacity of solar panels in these buildings is (690 + 40) KWp. PMC also verified the solar panels ( 314 KWp) supplied by BHEL for various sites. BHEL agreed to submit the drawing of each buildings complete in all respects. Module installation for 40 KWp at Govt. Hospital at Karuvelipady and for 60 KWp at PWD Guest house have been completed.

- **Fire station & General Hospital**

Installation of 40 KWp solar panels at Fire station and 70 KWp at General Hospital have been completed. Approval awaited for the same from Inspector, Electricity Department

- **High Court Complex**

Work for installation of Solar panels at Court complex is under progress.



Figure 2-1 Installation of Solar Panels at Court Complex

## Module 7 Solid waste and Sanitation

There were total of 4 projects identified under this module with serial number 7.1 to 7.4. Based on the meetings conducted with Kochi Municipal Corporation all projects are under scope of CSML implementation. Only one project was proposed to be dropped by KMC as it was not successful in earlier attempts made by Govt. Authorities.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
7.1	Equipment including Smart Street sweepers/ GPS enabled Vehicles/compactors		600		Segregated

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
		Supply, Operation and Maintenance of Portable Compactor for Secondary Storage & Transportation of Solid Waste		440	Technical Bid open. Bid evaluation under progress
		Smart & Improved Battery-Operated Tricycles for Primary Waste Collection at West Kochi & Ernakulam in ABD Area		100	DPR submitted KMC concurrence awaited
		Smart & Improved Mechanised Street Sweeping at West Kochi & Ernakulam in ABD area		320	Technical Bid open. Bid evaluation under progress
7.2	Bio-composting in all Government institutions		5		Dropped as based on previous experience KMC proposed not to take up the listed project
7.3	Household segregated bins for Organic and inorganic wastes		74	100	Technical Bid open. Bid evaluation under progress
7.4	Public toilets with Fit-in Treatment facility for Decentralized STP in West Kochi	Renovation and Upgradation of existing Public Toilet Facilities in ABD area	10	180	DPR Submitted. Tender to be issued by March 7th

## Module 8 Parks and Open spaces

There were total of 4 projects identified under this module with serial number 8.1 to 8.4. Based on the meetings conducted with Kochi Municipal Corporation, Tourism Department and forest Department all projects are under scope of SPV implementation except 8.1 which is already taken up for implementation by Tourism Dept.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
8.1	Upgradation of Nehru Park		200		Convergence - project undertaken by Tourism Department. The project is under implementation by Tourism Department.
8.2	Development of open spaces and playgrounds		30		Feasibility report under preparation.
8.3	Marine Drive walkway phase I		90	710	Feasibility Report is submitted on 3 <sup>rd</sup> November 2018. Revised DPR has been submitted on 12 Feb 2019. Tender will be issued by 8 <sup>th</sup> March, 2019
	Marine Drive walkway phase II			690	DPR under Preparation
8.4	Mangalavanam Eco-restoration project		100		Concept stage. Proposed concept shared with KMC &

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Remarks
					Forest Dept. Concurrence awaited.

## Module 9 Canal Restoration

There were total of 4 projects identified under this module with serial number 9.1 to 9.4. Based on the meetings conducted with Kochi Municipal Corporation all projects are under scope of SPV implementation.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
9.1	Restoration of Mullassery canal - including linking of standardized area drains		100		Feasibility Stage
9.2	Restoration of Market canal - Walkways and Market square around the canal pond, Solar panelled roofs, LED Lighting, Light posts		500		Feasibility Stage
9.3	Restoration of Kalvathy canal and area drain improvement - Open spaces, Street furniture and landscaping features		2,000		Feasibility Stage
9.4	Restoration of Rameswaram-Kalvathy canal - Up to Cochin college – Walkways and Linking the Canal Bank Road		1,500		Feasibility Stage

## Module 10 Urban mobility

There were total of 9 projects identified under this module with serial number 10.1 to 10.9. Based on the meetings conducted with Kochi Metro Rail Limited and Kochi Municipal Corporation 5 projects are under scope of SPV implementation and remaining 4 with KMRL – Water Metro project.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Estimated Cost	Status
10.1	Water transport infrastructure (around 12 100 Pax boats)		4,200	5600	Convergence - Being undertaken by Water Metro. DPR prepared. Tendered
10.2	Electric Feeders, Bicycle Sharing, Elevated Walkways and Travellators		1,148		Segregated
		Electric Feeders		574	Concept Stage (In consultation with stakeholders)
		Bicycle Sharing		1000 (PPP)	Locations approved by KMC. Contract to be signed
		Elevated Walkways and Travellators		574	Concept Stage (In consultation with stakeholders)

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Estimated Cost	Status
10.3	Walkway from Ekm Jetty to Metro station		900		Under implementation
10.4	Jetty improvement		800	4000	Convergence - Being undertaken by Water Metro. DPR prepared. RFP under preparation. Tendered
10.5	Property development along jetties		720		Convergence - Being undertaken by Water Metro. DPR prepared. Tendered
10.6	Boatyard and Command & Control Centre	Boatyard	2,000		Convergence - Being undertaken by Water Metro. DPR prepared. Tendered
10.7	Dredging cost		1,000		Convergence - Being undertaken by Water Metro. RFP under preparation.
10.8	Extend 'Smart Wi-Fi bus shelters' with LED bulbs, FM radio, USB drive slots, magazine/newspaper kiosks, mobile charger units		60		Concept Stage (In consultation with stakeholders)
10.9	Standard Wifi Enabled Bus Stands with Commercial space development		300		Concept Stage (In consultation with stakeholders)

## 2.1.2 PUBLIC BIKE SHARING IMPLEMENTATION PROGRESS

Sl No	Date	Site Visited	Agenda for Site visit	Location	Notes from site visit
1.	12.12.2018	West Kochi and Ernakulam	Identification of Bicycle docking stations	Locations at Fort Kochi and Mattancherry area and Ernakulam	15 locations has been identified and approved. Short notice tender for Pavement of 6 docking locations has been issued. The bid evaluation is ongoing for the under process

Cochin Smart City Mission along with KMRL appointed Hero cycles (Hexy) for implementing the Kochi Bicycle Sharing Scheme (PBS) project in Kochi Smart City ABD area and 2km on either side of the metro alignment from Aluva to Petta. In this regard, CSML has identified 15 locations for installing Cycle docking stations as Phase- 1 (13Locations in West Kochi and 2 locations in Ernakulam). The list of Identified location photographs and details submitted to Kochi Municipal Corporation (KMC) and got approval for implementing the project on 22.1.2019. Also, KMC has appointed Fort Kochi zonal office Assistant Executive Engineer as the Nodal officer for the PBS project.

Out of 15 locations, 6 locations are required fresh paving to initiate work by Hero cycles. Hence CSML has issued a short notice tender for construction of paved surface.

## Module 11 Housing

There were total of 3 projects identified under this module with serial number 11.1 to 11.3. Based on the meetings conducted with Kochi Municipal Corporation and other stakeholders below mentioned projects are under scope of SPV implementation. KMC has proposed to take up some other project in place of Upgradation of infrastructure in Housing through Credit linked schemes. CSML have revised the budget of smart city under housing module to Rs. 100/- crores.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Estimated Cost	Status
11.1	Integrated redevelopment of Slum housing		14,140	9650.00	Concept Stage (In consultation with stakeholders). Awaiting Confirmation for scope of work from KMC To provide final list of beneficiaries and slums to be taken up under SCM
11.2	Upgradation of infrastructure in Housing through Credit linked schemes		2,435		KMC proposing to revise the scope of component to "Beneficiary Led construction". Chief secretary instructed CSML to execute the complete construction preferably using prefab technology. Awaiting confirmation for scope of work and final list of beneficiaries from KMC.
11.3	Construction & upgradation of 755 DUs in Thuruthy, Kalvathy & Konchery colony	Construction & upgradation of 755 DUs in Thuruthy, Kalvathy & Konchery colony-KMC	7,424	4790	Decision taken by Chief secretary on 26 <sup>th</sup> Dec 2018 for CSML to assist KMC in completing the construction of tower 1 under RAY scheme by Gap funding only. Gap funding to be disbursed by CSML only after KMC provides revised administrative sanction from LSGD and tender out the sewage treatment facilities.
		Rejuvenation of Thuruthy through improvement of mobility links – KMC-SCM		440	Feasibility Report Submitted on 27 <sup>th</sup> September, 2018 for bridges construction. DPR under preparation

## Module 12 Economy and Employment

There were total of 2 projects identified under this module with serial number 12.1 & 12.2. Based on the meetings conducted with Kochi Municipal Corporation, KMCC, Market association and other stakeholders all projects are under scope of SPV implementation.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Estimated Cost	Status
12.1	Broadway Market and Ernakulam market Redevelopment and Mattancherry spice market		11,000		

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Estimated Cost	Status
		Broadway Street pedestrianisation	1000		Feasibility report submitted on 15 <sup>th</sup> October, 2018 DPR Stage. KMC to share list of approved licensed hawkers to be accommodated along multi utility zone proposed.
		Ernakulam Market Redevelopment	10000		Feasibility report submitted. DPR Stage. KMC to approve initiate R&R asap.
		Mattancherry spice market Redevelopment			Segregated - Feasibility stage
12.2	Standard Hawker zones in Fort Kochi	Standard Hawker zones in Fort Kochi + Standardize structures for "Petti Kada"	500	560	Segregated - Feasibility stage. KMC to share list of approved licensed hawkers Hawker zone included as part of Fort Kochi Beach upgradation.

Pedestrianisation of Broadway Street for approx. 500m stretch.

#### The proposal:

**Broadway Street Upgradation proposals proposes for a time bound Pedestrianization of 500m stretch** at an estimated cost of INR 10.0 Crores with other supporting projects including pick up/drop off facility e-vehicles from Bus stops, metro, water metro and MLCPs to offer smooth transition from parking to no parking zone.

The smart city team explained about the proposal to KMC that it includes Pedestrianize the Broadway street stretch in a time bound manner from 12.00 pm to 8.00 pm allowing only E-rickshaw & emergency vehicle movement. Pedestrian oriented street with partial canopy covering with regulated vehicular access. Street is proposed as no parking zone.

#### Assistance required from KMC:

Smart city Team requested KMC to share final list of eligible hawkers to enable Smart City team to accommodate the licensed hawkers along multi utility zone with cart size requirement. Approval of revised traffic management plan from beneficiaries, Co-ordination with all beneficiaries.

- Final approved list of hawkers to be shared with smart city team at the earliest to enable Smart city team to do detailing of the designs that include allocation of hawkers in Multi utility zone.
- KMC to hold public consultation with the shop keepers along Broadway and take formal approval for the proposed project and finalize design detail such as the canopy and road design.

#### The proposal



Ernakulam Market redevelopment proposal at an estimated cost of INR 100 Crores was presented that proposed for development of Market area with a G+3 building, Basement floor for parking, Developing market square in to a Multilevel car parking space, Solid waste compactor, Banana Auction area, etc and solid waste compactor facilities, widening of an existing bridge over market canal connecting to the market square and Skywalk.

#### Assistance required from KMC:

Smart city Team requested KMC to share final list of eligible shopkeepers with shop size requirement. Suggest on Transit shelter strategy including confirmation on alternate land for relocation, expenditure during relocation period, revision of rental rates for new building and negotiations, approval of revised traffic management plan from beneficiaries, Co-ordination with all beneficiaries.

- KMC to verify and compile final list of vendors and hawkers and share with smart city team at the earliest to enable Smart city team to do detailing of the designs
- Confirmation for land for transit shelters at the earliest.
- KMC to confirm allotment of shops by zoning. Smart city to design accordingly

### Module 13 Health

There were total of 2 projects identified under this module with serial number 13.1 & 13.2. Based on the meetings conducted with Kochi Municipal Corporation, DMO and other keyholders all projects are under scope of SPV implementation.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Estimated Cost	Status
13.1	Scale up of GH into a Super-specialty care centres	Cancer Extension Block, General Hospital.	3,000	1700 (Phase I)	LoA to INKEL has been issued.
		E-health solution for General Hospital		371	Segregated - Revised DPR has been submitted on 7 <sup>th</sup> February. LoA to Keltron has been issued.
13.2	Integrated development of 4 Hospitals in West Kochi - Excellence in Secondary care	Out Patient & Admin block, Fort Kochi taluk Hospital	1,000	550	Revised DPR, Detailed Estimate and Drawings submitted. Tender to be issue by 7 <sup>th</sup> March 2019
		Out Patient & Admin block, Women & Child Hospital, Mattancherry		524	Revised DPR submitted on 13 <sup>th</sup> November, 2108. Revised BoQ and drawings have been submitted. Tender to be issue by 7 <sup>th</sup> March

As per the Smart City Proposal the project identified is 'Scale up of GH into a Super-specialty care centres'. However, what exact scaling up was required was not proposed. Thus, the nature of upgradation was identified by CSML & PMC in numerous meetings conducted with

KMC & DMO & GH team. The initial proposal for General hospital was a W & C ward. But as General Hospital did not have enough space for building a W&C ward which was established when Smart City team started further discussions for GH proposal. Hence again after numerous discussions with GH team & then KMC the proposal was revised as Cancer ward adjacent to the Proposed cancer block by INKEL. Smart city team had had many meetings regarding this change of scope with KMC. During a discussion regarding the cancer care unit, it came up that since INKEL is already doing a project in same compound they may be awarded the proposed Cancer ward work as well to ensure consistency & continuity of work and reduce any disruptions due to two different agencies working on same company & buildings.

Cancer Extension Block, General Hospital: Projects intends to provide a dedicated cancer specialty ward block as an annex to the Existing LINAC building. The Council has given approval for Cancer Extension Block, General Hospital project on 9<sup>th</sup> October, 2018. The LOA has been issued to INKEL for the construction of Cancer Extension Block, General Hospital

Out Patient & Admin block, Fort Kochi taluk Hospital & Out Patient & Admin block, Women & Child Hospital, Mattancherry: Projects intends to provide a dedicated Outpatient department with individual consultation rooms, waiting areas and administrative block. The RFP has been submitted. Tender will be issued by the first week of the March

E- Health Solution for General Hospital: The General Hospital at Ernakulam is one of the reputed Hospital which provides effective medical care to the citizens of the Kochi Corporation and surrounding areas. General Hospital has a very old and ineffective IT infrastructure which is an impediment to its efficient functioning. This requires urgent upgradation. Concurrently e Health solution is being developed and implemented by state Health department which integrates all departments and government hospitals into an efficient Hospital Information and Management system. It's thus planned to upgrade the IT infrastructure of General Hospital under the smart city mission project. The Council has given approval for Cancer Extension Block, General Hospital project on 9<sup>th</sup> October 2018

## Module 14 Education

There were total of 2 projects identified under this module with serial number 14.1 & 14.2. Tenders were floated, and bids received from the bidders for the Smart class room project. However, KITE Mission of Government of Kerala informed that a similar project is being implemented by them on State Level thus the SPV should not continue with the selection process. Therefore, the project is put on hold.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
14.1	Upgradation of facilities - Basic services, Digital classrooms, Libraries, Eco-toilets, Sports kits, Biogas plant, Urban farming etc Anganwadis and public schools		100	100	Concept stage. Project Scope is being finalised with Stake holders
14.2	Upgradation of facilities - Basic services, Digital	Higher secondary block, Central	450	500	DPR Submitted



S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
	classrooms, Libraries, Eco-toilets, Sports kits, Biogas plant, Urban farming etc Higher Educational institutions	Calvathy GHSS, Fort Kochi			on 13.11.2108. Tender will be issued by 7 <sup>th</sup> March, 2019
		Smart Classroom for 100 classrooms PAN city		490	Segregated. Tender has been cancelled by the authority.

The Anganwadi project is being formulated. The project will include rejuvenation of AWC in Fort Kochi & Mattancherry with state-of-the-art facility for Preschool training with Mother & Child care. List of 56 AWC identified in Fort Kochi & Mattancherry from CDPO. The proposal includes following components:

- Tangible (physical) upgradation in quality of environment for AWC functioning in Govt premises,
- Smart class rooms for all AWCs.

Calvathy School project intends to provide a higher secondary block for about 240 pupils along with the labs and ancillary facilities required. The building would also provide admin office required for lower primary section.

- The proposal includes following components:
  - 4 classrooms of 60 capacity each and one digital classroom
  - Chemistry, Physics and computer labs
  - Staff rooms, admin rooms, for higher secondary & lower primary section.
  - Auditorium of 250 capacity.
- Building would be a 4-story structure of total area of 1500 sq.mt built after demolishing an existing single story old structure which is currently used as a common activity area.

The Smart education project aims to bring in state of the art education to students through classroom revolution which is to innovate education, teaching and evaluation methods, and educational environments using information Technology.

## Module 15 Safety and Security

There were total of 2 projects identified under this module with serial number 15.1 & 15.2. Based on the meetings conducted with Kochi Municipal Corporation and other stakeholders, all projects are under scope of SPV implementation.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
15.1	5 Rapid response boats for water transport safety	Water Ambulance	50		Concept stage
15.2	Drone Surveillance	Intelligent surveillance	30	585	Stakeholders proposed not to take

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
		System for Kochi			up drone project. Similar other projects are being identified. One such project is CCTV surveillance Feasibility report for CCTV has been submitted on 21 <sup>st</sup> January, 2019. DPR under preparation and will be submitted by 15 <sup>th</sup> March, 2019

Since it is learnt that KSINC is operating water ambulance, the scope needs to be discussed with the stakeholders.

### Module 16 Other Social Infrastructure

There were total of 2 projects identified under this module with serial number 16.1 & 16.2. Based on the meetings conducted with Kochi Municipal Corporation, all projects are under scope of SPV implementation.

S. No	Proposed interventions	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
16.1	Upgradation of Community Centre at Mattancherry with indoor sports facilities	100		Awaiting confirmation from KMC regarding which community centre is to be taken for upgradation work
16.2	Standardize structures for "Petti Kada"	60		Clubbed - with Hawker zone. Concept stage

The scope of project at 16.1 is yet to be clarified by KMC.

Project 16.2 has been clubbed with project number 12.2 as petti kadas will be provided for Hawker Zones identified. Broad designs have been made. After the hawkers are identified, implementation of this project will be taken up accordingly.

### Module 17 Identity and Culture

1 project identified under this module with serial number 17.1.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
17.1	Fort Kochi and Mattancherry region Master plan for Tourism		3,000		
		Open Air Theatre (OAT) at Fort Kochi Zonal office		110	Tender issued.
		Development of Dutch palace node parking area and palace street entry		110	Tender Issued.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
		Fort Kochi Beach Front improvements - Part A Vasco Square		158	Tender Issued.
		Museum of Freedom Struggle		120	Feasibility report submitted on 20 <sup>th</sup> December, 2018
		Museum of Spices history		150	
		Development of Ethnic Food Hub & Dutch Quay Upgradation		100(PPP)	
		Fort Kochi Beach Front improvements - Part B Walkway & Beach		800	
		Mattancherry Walkway		1100	
		Developing a Water & Adventure sports center at Marine drive		100	Feasibility report will be submitted on 8 <sup>th</sup> November 2018. Comments received from CSML. Feasibility report is being revised based on the comments
		Art Installations in Kochi		50	
		Multimedia based Light & Sound show		500	

The project mentioned in the SCP project list is Master plan for Tourism. Tourism Project will be taken up individually identified in the Tourism Master plan. Based on the meetings conducted with Department of Tourism, KMC and other stakeholders the projects have been identified.

### Module 18 Others

There was 1 project identified under this module with serial number 18.1. Based on the meetings conducted with MoHUA, KMC, Town Planning Dept and other stakeholders the project is under scope of SPV implementation. This project will be integrated with IC4 project.

S. No	Proposed interventions	REVISED Name of Project	SCP Cost	Clubbed / Segregated/ Estimated Cost	Status
18.1	Spatial Mapping of assets and SCADA systems for Information gathering with monitoring centres	Base Map for ABD Areas	1,500	40	DPR have been submitted on 20 <sup>th</sup> December, 2018
18.2		Integrated Command, Control and Communication Centre (IC4)		6450	LoA issued.

The main objective of the project is to develop an updated detailed GIS Base map on a scale of 1:1,000 for the Project area. The preliminary interpreted map should be ground verified and the final map is to be prepared by incorporating the ground truth data. These detailed

maps consisting of the planimetric details, Plot boundaries micro level Land use and utility services underground utilities as available from line departments need to be generated by contact ground truth collection, updating of map and data linking.

Available data at CSML will be integrated with the Base Map in GIS during the survey preparation of base map. The data will be collected in proper field data sheet format. The base map prepared through on-screen digitization of imagery will be used for survey for the updating purpose and finalization of layer wise Base Map with the attributes.

Final base map is to be prepared incorporating the data collected from survey and the data for different entities. Hard copy base maps are to be prepared at 1: 1000 scale ward wise/ ABD area wise. The base maps will be prepared in various layers for ease of operation in GIS. Layer and data structures can be modified depending on the local requirements of CSML.

## 2.2 ADDITIONAL PROJECTS PROPOSED

Following few projects have been proposed by stakeholders to be taken up under smart city. These will only be taken up after council approval and based on fund availability after all identified projects under Smart City are taken up.

Those have been considered for following reason.

Project Name	Reason for inclusion
1. Multilevel Car parking at GCDA ground on Shanmugham Road 2. Smart parking solutions	<ul style="list-style-type: none"> <li>As part of module 12 improvement Ernakulam Market &amp; Pedestrianisation of Broadway Street is under scope of Smart city.</li> <li>For supporting proposal of pedestrianisation parking at various other locations are must to support parking free Broadway street. For success of Browed Street improvement this parking is very much required to support proposed Broadway Street pedestrianisation and Ernakulam Market development</li> <li>GCDA amenable to provide land.</li> <li>Location within ABD area.</li> <li>Urban mobility already identified theme under SCP can be taken up under same</li> </ul>

## 2.3 OVERALL PROGRESS

SI No	Source of Funds	No of Projects as per SCP	Cost as Per SCP (Rs in Cr)	No of Revised Projects	Revised Cost (Rs in Cr)	No of As Issued	As issued-Amount	No. of TS Issued	Amount of TS issued	No of Tendered Projects*	Amount of Tendered	No of Work Awarded	Amount of Work Awarded	No of Work Completed	Expenditure	Exp % against Work Order	Cumulative Exp in %
1	SPV	80	1347.29	67	1024.37	26	621.16	25	602.68	22	576.23	6	126.81		3.4	2.68	0.3
2	PPP			4	337.58	3	336.6	3	336.6	3	336.58	2	35				
3	Convergence	2	646.000	19	929.8	8	155.80	8	155.78	8	336.58	6	59.78	2	6.7	11.21	0.7

Note \* Total - Tendered Number & Amount : Projects not included which are awarded on nomination basis

## 2.3 SECTOR PROGRESS

SI No	Name of the Sector	No of Projects as per SCP	Cost as Per SCP (Rs in Cr)	No of Revised Projects under SCP	Revised Cost (Rs in Cr)	No. of Technical Sanction Issued	Technical Sanction Issued - Amount	Total Tendered (Number)	Total - Tendered Amount (Rs in Crore)*	Work Awarded - Number	Work Awarded - Amount (Rs in cr)	Work Completed	Total - Expenditure (Rs in crore)	Exp % against Work Order	Cumulative % of Exp (Based Revised Cost)
A. ABD AREA PROJECTS SPV															
1	Water Supply	14	131.55	2	4.75	0	0	0	0	0	0				
2	UGSS	3	202.00	2	200.3	1	143.3	1	143.3	0	0				
3	NMT Roads	4	144.13	7	146.51	3	102.7	3	102.66	0	0				
4	Main Roads	5	105.74	5	108.6	3	106.9	3	106.9	1	26.9				
5	Energy Supply	16	122.53	1	58.6	1	58.6	1	58.6	0	0				
6	Energy Efficiency	2	30.08	4	355.16	3	343.3	2	337.58	1	5.7				
7	Solid Waste and Sanitation	4	6.89	5	11.37	4	10.37	4	10.37	0	0				

SI No	Name of the Sector	No of Projects as per SCP	Cost as Per SCP (Rs in Cr)	No of Revised Projects under SCP	Revised Cost (Rs in Cr)	No. of Technical Sanction Issued	Technical Sanction Issued - Amount	Total Tendered (Number)	Total - Tendered Amount (Rs in Crore)*	Work Awarded - Number	Work Awarded - Amount (Rs in cr)	Work Completed	Total Expenditure (Rs in crore)	Exp % against Work Order	Cumulative % of Exp (Based Revised Cost)
8	Park & Open Space	4	4.20	4	15.3	1	7.1	1	7.1	0	0				
9	Canal Restoration	4	41.00	4	41	0	0	0	0	0	0				
10	Urban Mobility	9	111.28	7	98.58	3	103.7	3	103.7	3	83.5		1.9	2.28	1.93
11	Housing	3	239.99	3	100	0	0	0	0	0	0				
12	Economy and Employment	2	115.00	4	115.6	0	0	0	0	0	0				
13	Health	2	40.00	4	29.93	4	29.93	2	9.22	2	20.71				
14	Education	2	5.5	3	10.5	1	4.6	1	4.6	0	0				
15	Safety and Security	2	0.80	2	5.85	0	0	0	0	0	0				
16	Other Social Infrastructure	2	1.6	1	1	0	0	0	0	0	0				
17	Identity and Culture	1	30.00	11	33.5	3	3.78	3	3.78	0	0				
18	Others	1	15.00	1	0.4	0	0	0	0	0	0				
	<b>Total -A</b>	<b>80</b>	<b>1347.29</b>	<b>70</b>	<b>1336.95</b>	<b>27</b>	<b>914.28</b>	<b>24</b>	<b>887.81</b>	<b>7</b>	<b>136.81</b>	<b>0</b>	<b>1.9</b>	<b>1.4</b>	<b>0.14</b>
<b>B. ABD AREA PROJECTS CONVERGENCE</b>															
19	Water Supply	14	120.3	13	80.64	4	9.88	4	9.88	4	9.88	2	5.04	<b>51.0</b>	6.25
20	UGSS	3	202	1	13.00	0	0	0	0	0	0				
21	Park & Open Space	4	4.20	1	2.00	1	2	1	2	1	2	1	1.66	<b>83.0</b>	83.00

SI No	Name of the Sector	No of Projects as per SCP	Cost as Per SCP (Rs in Cr)	No of Revised Projects under SCP	Revised Cost (Rs in Cr)	No. of Technical Sanction Issued	Technical Sanction Issued - Amount	Total Tendered (Number)	Total - Tendered Amount (Rs in Crore)*	Work Awarded - Number	Work Awarded - Amount (Rs in cr)	Work Completed	Total Expenditure (Rs in crore)	Exp % against Work Order	Cumulative % of Exp (Based Revised Cost)
22	Urban Mobility	9	111.28	2	96.00	2	96	2	96	0	0				
23	Housing	3	239.99	2	117.16	1	47.9	1	47.9	1	47.9				
	<b>Total- B</b>	<b>33</b>	<b>677.77</b>	<b>19</b>	<b>308.8</b>	<b>8</b>	<b>155.78</b>	<b>8</b>	<b>155.78</b>	<b>6</b>	<b>59.78</b>	<b>3</b>	<b>6.7</b>	<b>11.2</b>	<b>2.17</b>
<b>C. PAN CITY PROJECTS</b>															
24	Water Supply	1	621	1	621										
25	INTEGRATED CITY APP	1	25	1	25	1	25	1	25	1	25.00	1	25.00	100.0	100.00
	<b>Total -C</b>	<b>2</b>	<b>646</b>	<b>2</b>	<b>646</b>	<b>1</b>	<b>25</b>	<b>1</b>	<b>25</b>	<b>1</b>	<b>25.00</b>	<b>1.00</b>	<b>25.00</b>	<b>100.0</b>	<b>3.87</b>
	Grand Total - (A+B+C)	<b>115</b>	<b>2671.06</b>	<b>91</b>	<b>2291.75</b>	<b>36</b>	<b>1095.06</b>	<b>33</b>	<b>1068.59</b>	<b>14</b>	<b>221.59</b>	<b>4</b>	<b>33.6</b>	<b>15.2</b>	<b>1.47</b>

## 2.5 IMPLEMENTATION SCHEDULE

The implementation schedule for the projects are given below:

Name of Project - REVISED SCP Projectivisation	Original Project Cost as per SCP (Rs. Lakh) in	Clubbed / Segregated/ Estimated Cost (Rs. Lakh) in	Stage of project	Submission/Timeline Feasibility Report		Submission/Timeline DPR		Submission/Timeline Tender		Proposed Contract Award timeline	Reason for Delay
				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Replacement of connections (last mile) for across 550 HSCs (Commercial and Domestic) with Smart Metering and isolation valves	2000	400	Feasibility Stage	31-01-2019	12-03-2019	07-Mar-2019	27-April-2019	28-Feb-19	04-July-2019	30-Aug-2019	Scope is being finalised with Stakeholders Connections in the area were awaited from KWA.
Rainwater harvesting structures in 13 Govt. bldgs & Institutions	1125	75	DPR Stage	21-Mar-18	-	30-Mar-2019	30-April-2019	11-June-2019	11-June-2019	31-July-2019	Approval awaiting
Improvements to sewer collection system for West Kochi	13200	14300	Tender Stage	7-Feb-18 Revised-11-Sep-18		20-Feb-2019/ 28-Feb-2019	-	07-Mar-2019	07-Mar-2019	15-June-2019	DPR under preparation
Improvements to sewer collection system for Mainland	7000	5700	Feasibility Stage	29-Mar-2019	29-Mar-2019	15-May-2019	15-May-2019	04-July-2019	04-July-2019	27-Sept-2019	Scope is being finalised with Stakeholders
Development of Other Roads in Ernakulam	4200 2853	3630	Project re-tendered	10-Aug-18	-	30-Aug-18	-	11-Oct-18/ -	-	15-June-2019	Project re-tendered



Name of Project - REVISED SCP Projectivisation	Original Project Cost as per SCP  (Rs. Lakh) in	Clubbed / Segregated/ Estimated Cost  (Rs. Lakh) in	Stage project of	Submission/Timeline Feasibility Report		Submission/Timeline DPR		Submission/Timeline Tender		Proposed Contract Award timeline	Reason for Delay
				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
under Smart City Mission	2360							14-Feb- 2018			
Development of Other Roads in West Kochi under Smart City Mission		6020	Project re- tendered	10-Aug-18	-	30-Aug- 18	-	11-Oct-18/ 15-Feb- 2018	-	15-June- 2019	Project re- retendered
MLCP at Kacheripady	5000	616	Tender Stage	26-Feb-18 Revised FR - 07-Oct-18	-	08-Feb- 2019		28-Feb- 2019	08-March- 2019	15-June- 2019	
MLCP at GCDA land at Marine Drive		1000	Feasibility Stage	28-Feb- 2019	30-April- 2019	29-April- 2019	30-May- 2019	07-June- 2019	07-June- 2019	15-Aug- 2019	Scope is being finalised with Stakeholders
MLCP at KTDC		700	Feasibility Stage		30-April- 2019	29-April- 2019	30-May- 2019	07-June- 2019	07-June- 2019	15-Aug- 2019	
Smart Parking Solutions in ABD area		100	Feasibility Stage		30-April- 2019	29-April- 2019	30-May- 2019	07-June- 2019	07-June- 2019	15-Aug- 2019	
Commercial complex at Kacheripady		2583	Feasibility Stage		30-April- 2019	29-April- 2019	30-May- 2019	07-June- 2019	07-June- 2019	15-Aug- 2019	
Development of Smart Roads in Ernakulam under Smart City Mission	5287	5240	Project re- tendered	10-Aug-18	-	30-Aug- 18	-	11-Oct-18/ 14-Feb-19	-	30-April- 2019	Project re- tendered

Name of Project - REVISED SCP Projectivisation	Original Project Cost as per SCP (Rs. Lakh) in	Clubbed / Segregated/ Estimated Cost (Rs. Lakh) in	Stage of project	Submission/Timeline Feasibility Report		Submission/Timeline DPR		Submission/Timeline Tender		Proposed Contract Award timeline	Reason for Delay
				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Development of Smart Roads in West Kochi under Smart City Mission	1650 3300	2450	Project re-tendered	10-Aug-18	-	30-Aug-18	-	11-Oct-18/ 16-Feb-19	-	30-April-2019	Project re-tendered
Integrated Traffic Management Systems (ITMS)	97	2690	LoA issued	2-Feb-18	-	6-Feb-18	-	24-Feb-18	-	28-Feb-2019	
Signages		240	DPR submitted	15-Feb		28-Feb-2019		10-Mar-2019	15-June-2019	15-Aug-2019	-
Escalator FOBs	240	240	Feasibility Stage	20-Feb-2019	25-Mar-2019	23-Mar-2019	15-May-2019	08-May-2019	28-June-2019	30-August-2019	Scope is being finalised with Stakeholders
Implementation of Smart LED Lighting in ABD area	1250	3600	Re-tender.	12-Feb-18	-	17-Feb-18	-	24-Feb-18 Re tendered-26-12-18	-	30-Mar-2019	Project re-tendered
Intelligent Street Poles		30158	DPR Submitted.	8-Feb-18	-	15-Nov-2018/ 08-Feb-2019	-	30-01-2019	07-03-2019	15-	Approval awaited
Solar Panels in Govt. Buildings	1758	570	Project under implementation.	2-Feb-18	-	7-Feb-18	-	-	24-Sep-18	-	-

Name of Project - REVISED SCP Projectivisation	Original Project Cost as per SCP  (Rs. Lakh) in	Clubbed / Segregated/ Estimated Cost  (Rs. Lakh) in	Stage project of	Submission/Timeline Feasibility Report		Submission/Timeline DPR		Submission/Timeline Tender		Proposed Contract Award timeline	Reason for Delay
				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
			Panels are being installed								
Solar panels in public places (Canals, parks etc)		1178	Concept Stage	15-Feb- 2019	27- Mar- 2019	20-Mar- 2019	25-April- 2019	10-May- 2019	10-July- 2019	30-Aug- 2019	Scope is being finalised with Stake holders
Supply, Operation and Maintenance of Portable Compactor for Secondary Storage & Transportation of Solid Waste	600	440	Tendered Technical Bid evaluation under progress	14-Feb-18	-	20-Mar- 18	-	22-Mar-18	-	28-Feb-19	-
Smart & Improved Battery-Operated Tricycles for Primary Waste Collection at West Kochi & Ernakulam in ABD Area		100	DPR Submitted	26-Feb-18		28-Feb- 18		30-June- 2019	30-June- 2019	30-Aug-19	Approval awaited
Smart & Improved Mechanised Street Sweeping at West Kochi & Ernakulam in ABD area		320	Tendered Technical Bid evaluation under progress	20-Mar-18	-	20-Mar- 18	-	22-Mar-18	-	28-Feb- 2019	-

Name of Project - REVISED SCP Projectivisation	Original Project Cost as per SCP  (Rs. Lakh) in	Clubbed / Segregated/ Estimated Cost  (Rs. Lakh) in	Stage of project	Submission/Timeline Feasibility Report		Submission/Timeline DPR		Submission/Timeline Tender		Proposed Contract Award timeline	Reason for Delay
				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Distribution of Household Bins & Street Litter Bins for improvement of waste segregation in ABD Area	74	100	Tendered Technical Bid evaluation under progress	7-Feb-18	-	28-Feb-18	-	22-Mar-18	-	28-Feb-2019	-
Public toilets in West Kochi & Ernakulam Market using Septic Tank	10	180	DPR submitted	27-Sept-18	-	13-Feb-2019	-	28-Feb-19	07-03-2019	15-June-2019	-
Development of open spaces and playgrounds	30	30	Feasibility Stage	28-Feb-2019	30-April-2019	30-April-2019	30-May-2019	11-June-19	11-June-19	07-Aug-2019	Feasibility report under preparation
Marine Drive Walkway Phase I	90	710	DPR Submitted	03-Nov-18	-	11-Nov-18 12-Feb-19	-	07-Feb-19	28-Feb-2019	30-April-19	Approval awaited
Mangalavanam Eco-restoration project	100	100	Conceptualization Stage. Various discussions held. Confirmation awaited	30-Mar-2019	30-Mar-2019	10-May-2019	10-May-2019	15-June-2019	15-June-2019	10-Aug-2019	Confirmation awaited from stakeholder on scope of work

Name of Project - REVISED SCP Projectivisation	Original Project Cost as per SCP  (Rs. Lakh) in	Clubbed / Segregated/ Estimated Cost  (Rs. Lakh) in	Stage of project	Submission/Timeline Feasibility Report		Submission/Timeline DPR		Submission/Timeline Tender		Proposed Contract Award timeline	Reason for Delay
				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
			from stakeholder on scope of work								
Restoration of Mullassery canal - including linking of standardized area drains	100	100	Feasibility Stage	18-Feb- 2019	30-Mar- 2019	30-Apr- 2019	10-May- 2019	15-June- 2019	15-June- 2019	15-Aug- 2019	Feasibility report under preparation
Restoration of Market canal - Walkways and Market square around the canal pond, Solar paneled roofs, LED Lighting, Light posts	500	500	Feasibility Stage	15-Mar- 2019	30-Mar- 2019	30-Apr- 2019	30-Apr- 2019	10-June- 2019	10-June- 2019	10-Aug- 2019	Feasibility report under preparation
Restoration of Kalvathy canal and area drain improvement - Open spaces, Street furniture and landscaping features	2000	2000	Feasibility Stage	15-Mar- 2019	30-Mar- 2019	30-Apr- 2019	30-Apr- 2019	15-June- 2019	15-June- 2019	15-Aug- 2019	Feasibility report under preparation
Restoration of Rameswaram- Kalvathy canal - Upto Cochin college -	1500	1500	Feasibility Stage	12-Mar- 2019	30-Mar- 2019	04-May- 2019	04-May- 2019	27-June- 2019	27-June- 2019	15-Sept- 2019	Feasibility report under preparation

Name of Project - REVISED SCP Projectivisation	Original Project Cost as per SCP  (Rs. Lakh) in	Clubbed / Segregated/ Estimated Cost  (Rs. Lakh) in	Stage of project	Submission/Timeline Feasibility Report		Submission/Timeline DPR		Submission/Timeline Tender		Proposed Contract Award timeline	Reason for Delay
				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Walkways and Linking the Canal Bank Road											
Electric Feeders	1148	574	Concept Stage. Scope to be finalised by stakeholder s	30-Mar- 2019	30-April- 2019	30-Apr- 2019	30-May- 2019	10-June- 2019	10-June- 2019	10-Aug- 2019	Scope is being finalised with Stake Holders
Bicycle Sharing		1000	Work under implementa tion			2-Mar-18		06-Mar-208		15-Nov-18	-
Elevated Walkways and Travellators		574	Concept Stage. Scope to be finalised by stakeholder s	30-Mar- 2019	30-April- 2019	10-May- 2019	15-May- 2019	08-July- 2019	08-July- 2019	30-Aug- 2019	Scope is being finalised with Stake Holders
Walkway from Ekm Jetty to Metro station	900	900	Under Implementa tion							30-Mar-17	
Integrated Command, Control and Communication Centre (IC4)	10000	6450	LoA issued	15-May-18	-	20-May- 18	-	26-Apr-18	-	28-Feb- 2019	Financial bid to be opened by authority



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				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Extend 'Smart Wi-Fi bus shelters' with LED bulbs, FM radio, USB drive slots, magazine/newspaper kiosks, mobile charger units	60	60	Concept Stage. Scope being finalised with KMC	30-Mar-2019	30-April-2019	30-Apr-2019	30-May-2019	17-June-2019	17-June-2019	30-Aug-2019	Scope is being finalised with Stake Holders
Standard Wifi Enabled Bus Stands with Commercial space development	300	300	Concept Stage. Scope being finalised with KMC	30-Mar-2019	30-April-2019	30-Apr-2019	30-May-2019	17-June-2019	17-June-2019	30-Aug-2019	Scope is being finalised with Stake Holders
Integrated redevelopment of Slum housing	14140	9635	Scope being finalised with KMC	17-April-2019	17-April-2019	15-June-2019	15-June-2019	30-July-2019	30-July-2019	30-Sept-19	Scope is being finalised
Upgradation of infrastructure in Housing through Credit linked schemes	2435		Scope being finalised with KMC	17-April-2019	17-April-2019	15-June-2019	15-June-2019	30-July-2019	30-July-2019	30-Sept-19	Scope is being finalised
Construction & upgradation of Infrastructure in Thuruthy	7424	350	Feasibility report submitted	27-Sept-2019	-	30-Mar-2019	15-May-2019	01-June-2019	01-June-2019	30-July-2019	Approval awaited

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				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Broadway Street	11000	1000	Feasibility Report Submitted. Confirmatio n awaited	15-Oct-18	-	17-April- 2019	30-April- 2019	22-June - 2019	22-June - 2019	30-Aug- 2019	Approval awaited
Ernakulam Market Redevelopment		10000	Feasibility Report Submitted, Confirmatio n awaited	19-Sep-18	-	30-Mar- 2019	15-May- 2019	13-June- 2019	13-June- 2019	26-August- 2019	Approval awaited
Mattancherry spice market Redevelopment			Concept Stage								Scope of the work is being finalised
Standard Hawker zones in Fort Kochi + Standardize structures for "Petti Kada"	500	560	Concept Stage	30-Jan-19	30-Mar- 2019	28-Feb- 2019	27-Apr- 2019	30-Mar- 2019	15-June- 2019	30-Aug- 2019	Scope of the work is being finalised
Cancer Extension Block, General Hospital.	3000	1700	LoA Issued to INKEL on nomination basis	10-Jul-18	-	-	-	-	-	-	
Out Patient & Admin block, Fort Kochi taluk Hospital	1000	465	DPR Submitted	28-Feb-18	-	17-Mar- 18  Rev- 30- Oct-18	-	07-Mar- 2019	07-Mar- 2019	15-June- 2019	Approval awaited

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				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Out Patient & Admin block, Women & Child Hospital, Mattancherry		460	DPR Submitted	28-Feb-18		27-Jul-18 Rev- 13- Nov-18		28-Feb- 2019	07-Mar- 2019	15-June- 2019	Approval awaited
E-health solutions for selected hospitals		323	LoA issued	15-Sep-18		20-Dec- 18/ 07-Feb- 19	-			28-02-2019	Approval for technical sanction awaited
CIVIL - Anganwadis and public schools	450	100	Concept Stage. Scope to be finalised by stakeholder s	28-Feb- 2019	30-Mar- 2019	30-Mar- 2019	30-May- 2019	30-Apr- 2019	15-July- 2019	02-Sept- 2019	Scope of work is being finalised with the consultation with Stake Holders
Higher secondary block, Central Calvathy GHSS, Fort Kochi	100	460	DPR Submitted	Submitted on 28-Feb- 18	-	15-07- 2018/ 03-12- 2018	-	28-Feb- 2019	07-Mar- 2019	15-June- 2019	
CIVIL 1 - Mattancherry School - Higher Educational institutions			To be taken up based on fund availability	-	-	-	-	-	-	-	-

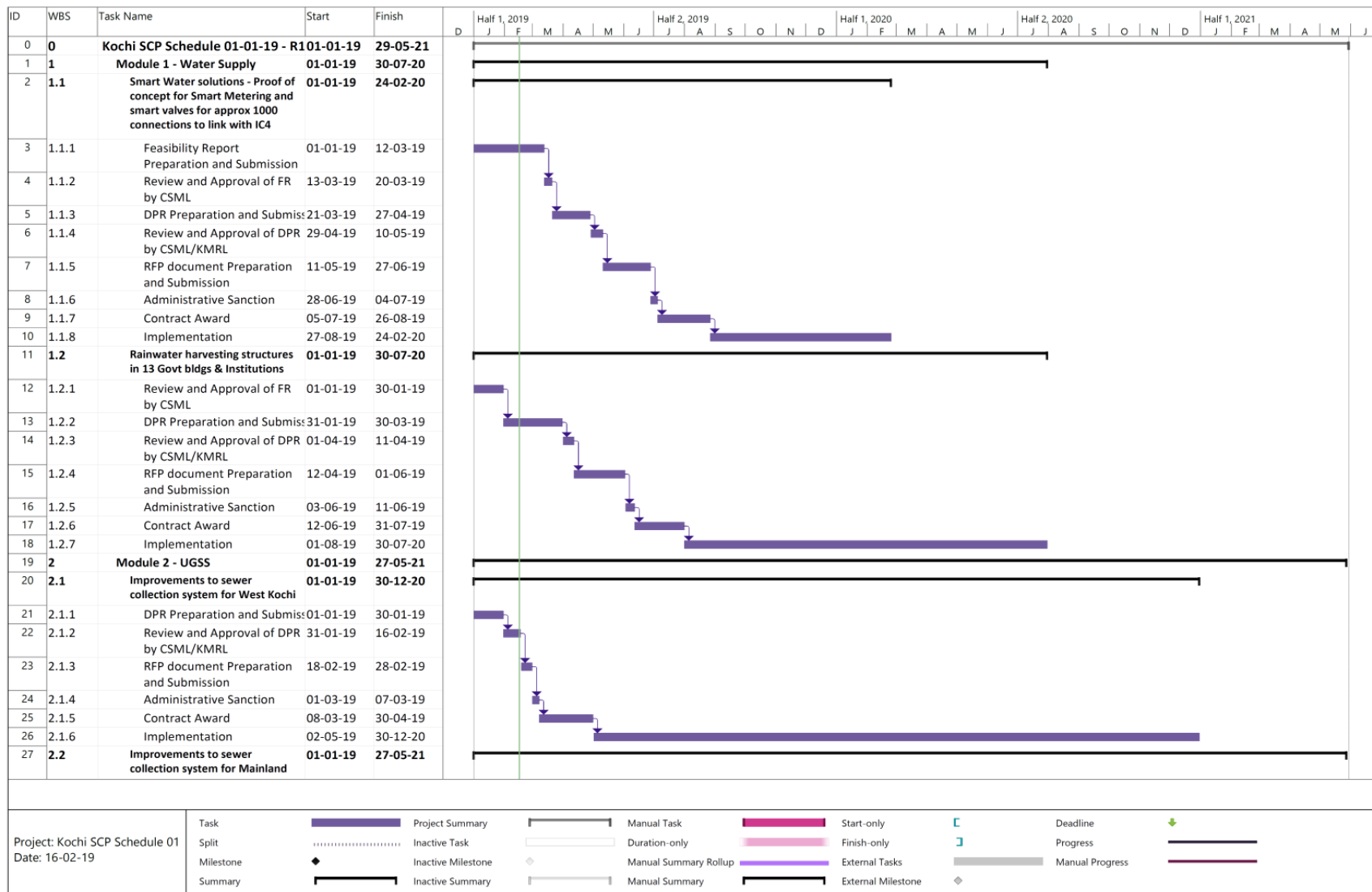
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				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Smart Classroom for 100 classrooms PAN city		490	Tender cancelled Project put on hold.	5-Feb-18	-	9-Feb-18	-	24-Feb-18	-	-	-
5 Rapid response boats for water transport safety	50	50	Scope being finalised with KMC	30-Mar-2019	15-Apr-2019	20-May-2019	20-May-2019	30-June-2019	12-July-2019	16-Sept-2019	Scope of work is being finalised with stakeholders.
CCTV Surveillance	30	30	Feasibility report Submitted DPR Stage	21-Jan-2019	-	20-Feb-2019	07-Mar-2019	28-Feb-2019	15-June-2019	15-Aug-2019	
Upgradation of Community Centre at Mattancherry with indoor sports facilities	100	100	Scope is being finalised with KMC	30-Mar-2019	30-April-2019	10-May-2019	10-May-2019	30-June-19	30-June-19	04-Oct-2019	Scope is being finalised with KMC
Implementation of identified Tourism related projects in Fort Kochi & Mattancherry	3000	3000									
Open Air theatre at Fort Kochi		110	Revised feasibility Report submitted	20-Aug-18 Rev- 10-Oct-18/ Rev-		02-Feb-2019		28-Feb-2019	07-Mar-2019	15-Jun-2019	

Name of Project - REVISED SCP Projectivisation	Original Project Cost as per SCP (Rs. Lakh) in	Clubbed / Segregated/ Estimated Cost (Rs. Lakh) in	Stage of project	Submission/Timeline Feasibility Report		Submission/Timeline DPR		Submission/Timeline Tender		Proposed Contract Award timeline	Reason for Delay
				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
			on 10 <sup>th</sup> October Revised Feasibility Report along with DPR for the taking up of OAT Project has been submitted	06-Feb-2019							
Museums of Freedom Struggle		120	Feasibility Report submitted	20-Dec-2018	-	28-Feb-2019	30-Apr-2019	01-June-2019	01-June-2019	30-July-2019	RFP under preparation
Museums of spices		150	Feasibility Report submitted	20-Dec-2018	-	02-Feb-2019	30-Apr-2019	01-June-2019	01-June-2019	30-July-2019	Building confirmation awaited
Development of Ethnic Food Hub & Dutch Quay Upgradation		300	DPR Submitted	20-Dec-2018		20-Feb-2019		28-Feb-19	01-June-2019	30-July-2019	RFP under preparation
Development of Dutch palace node parking area and palace street entry		110	DPR Submitted	20-Dec-2018	-	20-Feb-2019	-	28-Feb-19	7-Mar-2019	15-June-2019	RFP under preparation

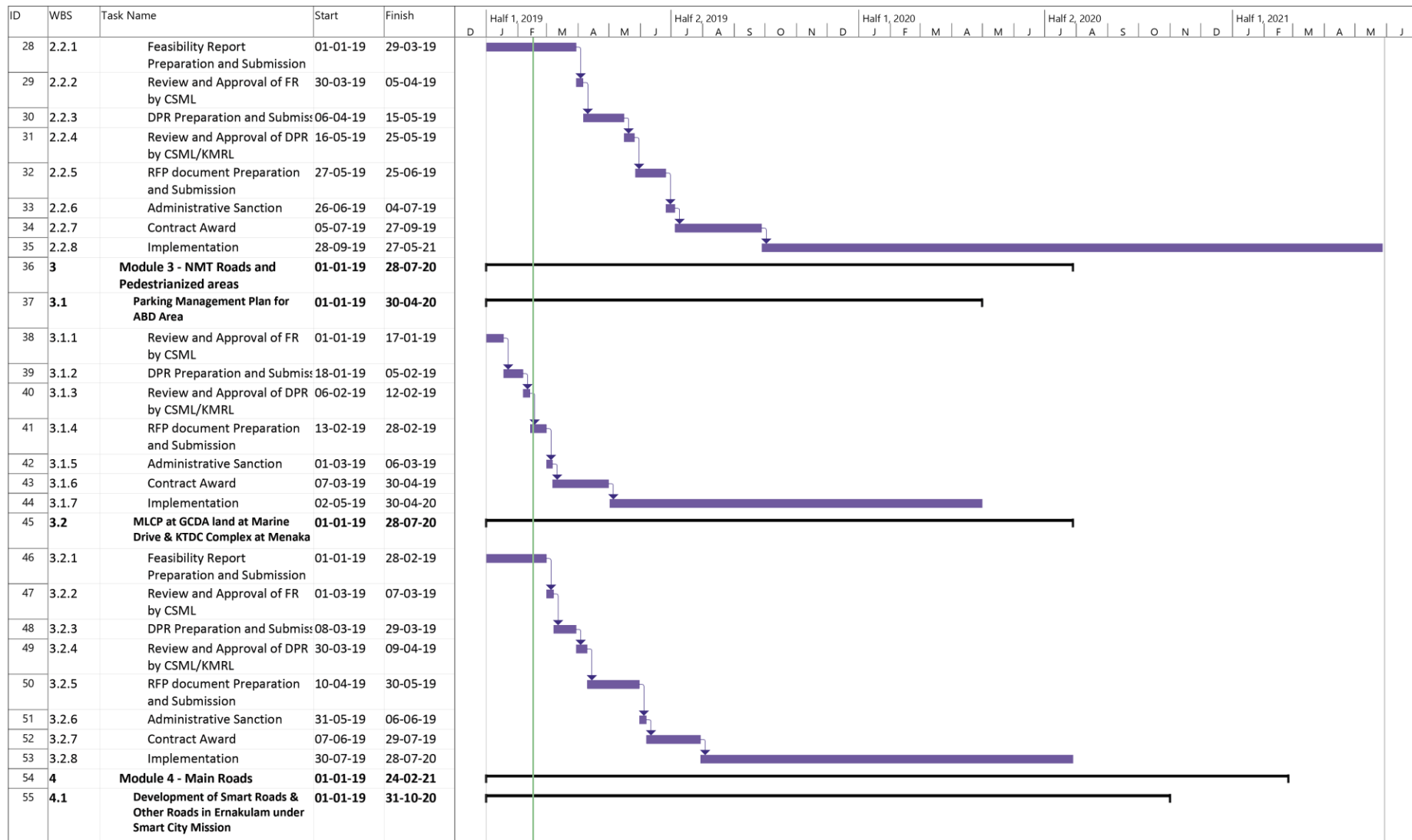
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				As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline	As per January 2019	Proposed Revised Timeline		
Fort Kochi Beach Front improvements - Vasco Square		158	Feasibility report Submitted	20-Dec- 2018		02-Feb- 2019	28-Feb- 2019	28-Feb-19	01-June- 2019	30-July- 2019	RFP under preparation
Fort Kochi Beach Front improvements - Phase II		842				28-Feb- 2019	-	28-Feb-19	01-June- 2019	30-July- 2019	
Mattancherry Walkway		1100	Feasibility report Submitted	20-Dec- 2018		02-Feb- 2019	08-April- 2019	28-Feb-19	01-June- 2019	30-July- 2019	Approval awaited. Stakeholder consultations to be conducted
Developing a Water & Adventure sports center at Marine drive		100	Feasibility report Submitted	08-Nov- 2018		30-Mar- 2019	30-April- 2019	30-Jan-19	01-June- 2019	23-July- 2019	
Multimedia based Light & Sound show		500	Feasibility Stage	28-Feb- 2019	28-Feb- 2019	28-Feb- 2019	08-April- 2019	28-Feb-19	01-June- 2019	23-July- 2019	Scope is being finalised
Art Installations/Cultural Corridor in Kochi		100	Feasibility Stage	30-Jan-19	28-Feb- 2019	28-Feb- 2019	08-April- 2019	28-Feb-19	01-June- 2019	23-July- 2019	
Spatial Mapping of assets and SCADA systems for Information gathering with monitoring centres	1500	50	DPR under preparation and will be submitted by		-	21-Dec- 2018	-	30-Jan-19	15-June- 2019	30-Aug- 2019	



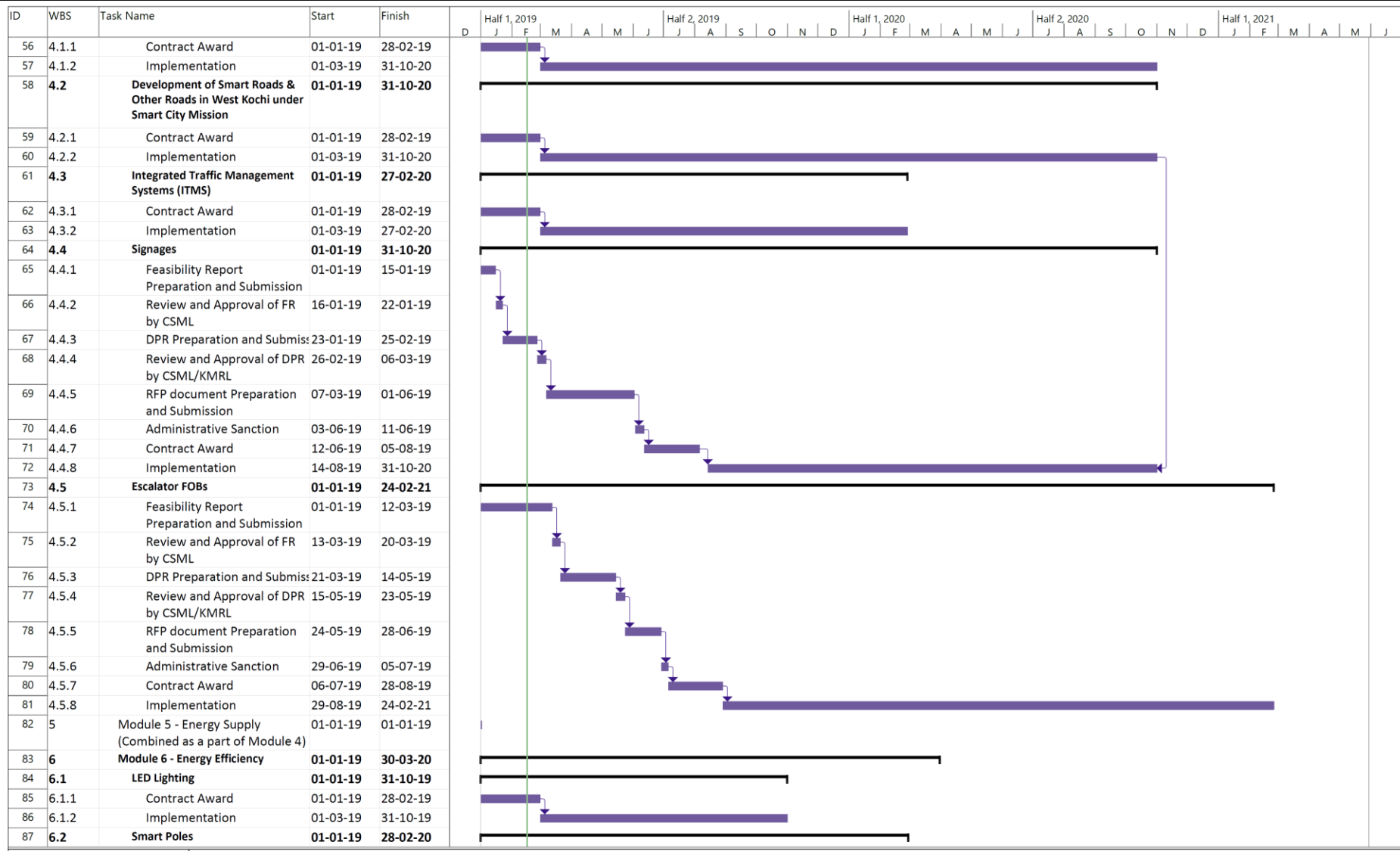
## Monthly Progress Report



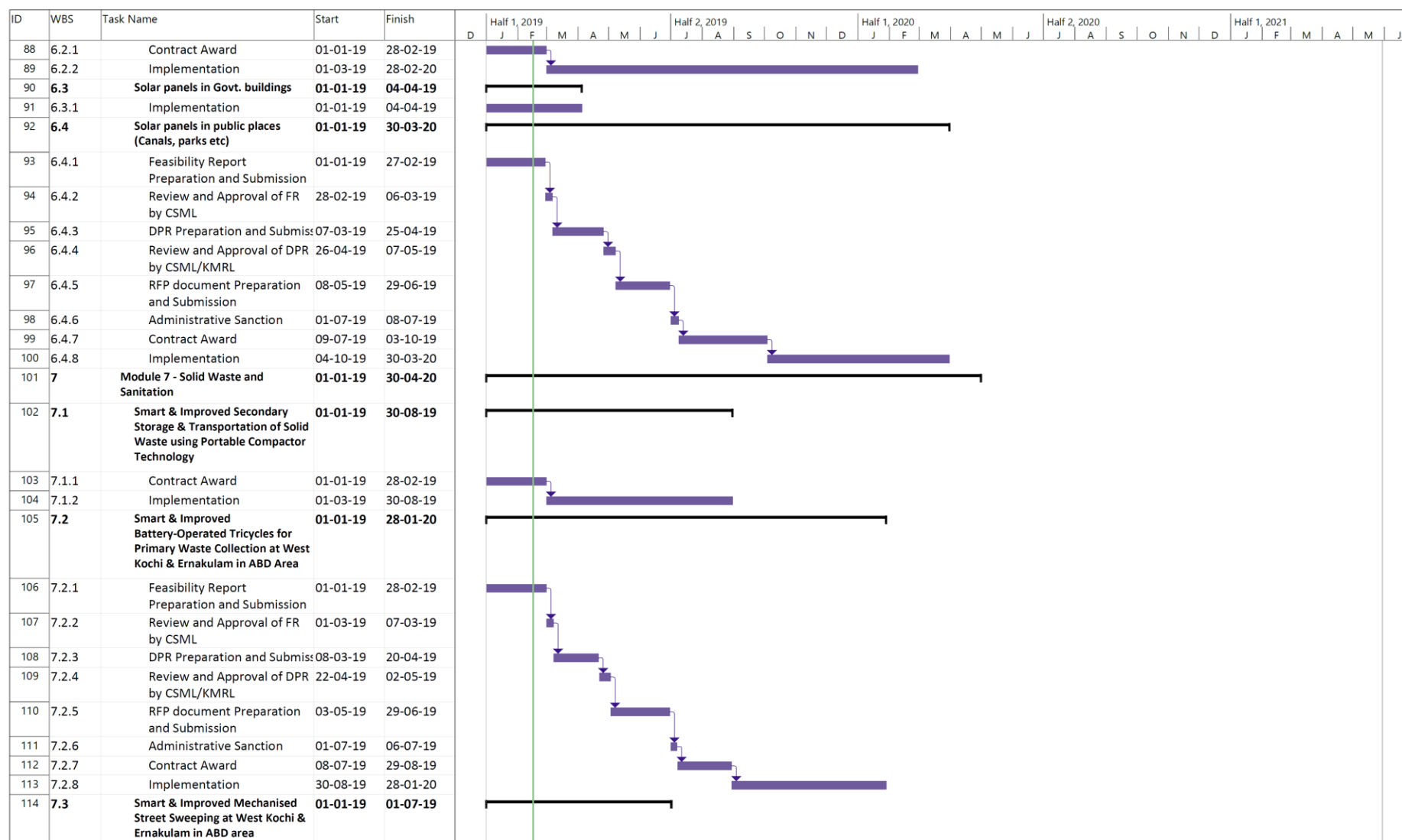
## Monthly Progress Report



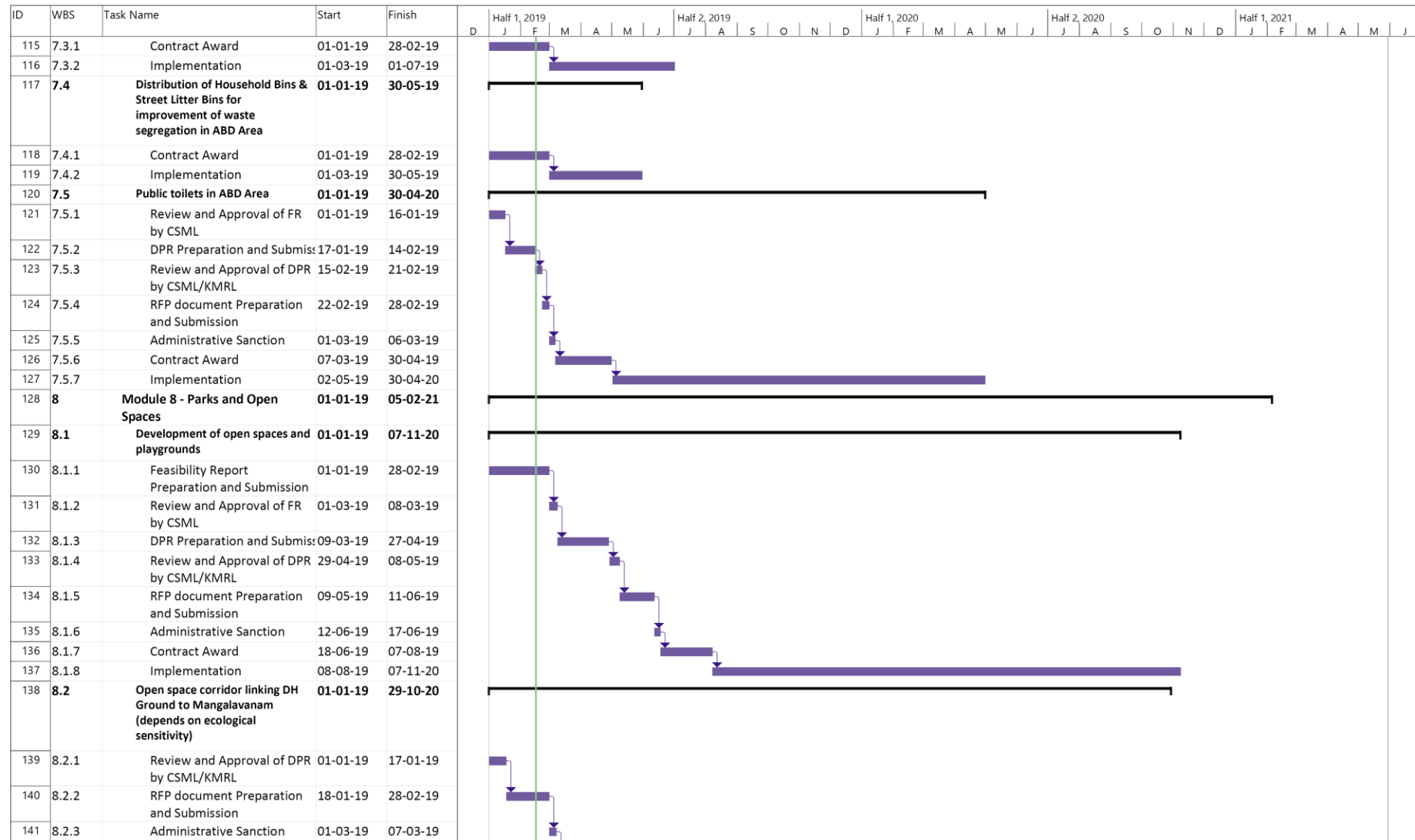
## Monthly Progress Report



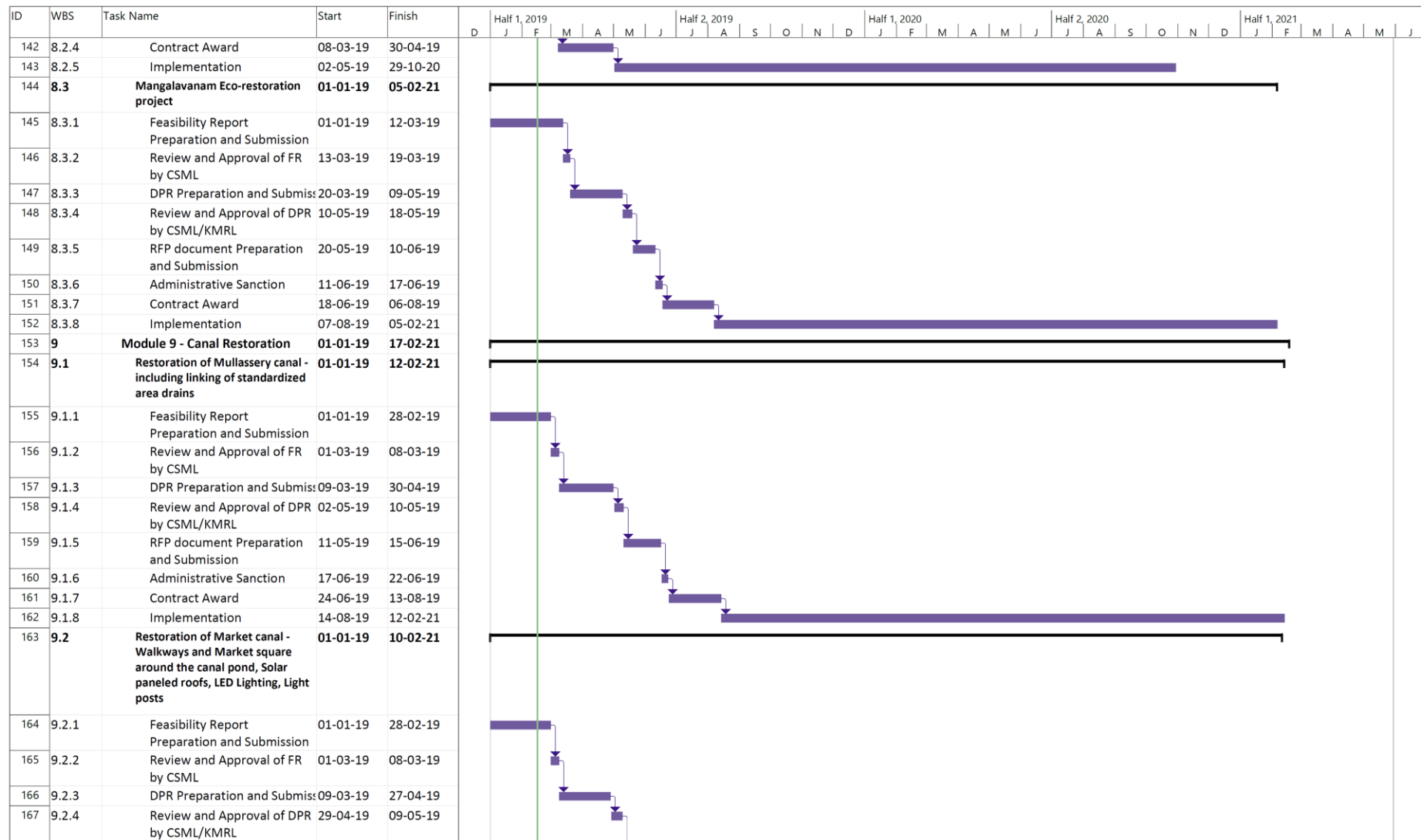
## Monthly Progress Report



## Monthly Progress Report

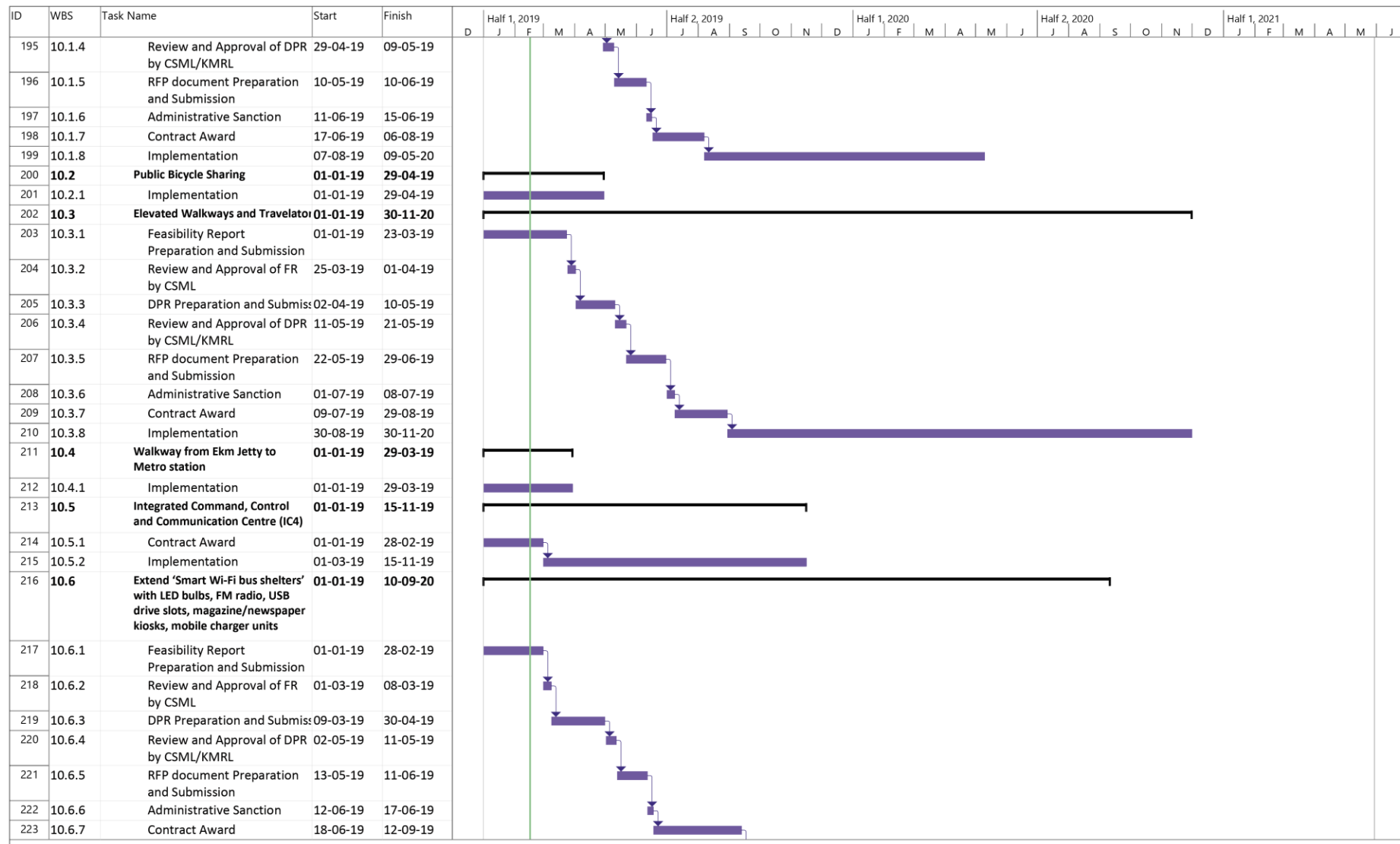


## Monthly Progress Report

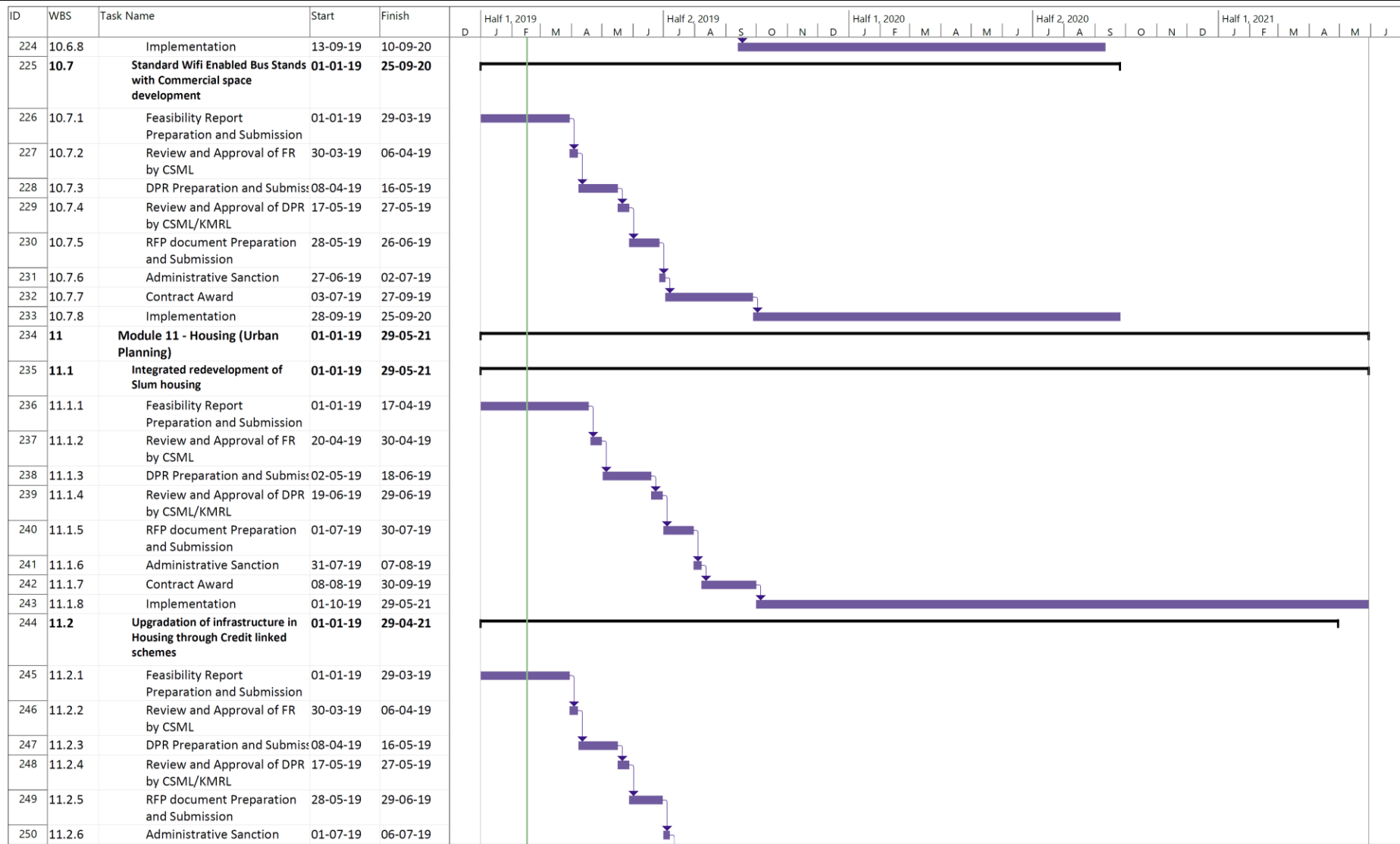




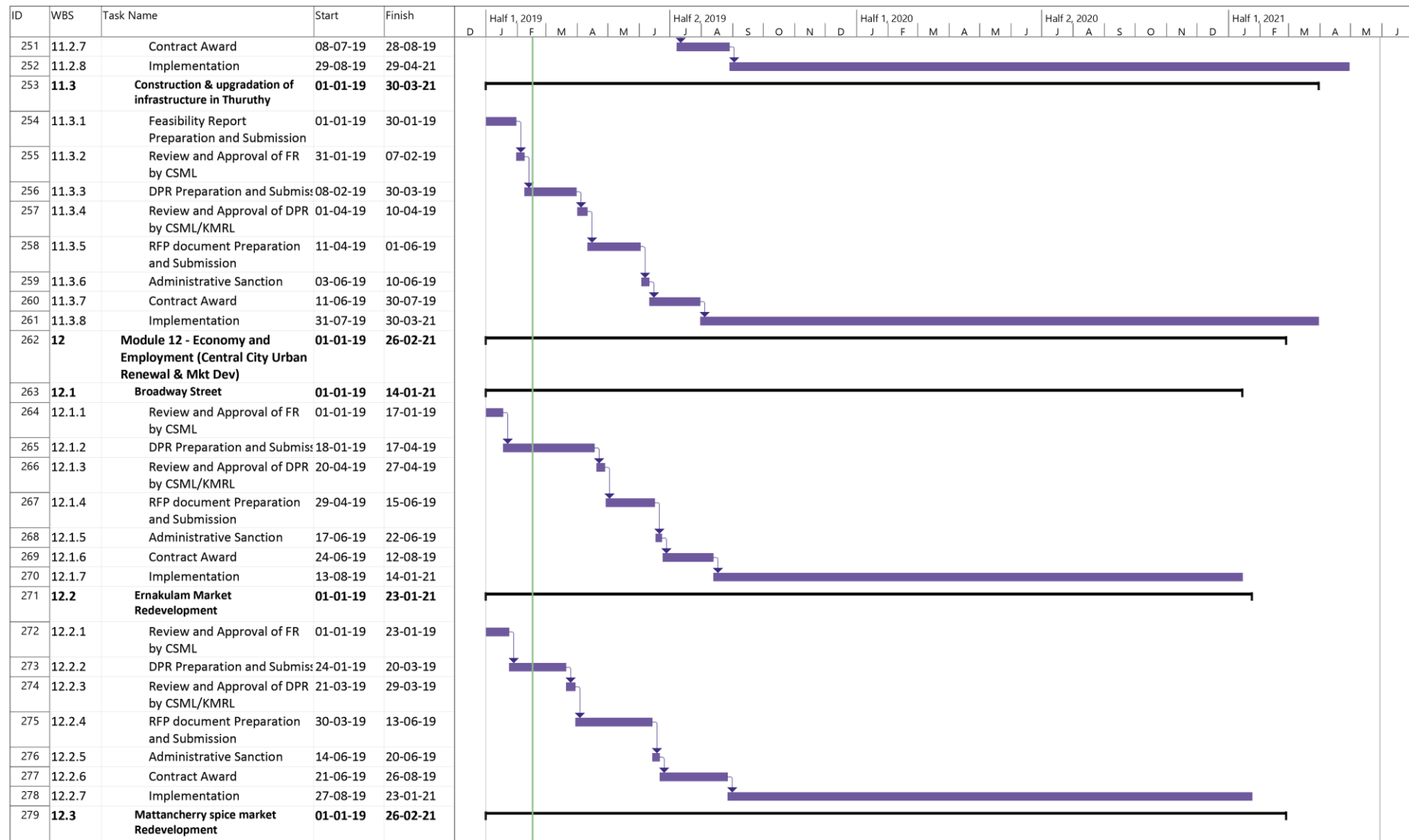
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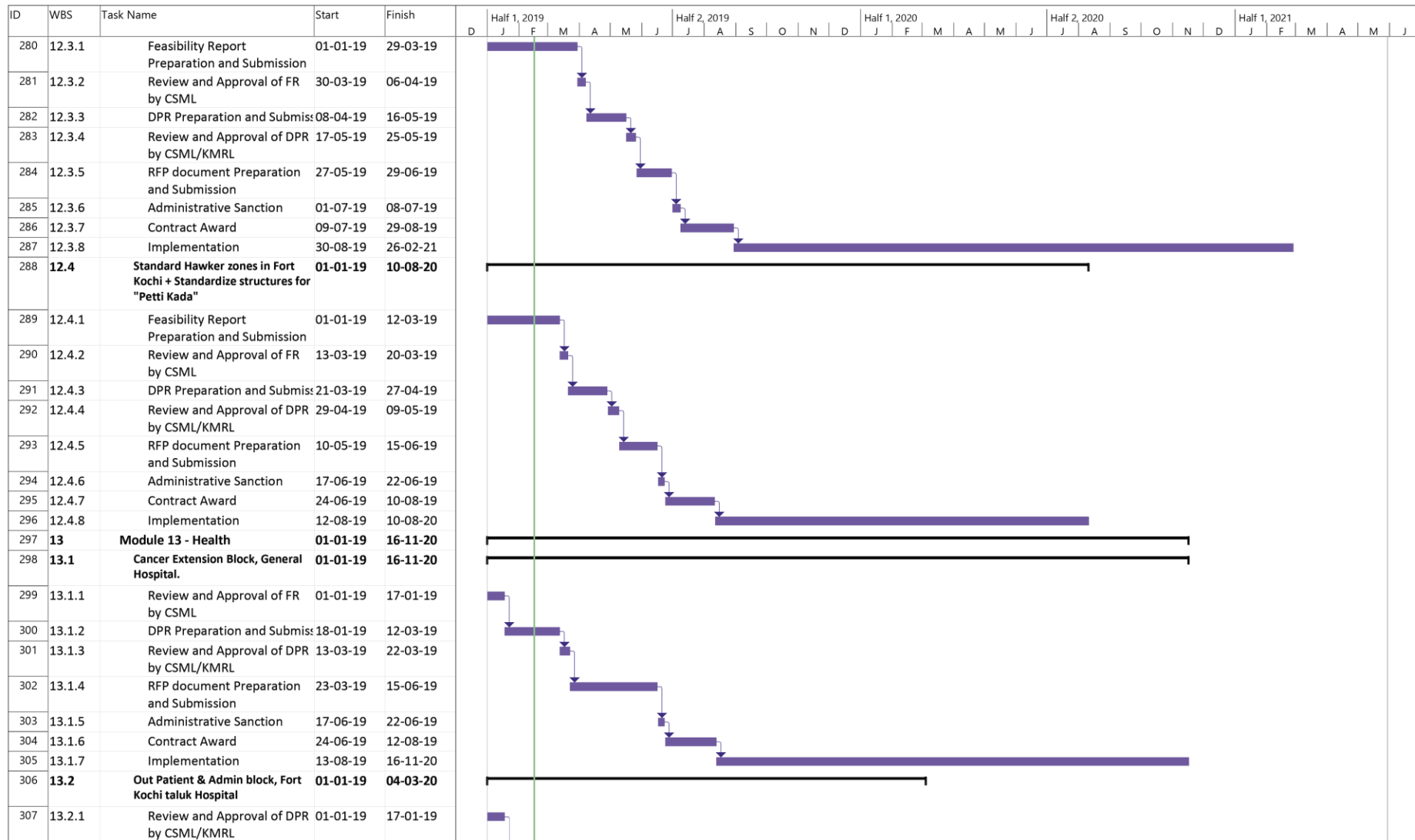
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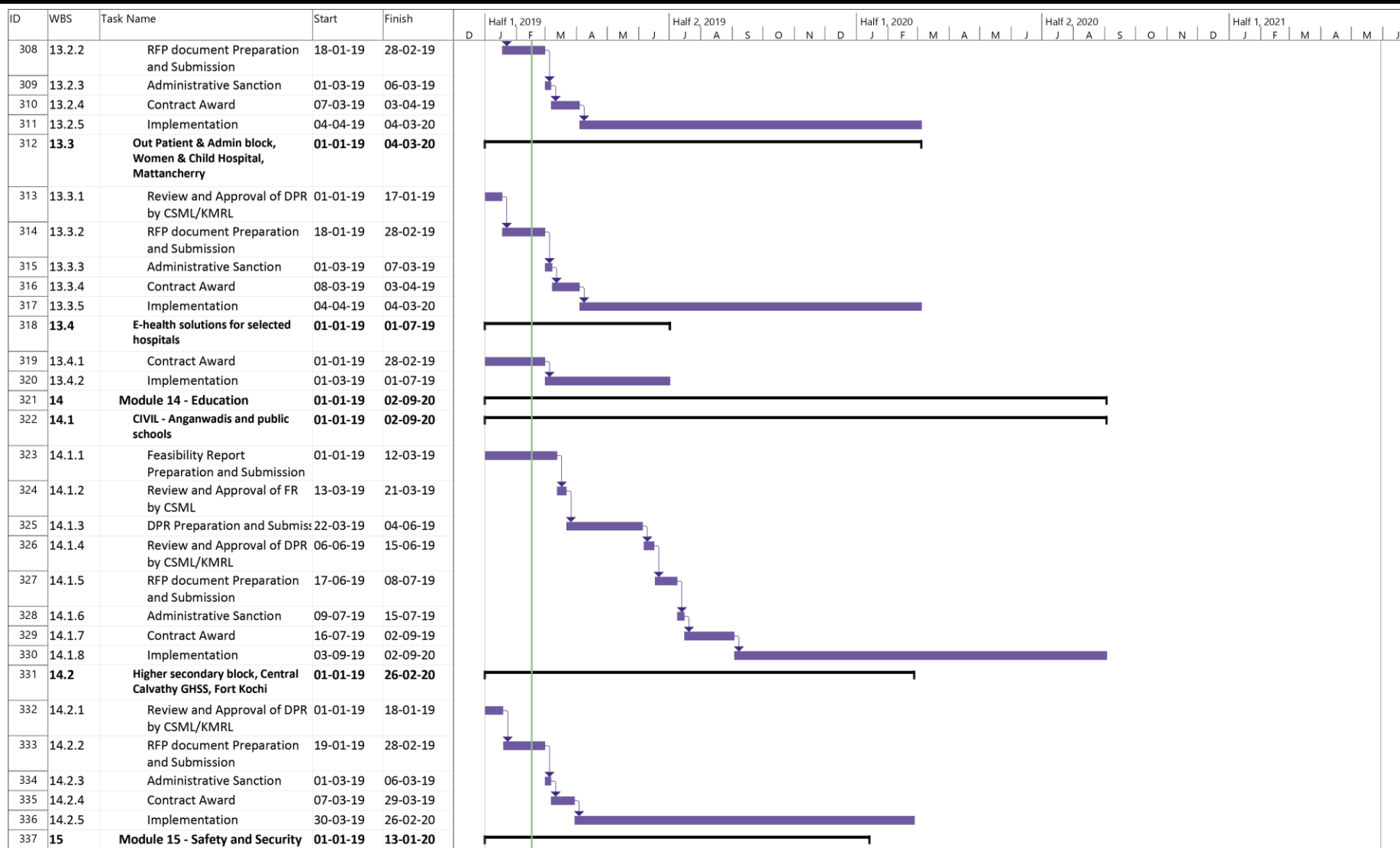
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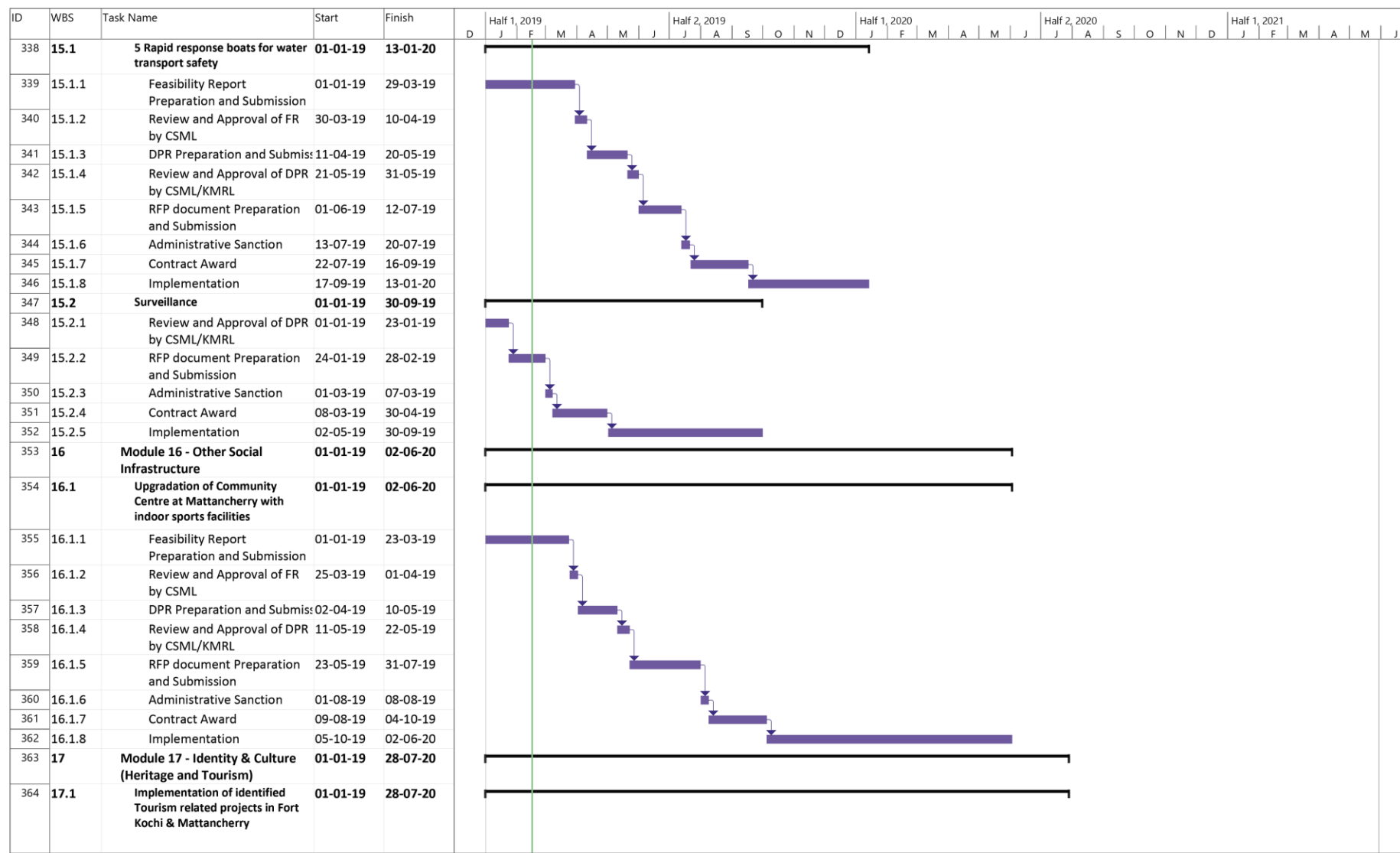
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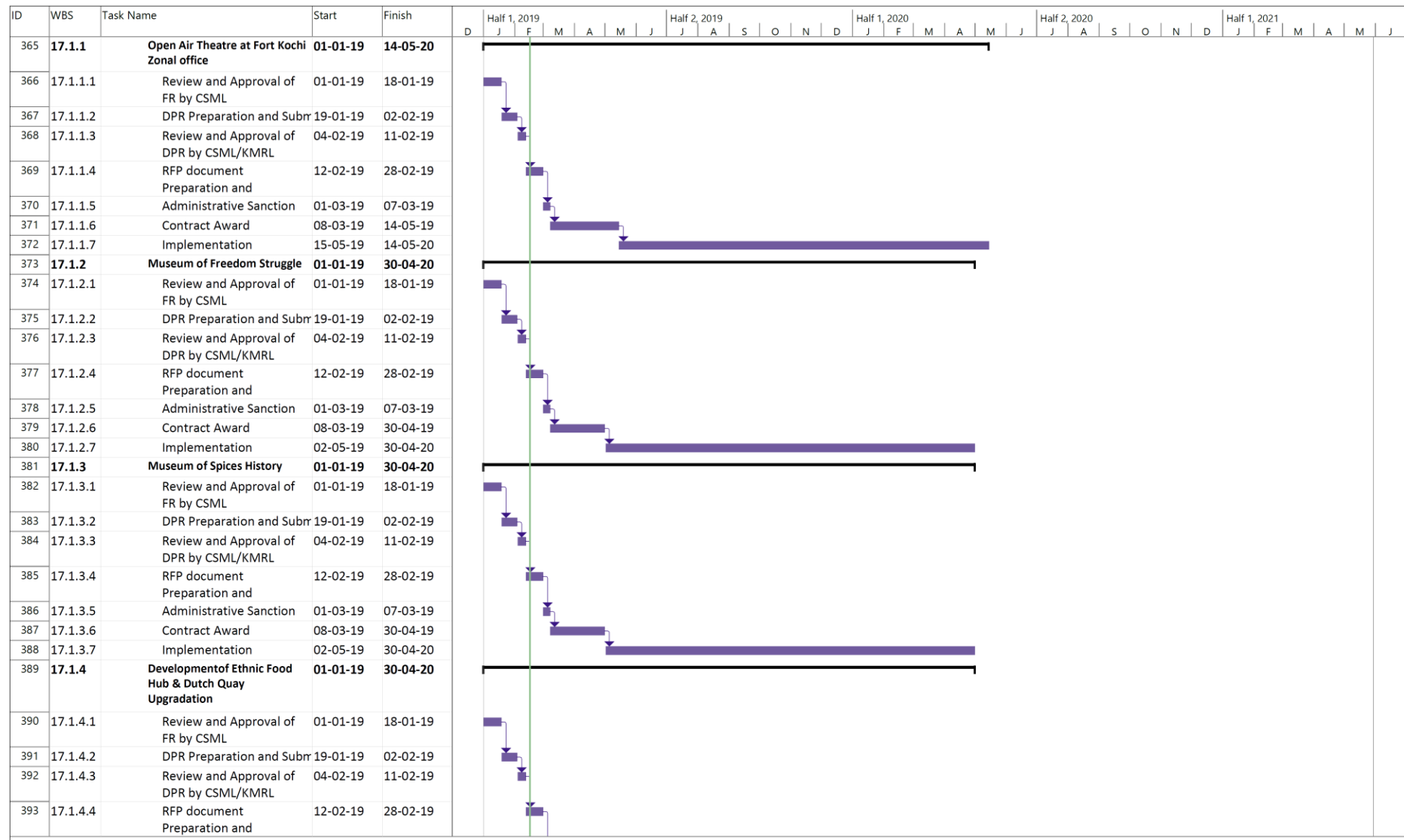
## Monthly Progress Report



## Monthly Progress Report



## Monthly Progress Report

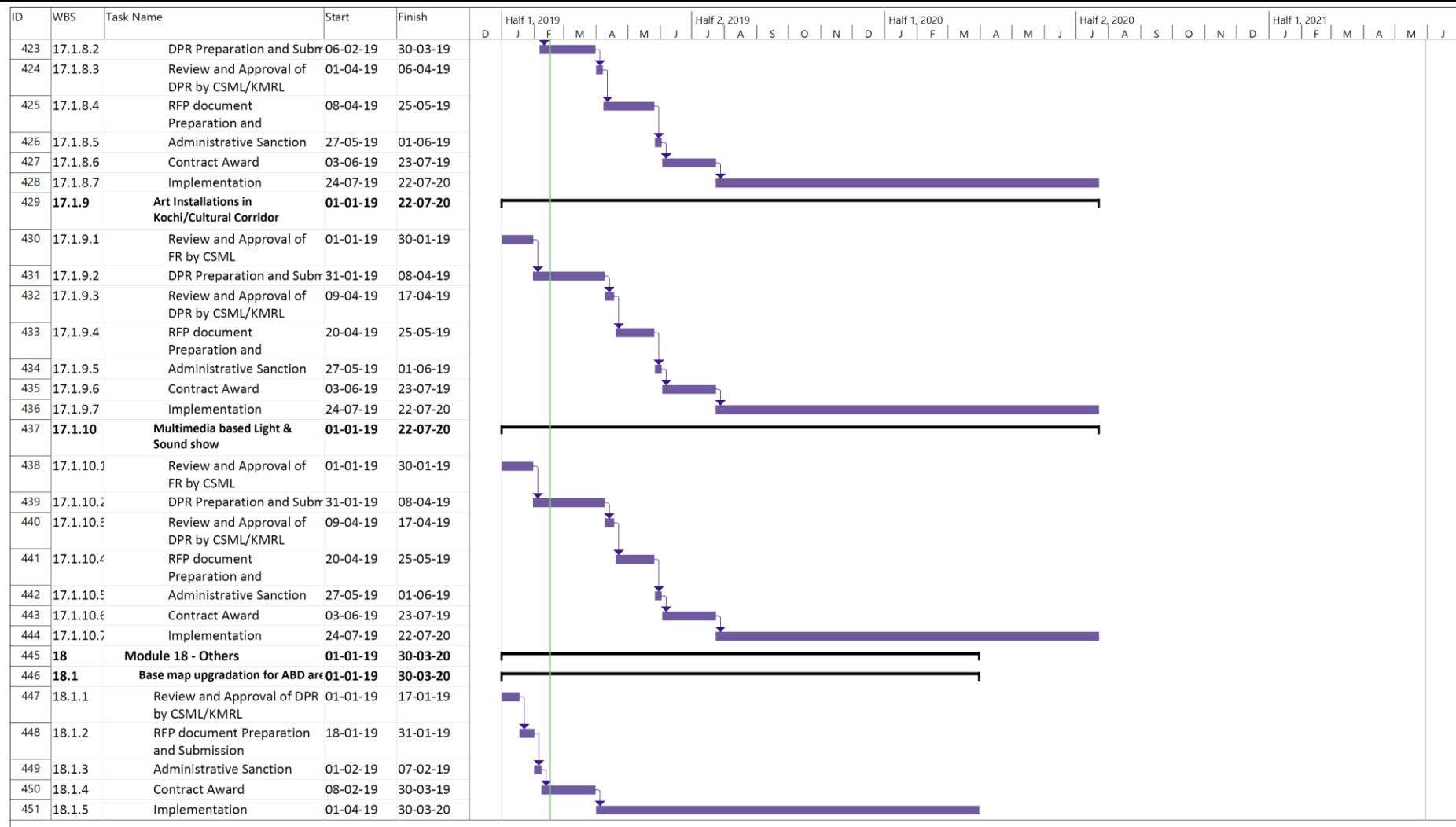




## Monthly Progress Report

ID	WBS	Task Name	Start	Finish	D	Half 1, 2019				Half 2, 2019				Half 1, 2020				Half 2, 2020				Half 1, 2021													
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
394	17.1.4.5	Administrative Sanction	01-03-19	07-03-19																															
395	17.1.4.6	Contract Award	08-03-19	30-04-19																															
396	17.1.4.7	Implementation	02-05-19	30-04-20																															
397	17.1.5	Development of Dutch palace node parking area and palace street entry	01-01-19	30-04-20																															
398	17.1.5.1	Review and Approval of FR by CSML	01-01-19	18-01-19																															
399	17.1.5.2	DPR Preparation and Subm	19-01-19	02-02-19																															
400	17.1.5.3	Review and Approval of DPR by CSML/KMRL	04-02-19	11-02-19																															
401	17.1.5.4	RFP document Preparation and	12-02-19	28-02-19																															
402	17.1.5.5	Administrative Sanction	01-03-19	07-03-19																															
403	17.1.5.6	Contract Award	08-03-19	30-04-19																															
404	17.1.5.7	Implementation	02-05-19	30-04-20																															
405	17.1.6	Fort Kochi Beach Front improvements	01-01-19	30-04-20																															
406	17.1.6.1	Review and Approval of FR by CSML	01-01-19	18-01-19																															
407	17.1.6.2	DPR Preparation and Subm	19-01-19	02-02-19																															
408	17.1.6.3	Review and Approval of DPR by CSML/KMRL	04-02-19	11-02-19																															
409	17.1.6.4	RFP document Preparation and	12-02-19	28-02-19																															
410	17.1.6.5	Administrative Sanction	01-03-19	07-03-19																															
411	17.1.6.6	Contract Award	08-03-19	30-04-19																															
412	17.1.6.7	Implementation	02-05-19	30-04-20																															
413	17.1.7	Mattancherry Walkway	01-01-19	28-07-20																															
414	17.1.7.1	Review and Approval of FR by CSML	01-01-19	18-01-19																															
415	17.1.7.2	DPR Preparation and Subm	19-01-19	30-03-19																															
416	17.1.7.3	Review and Approval of DPR by CSML/KMRL	01-04-19	08-04-19																															
417	17.1.7.4	RFP document Preparation and	09-04-19	31-05-19																															
418	17.1.7.5	Administrative Sanction	01-06-19	08-06-19																															
419	17.1.7.6	Contract Award	10-06-19	29-07-19																															
420	17.1.7.7	Implementation	30-07-19	28-07-20																															
421	17.1.8	Developing a Water & Adventure sports center at Marine drive	01-01-19	22-07-20																															
422	17.1.8.1	Review and Approval of FR by CSML	01-01-19	05-02-19																															

## Monthly Progress Report



## 3 WAY FORWARD

### 3.1 KEY CONCERNS

- No response from KMC in finalisation of vendors for Ernakulam market project
- No discussions from KMC regarding Broadway market project
- No response from KMC regarding housing project.

### 3.2 ISSUES AND CONCERNS

#### Identification of Project

- Projects & scope not yet identified
- PMC to carry out multiple meetings to identify & finalise scope of projects

#### Stakeholder management

- Once broad scope is identified stakeholders are informed
- Delayed response
- Continuous chasing required
- Change in project scope many times
- Multiple stakeholders within same organisation

#### KMC approvals & data

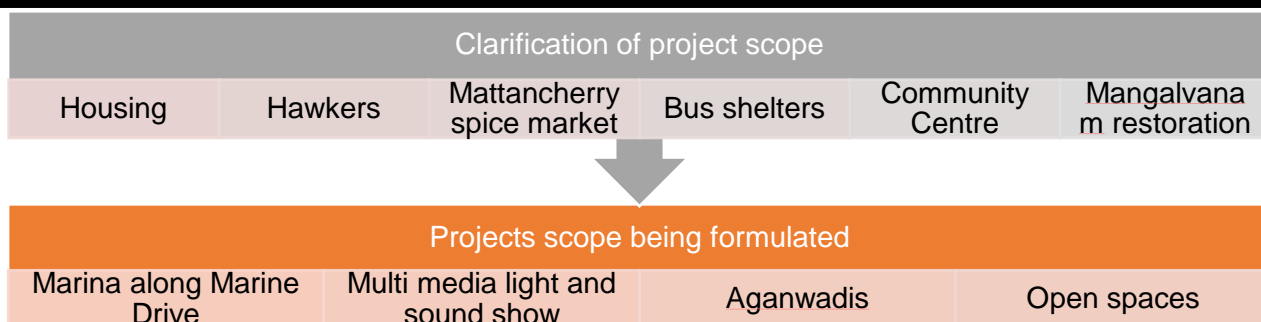
- List of beneficiaries
- List of hawkers
- List of slums
- Timely Site clearances

#### Tendered projects & to be awarded

- Process for taking permissions require purchase of forms, stamp papers for affidavit. CSML to purchase these forms as other stakeholders have not tendered the projects thus, unable to show such costs
- Key agencies yet to appoint nodal person
- Nodal person to assist in provision of data, scope and approvals
- CSML to include nodal officers from key stakeholder (owner of the project from the signing of the contract so that hand over at time of completion is easy and known to owner).

### 3.3 ASSISTANCE REQUIRED

Finalisation of project scope. As we will be entering another year of SCM we need to expedite project scope with stakeholders at the earliest.



### 3.4 OVERALL STAKEHOLDER ROLES & RESPONSIBILITIES

S. No.	Stakeholder	Responsibility
1.	Kochi Municipal Corporation (KMC)	<ul style="list-style-type: none"> <li>▶ Council approval including review and suggestion on proposal</li> <li>▶ Provision of rehabilitation land</li> <li>▶ Conduct public consultations</li> <li>▶ Relocation &amp; rehabilitation (R&amp;R) of existing vendors</li> <li>▶ Carry out O&amp;M post construction</li> <li>▶ Event management</li> <li>▶ Appointment of Nodal Officer for the Project</li> </ul>
2.	Cochin Port Trust	<ul style="list-style-type: none"> <li>▶ Approval for the navigational area, as it should not interfere with inland water routes etc.</li> <li>▶ Approval for the projects within the jurisdiction of Cochin Port Trust</li> </ul>
3.	District Collector	<ul style="list-style-type: none"> <li>▶ Suggestions and approval of related projects</li> </ul>
4.	Police Department	<ul style="list-style-type: none"> <li>▶ Suggestions and approval of related projects</li> </ul>
5.	Kerala Water Authority	<ul style="list-style-type: none"> <li>▶ Integrating the proposed water metering &amp; Sewerage system with KWA SCADA software</li> </ul>
6.	Kerala State Electricity Board	<ul style="list-style-type: none"> <li>▶ Approval of projects as applicable</li> <li>▶ Approval and support in integrating the KSEB control room (APIs) with IC4 project</li> <li>▶ Inspection during implementation of net meters</li> </ul>
7.	RTO – Transport Department	<ul style="list-style-type: none"> <li>▶ Sanctioning of permit and intermediate inspections</li> </ul>
8.	District Tourism Promotion Council	<ul style="list-style-type: none"> <li>▶ Promotion of tourism projects and open spaces projects</li> </ul>
9.	State Water Transport Department	<ul style="list-style-type: none"> <li>▶ Permission to go ahead with the pedestrian link between Ernakulam Jetty and Subhash Park</li> </ul>
10.	Revenue Department	<ul style="list-style-type: none"> <li>▶ Suggestions and approval of related projects within the jurisdiction of Department</li> </ul>
11.	KMRL - Water Metro	<ul style="list-style-type: none"> <li>▶ To incorporate continuous walkway through proposed boat jetties</li> </ul>
12.	Kerala Irrigation Department	<ul style="list-style-type: none"> <li>▶ Approval for utilizing canal surface for pumping stations</li> <li>▶ Approval for discharging treated water into canal</li> </ul>
13.	Cochin Heritage Zone Conservation Society	<ul style="list-style-type: none"> <li>▶ Suggestion and approvals as required</li> </ul>
14.	Fire & Rescue Department	<ul style="list-style-type: none"> <li>▶ Sanctioning of permit and intermediate inspections</li> </ul>

S. No.	Stakeholder	Responsibility
15.	Public, Residential Welfare Associations, NGOs, Social workers	► Public Participation in events organized.
16.	Food Safety and Standards Authority of India (FSSAI)	► Sanctioning of permit and intermediate inspections
17.	District Child Welfare Society	► Permission to go ahead with construction activity in Indira Priyadarshini Children's Park
18.	Vendor Associations	► Assistance with relocation & rehabilitation

## ANNEXURES

### ANNEXURE 1: STAKEHOLDER MEMOS

Department Name:	Commissioner of Police
DIVISION /LOCATION	Office of Commissioner of Police
DATE AND TIME	02.02.2019 at 5.00 pm
Personnel met	Sri M.P Dinesh Commissioner of Police
AGENDA	Implementation of Surveillance System in Kochi
SUMMARY	Surveillance System at Kochi

**Brief of meeting:**

- IT Manager CSML briefed about the Surveillance system project taken up by the Smart City.
- Smart city requested to know about the present Surveillance System which is being monitored by the Kochi Police. Commissioner of Police informed that the present system is obsolete and new system has to be installed for the Surveillance.
- Further He informed to the Smart City team to have meeting with Deputy Commissioner of Police for more information and suggestions.

**List of Attendees from Kochi Smart City Team**

S. No.	Name	Designation and Organization
1	Binnya Joseph	Manager-IT, CSML
2	Davesh Sharma	Project Associate, Smart City, PMC
3	Manish	MIS Specialist, IPE Global, Kochi, Smart City, PMC

<b>Department Name:</b>	<b>Deputy Commissioner of Police</b>
<b>DIVISION /LOCATION</b>	Deputy Office of Commissioner of Police
<b>DATE AND TIME</b>	04.02.2019 at 12.00 pm
<b>Personnel met</b>	Dr.J.Himendranath, Deputy Commissioner of Police (Law & Traffic)
<b>AGENDA</b>	Implementation of Surveillance System in Kochi
<b>SUMMARY</b>	<b>Surveillance System at Kochi</b>

**Brief of meeting:**

- IT Expert, PMC Smart City made a brief presentation on the proposed surveillance system and the functionalities associated with it.
- DCP enquired regarding the monitoring process upon which IT Expert, PMC Smart City informed that monitoring will be done by the Police department.
- PMC Smart City requested data pertaining to the existing situations of the Surveillance system and the locations for installation of CCTV.
- PMC Smart City submitted the checklist for the data requirement and along with the DPR shared by the Kochi Police Department.
- For the Drone Surveillance system, he informed that there is legal issues and also with respect to security points of view, it is not possible at present.
- IT Expert, PMC Smart city informed that in future Drone Surveillance system will be integrated if the project get implemented.

**List of Attendees from Kochi Smart City Team**

S. No.	Name	Designation and Organization
1	Korath V Mathew	IT & e- Governance Expert, Smart City, PMC
2	Davesh Sharma	Project Associate, Smart City, PMC
3	Manish	MIS Specialist, Smart City, PMC

<b>Memo No:</b>	<b>Department Name: Police Department</b>
<b>DIVISION /LOCATION</b>	Inspector General of Police (IG) Office, Ernakulam
<b>DATE AND TIME</b>	16-02-2019, 1.30 pm
<b>Personnel met</b>	Vijay Sakhare, IPS
<b>AGENDA</b>	Presentation about Intelligent Crime Surveillance System
<b>SUMMARY</b>	IG was pleased to know about the project and proposed to extend the project to entire PAN city and promised to lend all necessary support for the project.

**Brief of meeting:****Intelligent Crime Surveillance System:**

- The Senior Manager of PMC gave a brief description about the project.
- The IG of Police, Mr. Vijay Sakhare IPS recommended to implement the project for entire Municipal Corporation Area that is all 74 wards.
- He informed the Smart City team (CSML & PMC) that the current surveillance system of the police Dept. covered all the roads in the city area. Hence, he proposed that Smart City may delete the traffic related information's from the Feasibility report and include other crime occurrence areas like Broadway, market, bus stations, railway stations, bazars etc.
- IG office will provide Smart City team the list of locations after conducting a survey by their officers and after a combined discussion with Officials (IG and his junior officers) and Smart City team. Thereafter IG's team and Smart City team together can analyze the type of cameras to be deployed at each location



- For deploying cameras, the police officials should be briefed about the features, uses, advantages and disadvantages of various types of cameras that were included in the feasibility report. To discuss this aspect, it was decided to conduct another meeting on 18-02-2018 Monday at 4.30 pm.
- Before concluding the meeting, IG mentioned that IG will be formally sharing request to the MD of CSML for extending the Crime Surveillance project to PAN city area instead of a limited ABD area.

**List of Attendees from Kochi Smart City Team:**

S. No.	Name	Designation and Organization
1	Binnya Joseph	IT Manager, CSML
2	Arun Savi	Senior Manager, IPE Global, Kochi Smart City PMC
3	Manish	MIS Expert, IPE Global, Kochi Smart City PMC
4	Devesh Sharma	Analyst, IPE Global, Kochi Smart City PMC
5	Shefeena ks	Research Associate - IT, IPE Global, Kochi Smart City PMC

<b>Department Name:</b>	: Police Department
<b>Division /Location</b>	Inspector General of Police (IG) Office, Ernakulum
<b>Date and Time</b>	20-02-2019, 5.30 pm
<b>Personnel met</b>	Vijay Sakhare, IPS
<b>Agenda</b>	Presentation about Intelligent Crime Surveillance System and discussion about locations and Cameras
<b>Summary</b>	IG recommended to integrate the alerts coming from ITMS and Surveillance Cameras into their existing system.

**Brief of meeting:**

- The IT Expert from PMC gave a brief description about the project
- IG asked about the types of cameras that we are going to implement and their features and difference between them
- He assured us to give the list of location by next week itself.
- He also suggest to integrate the alerts from ITMS and surveillance Cameras into their existing system (MDT) Mobile Data Terminal, so that they can take immediate actions against the incident.
- For getting more details about MDT, he promised to arrange a presentation about MDT at Commissioners Office

**List of Attendees from Kochi Smart City Team**

S. No.	Name	Designation and Organization
1	Korath V Mathew	IT & e- Governance Expert, Smart City, PMC
2	Binnya Joseph	IT Manager, CSML
3	Arun Savi	Senior Manager, IPE Global, Smart City, PMC
4	Shefeena ks	Research Associate, IPE Global, Smart City, PMC

**Tender Details:**

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
1	CSML/Telecom/EOI/001	2018_KMRL_194081_1	EOI FOR SELECTION OF CONCESSIONAIRE FOR IMPLEMENTING INTELLIGENT STREET POLES IN KOCHI ON DBOOT MODEL	24 months + 5 Years O&M	Rs.240 Crores	-	-	-	As per NIT	NIT No. CSML/Telecom/EOI/001 Date: 23/02/2018	1 <sup>st</sup> March 2018 from 14:00 Hours	13 <sup>th</sup> March, 2018 till 17:00 hrs.	14 <sup>th</sup> March, 2018 at 15:00 hrs.	1 <sup>st</sup> April 2018, till 17:30 hrs.	2 <sup>nd</sup> April 2018, till 17:30 hrs.	3 <sup>rd</sup> April 2018, till 15:00 hrs.	3 <sup>rd</sup> April 2018, at 16:00 hrs.	-
									As per Corrigendum-1	TnD No.: CSML/ TND / 2018 /64 /006 Date: 05/03/2018	5 <sup>th</sup> March 2018	-	-	-	-	-	-	-
									As per Corrigendum-2	TnD No.: CSML/ TND / 2018 /64 /013 Date: 28/03/2018	-	-	-	19 <sup>th</sup> April 2018, till 17:30 hrs.	20 <sup>th</sup> April 2018, till 17:30 hrs.	20 <sup>th</sup> April 2018, till 17:30 hrs.	24 <sup>th</sup> April 2018, at 16:00 hrs.	3 <sup>rd</sup> May 2018 to 7 <sup>th</sup> May 2018
									As per Corrigendum-3	TnD No.: CSML/ TND / 2018 /64 /025 Date: 13/04/2018	-	-	-	29 <sup>th</sup> April 2018, till 17:30 hrs.	30 <sup>th</sup> April 2018, till 17:30 hrs.	30 <sup>th</sup> April 2018, till 17:30 hrs.	3 <sup>rd</sup> May 2018, at 16:00 hrs.	14 <sup>th</sup> May 2018 to 18 <sup>th</sup> May 2018
									Minutes of pre-bid meeting & Addendum 1	TnD No.: CSML/ TND / 2018 /64 /020 Date: 13/04/2018								
									As per Corrigendum-4	TnD No.: CSML/ TND / 2018 /64 /033 Date: 30/04/2018	-	-	-	4 <sup>th</sup> May 2018, till 17:30 hrs.	5 <sup>th</sup> May 2018, till 17:30 hrs.	5 <sup>th</sup> May 2018, till 17:30 hrs.	9 <sup>th</sup> May 2018, at 15:30 hrs.	16 <sup>th</sup> May 2018 to 21 <sup>st</sup> May 2018

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
										EOI STATUS REPORT SUBMITTED ON 28/08/2018	-	-	-					
2	CSML/Education/RFP/001	2018_KM RL_1956 24_1	Implementation of Smart Classrooms in Government Schools of Kochi Under Smart City Mission	3 months + 5 Years O&M	Rs. 4.9 Crores	Rs. 1,00,000	Rs. 8,850/-	180 days	As per NIT	NIT No. CSML/Education/RFP/001 Date: 23/02/2018	1 <sup>st</sup> March 2018 from 14:00 Hours	14 <sup>th</sup> March, 2018 till 17:00 hrs.	15 <sup>th</sup> March, 2018 at 15:00 hrs.	1 <sup>st</sup> April 2018, till 17:30 hrs.	2 <sup>nd</sup> April 2018, till 17:30 hrs.	3 <sup>rd</sup> April 2018, till 15:00 hrs.	3 <sup>rd</sup> April 2018, at 17:00 hrs.	
									As per Corrigendum-1	TnD No.: CSML/ TND / 2018 /64 /002 Date: 01/03/2018	5 <sup>th</sup> March 2018	-	-	-	-	-	-	
									As per Corrigendum-2	TnD No.: CSML/ TND / 2018 /64 /003 Date: 05/03/2018	8 <sup>th</sup> March 2018	-	-	-	-	5 <sup>th</sup> April 2018, till 15:00 hrs.	5 <sup>th</sup> April 2018, at 17:00 hrs.	
									As per Revised NIT	NIT No. CSML/Education/RFP/001 Date: 13/03/2018	9 <sup>th</sup> March 2018	18 <sup>th</sup> March 2018 till 17:00 hrs.	19 <sup>th</sup> March 2018 at 15:00 hrs.	2 <sup>nd</sup> April 2018, till 17:30 hrs.	2 <sup>nd</sup> April 2018, till 17:30 hrs.	2 <sup>nd</sup> April 2018, till 17:30 hrs.	5 <sup>th</sup> April 2018, at 17:00 hrs.	
									As per Corrigendum-3	TnD No.: CSML/ TND / 2018 /64 /014 Date: 31/03/2018	-	-	-	-	21 <sup>st</sup> April 2018, till 17:30 hrs.	21 <sup>st</sup> April 2018, till 17:30 hrs.	25 <sup>th</sup> April 2018, at 16:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-4	Tnd No.: CSML/ TND / 2018 /64 /026 Date: 13/04/2018	-	-	-	-	2 <sup>nd</sup> May 2018, till 17:30 hrs.	3 <sup>rd</sup> May 2018, till 17:30 hrs.	7 <sup>th</sup> May 2018, at 16:00 hrs.	
									Minutes of Pre-bid & Addendum 1	Tnd No.: CSML/ TND / 2018 /64 /021 Date: 13/04/2018	-	-	-	-	-	-	-	-
									As per Corrigendum-5	Tnd No.: CSML/ TND / 2018 /64 /032 Date: 27/04/2018	-	-	-	-	8 <sup>th</sup> May 2018, till 17:30 hrs.	11 <sup>th</sup> May 2018, before 15:30 hrs.	11 <sup>th</sup> May 2018, at 15:30 hrs.	
									As per Corrigendum-6	Tnd No.: CSML/ TND / 2018 /64 /036 Date: 08/05/2018	-	-	-	-	15 <sup>th</sup> May 2018, till 17:30 hrs.	18 <sup>th</sup> May 2018, before 15:30 hrs.	18 <sup>th</sup> May 2018, at 15:30 hrs.	
									As per Corrigendum-8	Tnd No.: CSML/ TND / 2018 /64 /043 Date: 16/05/2018	-	-	-	-	18 <sup>th</sup> May 2018, till 17:30 hrs.	22 <sup>nd</sup> May 2018, before 15:30 hrs.	22 <sup>nd</sup> May 2018, at 15:30 hrs.	
									EOI STATUS REPORT SUBMITTED ON	21/08/2018	-	-	-	-				

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
										Cancellation Corrigendum Forwarded	-	-	-	-				
3	CSML/Mobility/EOI/002	2018_KM RL_1969 00_1	Development of Multi Level Car Parking cum Commercial Complex at Kacherippady, Kochi on Design, Build, Finance, Operate and Transfer (DBFOT) Basis under Public Private Partnership (PPP)		Rs. 50 Crores	-	-	-	As per NIT	NIT No. CSML/Mobility/EOI/002 Date: 03/03/2018	12 <sup>th</sup> March 2018 from 14:00 Hours	22 <sup>nd</sup> March, 2018 till 17:00 hrs.	23 <sup>rd</sup> March, 2018 at 15:00 hrs.	12 <sup>th</sup> April 2018, till 17:30 hrs.	13 <sup>th</sup> April 2018, till 17:30 hrs.	17 <sup>th</sup> April 2018, till 15:00 hrs.	17 <sup>th</sup> April 2018, at 16:00 hrs.	
									As per Corrigendum-1	TnD No.: CSML/ TND / 2018 /64 /006 Date: 14/03/2018	16 <sup>th</sup> March 2018	-	-	-	-	-	-	
									As per Corrigendum-2	TnD No.: CSML/ TND / 2018 /64 /008 Date: 21/03/2018	-	9 <sup>th</sup> April 2018, at 17:00 hrs.	10 <sup>th</sup> April 2018, at 15:00 hrs.	22 <sup>nd</sup> April 2018 till 17:30 hrs.	23 <sup>rd</sup> April 2018 till 17:30 hrs.	-	26 <sup>th</sup> April 2018, at 16:00 hrs.	
									As per Corrigendum-3	TnD No.: CSML/ TND / 2018 /64 /030 Date: 19/04/2018	-	-	-	9 <sup>th</sup> May 2018, at 17:30 hrs.	10 <sup>th</sup> May 2018, at 17:30 hrs.	-	14 <sup>th</sup> May 2018, at 15:30 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-4	Tnd No.: CSML/ TND / 2018 /64 /038 Date: 10/05/2018	-	-	-	20th May 2018, at 17:30 hrs.	21st May 2018, at 17:30 hrs.	-	24th May 2018, at 15:30 hrs.	
									Minutes of Pre-bid & Addendum 1	Tnd No.: CSML/ TND / 2018 /64 /042 Date: 15/05/2018	-	-	-	-	-	-	-	-
4	CSML/SWM/RFP/001	2018_KMRL_2018_93_1	RFP for Supply, Operation and Maintenance of Portable Compactor for Secondary Storage & Transportation of Solid Waste.	6 months + 3 Years O&M	Rs. 4.44 Crores	Rs. 1,00,000	Rs. 8,850/-	120 days	As per NIT	NIT No. CSML/SWM /RFP/001 Date: 22/03/2018	28 <sup>th</sup> March 2018 from 14:00 Hours	18 <sup>th</sup> April, 2018 till 17:00 hrs.	19 <sup>th</sup> April, 2018 at 15:00 hrs.	8 <sup>th</sup> May 2018, till 17:30 hrs.	9 <sup>th</sup> May 2018, till 17:30 hrs.	9 <sup>th</sup> May 2018, till 17:30 hrs.	14 <sup>th</sup> May 2018, till 17:00 hrs.	
									As per Corrigendum-1	Tnd No.: CSML/ TND / 2018 /64 /010 Date: 28/03/2018	6 <sup>th</sup> April 2018	-	-	-	-	-	-	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-2	TnD No.: CSML/ TND / 2018 /64 /017 Date: 06/04/2018	12 <sup>th</sup> April 2018	-	-	-	-	-	-	
									As per Corrigendum-3	TnD No.: CSML/ TND / 2018 /64 /022 Date: 12/04/2018	20 <sup>th</sup> April 2018	8 <sup>th</sup> May 2018 till 17:30 hrs.	9 <sup>th</sup> May 2018 till 15:00 hrs.	30 <sup>th</sup> May 2018 till 17:30 hrs.	31 <sup>st</sup> May 2018 till 17:30 hrs.	31 <sup>st</sup> May 2018 till 17:30 hrs.	4 <sup>th</sup> June 2018 till 17:00 hrs.	
									As per Corrigendum-4	TnD No.: CSML/ TND / 2018 /64 /049 Date: 29/05/2018	-	-	-	18 <sup>th</sup> June 2018 till 17:30 hrs.	19 <sup>th</sup> June 2018 till 17:30 hrs.	22 <sup>nd</sup> June 2018 before 15:00 hrs.	22 <sup>nd</sup> June 2018 at 15:00 hrs.	
									As per Corrigendum-5	TnD No.: CSML/ TND / 2018 /64 /060 Date: 19/06/2018	-	-	-	12 <sup>th</sup> July 2018 till 17:30 hrs.	13 <sup>th</sup> July 2018 till 17:30 hrs.	17 <sup>th</sup> July 2018 before 15:00 hrs.	17 <sup>th</sup> July 2018 at 15:00 hrs.	
									As per Corrigendum-6	TnD No.: CSML/ TND / 2018 /64 /067 Date: 13/07/2018	-	-	-	30 <sup>th</sup> July 2018 till 17:30 hrs.	31 <sup>st</sup> July 2018 till 17:30 hrs.	03 <sup>rd</sup> August 2018 before 15:00 hrs.	03 <sup>rd</sup> August 2018 at 15:00 hrs.	



# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-7	Tnd No.: CSML/ TND / 2018 /64 /071 Date: 01/08/2018	-	-	-	15th August 2018 till 17:30 hrs.	16th August 2018 till 17:30 hrs.	21st August 2018 before 15:00 hrs.	21st August 2018 at 15:00 hrs.	
									As per Corrigendum-8	Tnd No.: CSML/ TND / 2018 /64 /078 Date: 20/08/2018	-	-	-	3rd September 2018 till 17:30 hrs.	3rd September 2018 till 17:30 hrs.	6th September 2018 before 15:00 hrs.	6th September 2018 at 15:00 hrs.	
									As per Corrigendum-9	Tnd No.: CSML/ TND / 2018 /64 /084 Date: 03/09/2018	-	-	-	19th September 2018 till 17:30 hrs.	19th September 2018 till 17:30 hrs.	25th September 2018 before 15:00 hrs.	25th September 2018 at 15:00 hrs.	
									As per Corrigendum-10	Tnd No.: CSML/ TND / 2018 /64 /089 Date: 19/09/2018	-	-	-	5th October 2018 till 17:30 hrs.	5th October 2018 till 17:30 hrs.	9th October 2018 before 15:00 hrs.	9th October 2018 at 15:00 hrs.	
									As per Corrigendum-11	Tnd No.: CSML/ TND / 2018 /64 /091 Date: 04/10/2018	-	-	-	26th October 2018 till 17:30 hrs.	26th October 2018 till 17:30 hrs.	30th October 2018 before 15:00 hrs.	30th October 2018 at 15:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-12	Tnd No.: CSML/ TND / 2018 /64 /0100 Date: 26/10/2018	-	-	-	14th November 2018 till 17:30 hrs.	14th November 2018 till 17:30 hrs.	19th November 2018 before 15:00 hrs.	19th November 2018 at 15:00 hrs.	
									As per Corrigendum-13	Tnd No.: CSML/ TND / 2018 /64 /108 Date: 14/11/2018	-	-	-	28th November 2018 till 17:30 hrs.	28th November 2018 till 17:30 hrs.	01st December 2018 before 15:00 hrs.	01st December 2018 at 15:00 hrs.	
									As per Tech Corrigendum-14 & Minutes of Pre-bid Meeting	Tnd No.: CSML/ TND / 2018 /64 /113 Date: 26/11/2018	-	-	-					
									As per Corrigendum-15	Tnd No.: CSML/ TND / 2018 /64 /114 Date: 26/11/2018	-	-	-	11th December 2018, till 17:30 hrs	12th December 2018, till 17:30 hrs	15th December 2018, before 15:00 hrs.	15th December 2018,, at 15:00 hrs.	
										Bid opened on 15th December under evaluation								

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
										Evaluation on the submitted documents finished, but there are some shortfalls. The same was conveyed to the bidder through mail dated 07/01/2019 and till date there is no response from the bidder								
5	CSML/SWM/RFP/002	2018_KMRL_2019_47_1	RFP for Supply, Operation and Maintenance of Mechanized Street Sweeping Machines	4 months + 3 Years O&M	Rs. 3.1 Crores	Rs. 1,00,000	Rs. 8,850/-	120 days	As per NIT	NIT No. CSML/SWM/RFP/002 Date: 22/03/2018	28 <sup>th</sup> March 2018 from 14:00 Hours	17 <sup>th</sup> April, 2018 till 17:00 hrs.	18 <sup>th</sup> April, 2018 at 15:00 hrs.	7 <sup>th</sup> May 2018, till 17:30 hrs.	8 <sup>th</sup> May 2018, till 17:30 hrs.	8 <sup>th</sup> May 2018, till 17:30 hrs.	11 <sup>th</sup> May 2018, till 17:00 hrs.	
									As per Corrigendum-1	TnD No.: CSML/ TND / 2018 /64 /011 Date: 28/03/2018	6 <sup>th</sup> April 2018	-	-	-	-	-	-	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-2	TnD No.: CSML/ TND / 2018 /64 /018 Date: 06/04/2018	12 <sup>th</sup> April 2018	-	-	-	-	-	-	
									As per Corrigendum-3	TnD No.: CSML/ TND / 2018 /64 /023 Date: 12/04/2018	20 <sup>th</sup> April 2018	7 <sup>th</sup> May 2018 till 17:30 hrs.	8 <sup>th</sup> May 2018 till 15:00 hrs.	29 <sup>th</sup> May 2018 till 17:30 hrs.	30 <sup>th</sup> May 2018 till 17:30 hrs.	30 <sup>th</sup> May 2018 till 17:30 hrs.	2 <sup>nd</sup> June 2018 till 17:00 hrs.	
									As per Corrigendum-4	TnD No.: CSML/ TND / 2018 /64 /050 Date: 29/05/2018				20 <sup>th</sup> June 2018 till 17:30 hrs.	21 <sup>st</sup> June 2018 till 17:30 hrs.	26 <sup>th</sup> June 2018 before 15:00 hrs.	26 <sup>th</sup> June 2018 at 15:00 hrs.	
									As per Corrigendum-5	TnD No.: CSML/ TND / 2018 /64 /061 Date: 19/06/2018				16 <sup>th</sup> July 2018 till 17:30 hrs.	17 <sup>th</sup> July 2018 till 17:30 hrs.	19 <sup>th</sup> July 2018 before 15:00 hrs.	19 <sup>th</sup> July 2018 at 15:00 hrs.	
									As per Corrigendum-6	TnD No.: CSML/ TND / 2018 /64 /068 Date: 17/07/2018				31 <sup>st</sup> July 2018 till 17:30 hrs.	01 <sup>st</sup> August 2018 till 17:30 hrs.	04 <sup>th</sup> August 2018 before 15:00 hrs.	04 <sup>th</sup> August 2018 at 15:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-7	Tnd No.: CSML/ TND / 2018 /64 /072 Date: 01/08/2018				16th August 2018 till 17:30 hrs.	17th August 2018 till 17:30 hrs.	23rd August 2018 before 15:00 hrs.	23rd August 2018 before 15:00 hrs.	
									As per Corrigendum-8	Tnd No.: CSML/ TND / 2018 /64 /079 Date: 20/08/2018				4th September 2018 till 17:30 hrs.	4th September 2018 till 17:30 hrs.	10th September 2018 before 15:00 hrs.	10th September 2018 before 15:00 hrs.	
									As per Corrigendum-9	Tnd No.: CSML/ TND / 2018 /64 /085 Date: 03/09/2018				18th September 2018 till 17:30 hrs.	18th September 2018 till 17:30 hrs.	24th September 2018 before 15:00 hrs.	24th September 2018 before 15:00 hrs.	
									As per Corrigendum-10	Tnd No.: CSML/ TND / 2018 /64 /088 Date: 19/09/2018				3rd October 2018 till 17:30 hrs.	3rd October 2018 till 17:30 hrs.	6th October 2018 before 15:00 hrs.	6th October 2018 before 15:00 hrs.	
									As per Corrigendum-11	Tnd No.: CSML/ TND / 2018 /64 /092 Date: 04/10/2018				24th October 2018 till 17:30 hrs.	24th October 2018 till 17:30 hrs.	26th October 2018 before 15:00 hrs.	26th October 2018 before 15:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-12	Tnd No.: CSML/ TND / 2018 /64 /097 Date: 24/10/2018				13th November 2018 till 17:30 hrs.	13th November 2018 till 17:30 hrs.	16th November 2018 before 15:00 hrs.	16th November 2018 before 15:00 hrs.	
									As per Corrigendum-13	Tnd No.: CSML/ TND / 2018 /64 /107 Date: 13/11/2018				27th November 2018 till 17:30 hrs.	27th November 2018 till 17:30 hrs.	30th November 2018 before 15:00 hrs.	30th November 2018 before 15:00 hrs.	
									As per Tech Corrigendum-14 & Minutes of Pre-bid Meeting	Tnd No.: CSML/ TND / 2018 /64 /111 Date: 26/11/2018								
									As per Corrigendum-15	Tnd No.: CSML/ TND / 2018 /64 /112 Date: 26/11/2018				10th December 2018, till 17:30 hrs	11th December 2018, till 17:30 hrs	14th December 2018, before 15:00 hrs.	14th December 2018,, at 15:00 hrs.	
										Bid opened on 14th December under evaluation								

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
										Bids evaluation submitted to BEC Members and they asked to hold the same to get it discussed with MD since it is a single bid. Meanwhile asked to get confirmation on the experience provided from the Competent Authority								
6	CSML/SWM/RFP/003	2018_KMRL_2019_91_1	RFP for Supply of Household and Street Bins for Segregation of Organic and Inorganic wastes Basis under Public Private Partnership (PPP)	3 months	Rs. 0.96 Crores	Rs. 1,00,000	Rs. 8,850/-	120 days	As per NIT	NIT No. CSML/SWM/RFP/003 Date: 22/03/2018	28 <sup>th</sup> March 2018 from 14:00 Hours	16 <sup>th</sup> April, 2018 till 17:00 hrs.	17 <sup>th</sup> April, 2018 at 15:00 hrs.	4 <sup>th</sup> May 2018, till 17:30 hrs.	5 <sup>th</sup> May 2018, till 17:30 hrs.	5 <sup>th</sup> May 2018, till 17:30 hrs.	9 <sup>th</sup> May 2018, till 17:00 hrs.	
									As per Corrigendum-1	TnD No.: CSML/ TND / 2018 /64 /012 Date: 28/03/2018	6 <sup>th</sup> April 2018	-	-	-	-	-	-	



# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-2	Tnd No.: CSML/ TND / 2018 /64 /019 Date: 06/04/2018	12 <sup>th</sup> April 2018	-	-	-	-	-	-	
									As per Corrigendum-3	Tnd No.: CSML/ TND / 2018 /64 /024 Date: 12/04/2018	20 <sup>th</sup> April 2018	4 <sup>th</sup> May 2018 till 17:30 hrs.	5 <sup>th</sup> May 2018 till 15:00 hrs.	28 <sup>th</sup> May 2018 till 17:30 hrs.	29 <sup>th</sup> May 2018 till 17:30 hrs.	29 <sup>th</sup> May 2018 till 17:30 hrs.	1 <sup>st</sup> June 2018 till 17:00 hrs.	
									As per Corrigendum-4	Tnd No.: CSML/ TND / 2018 /64 /051 Date: 29/05/2018				19 <sup>th</sup> June 2018 till 17:30 hrs.	20 <sup>th</sup> June 2018 till 17:30 hrs.	25 <sup>th</sup> June 2018 before 15:00 hrs.	25 <sup>th</sup> June 2018 at 15:00 hrs.	
									As per Corrigendum-5	Tnd No.: CSML/ TND / 2018 /64 /062 Date: 19/06/2018				23 <sup>rd</sup> July 2018 till 17:30 hrs.	24 <sup>th</sup> July 2018 till 17:30 hrs.	26 <sup>th</sup> July 2018 before 15:00 hrs.	26 <sup>th</sup> July 2018 at 15:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-6	Tnd No.: CSML/ TND / 2018 /64 /069 Date: 24/07/2018				13th August 2018 till 17:30 hrs.	14th August 2018 till 17:30 hrs.	18 <sup>th</sup> August 2018 before 15:00 hrs.	18th August 2018 at 15:00 hrs.	
									As per Corrigendum-7	Tnd No.: CSML/ TND / 2018 /64 /076 Date: 14/08/2018				28th August 2018 till 17:30 hrs.	29th August 2018 till 17:30 hrs.	01st September 2018 before 15:00 hrs.	01st September 2018 at 15:00 hrs.	
									As per Pre Bid Meeting & Addendum-I & II	Tnd No.: CSML/ TND / 2018 /64 /077 Date: 14/08/2018								
									As per Corrigendum-8	Tnd No.: CSML/ TND / 2018 /64 /081 Date: 29/08/2018				07th September 2018 till 17:30 hrs.	07th September 2018 till 17:30 hrs.	10th September 2018 before 15:00 hrs.	10th September 2018 at 15:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-9	Tnd No.: CSML/ TND / 2018 /64 /086 Date: 07/09/2018				24th September 2018 till 17:30 hrs.	24th September 2018 till 17:30 hrs.	27th September 2018 before 15:00 hrs.	27th September 2018 at 15:00 hrs.	
									As per Corrigendum10	Tnd No.: CSML/ TND / 2018 /64 /090 Date: 24/09/2018				08th October 2018 till 17:30 hrs.	08th October 2018 till 17:30 hrs.	11th October 2018 before 15:00 hrs.	11th October 2018 at 15:00 hrs.	
									As per Corrigendum11	Tnd No.: CSML/ TND / 2018 /64 /093 Date: 04/10/2018				29th October 2018 till 17:30 hrs.	29th October 2018 till 17:30 hrs.	01st November 2018 before 15:00 hrs.	01st November 2018 at 15:00 hrs.	
									As per Corrigendum-12	Tnd No.: CSML/ TND / 2018 /64 /099 Date: 26/10/2018				16th November 2018 till 17:30 hrs.	16th November 2018 till 17:30 hrs.	22nd November 2018 before 15:00 hrs.	22nd November 2018 at 15:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
										Bid opened on 22nd November under evaluation								
										Technical Bid Evaluation report submitted to BEC and decided submit the samples of Bins to competent Authority for Testing. After getting the report will move on to the next stage.								
10	CSML/Other Road/RFP/006		Development of Other Roads in West Kochi ABD Area under Smart City Mission, Kochi	15 Months including Monsoon		Rs. 60.20 lakh	Rs 59 Thousand		As Per NIT	NIT No. CSML/Other Road/RFP/006	15 <sup>th</sup> Feb 2019	22 <sup>th</sup> Feb, 2019 at 17.00 hrs	25 <sup>th</sup> Feb, 2019 at 15.00 hrs	11 <sup>th</sup> March, 2019 at 17.30 hrs	11 <sup>th</sup> March, 2019 at 17.30 hrs	13 <sup>th</sup> March 2019 at 14.00 hrs	13 <sup>th</sup> March 2019 at 15.00 hrs	
11	CSML/Smart		Development of Smart Roads in	15 Months		Rs 25.10 lakh	Rs 59 Thousand		As Per NIT	NIT No. CSML/Smart	16 <sup>th</sup> Feb 2019	22 <sup>th</sup> Feb, 2019 at 17.00 hrs	25 <sup>th</sup> Feb, 2019 at 15.00 hrs	11 <sup>th</sup> March, 2019 at	11 <sup>th</sup> March,	13 <sup>th</sup> March 2019 at	13 <sup>th</sup> March 2019 at	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
	Roads /RFP/005		West Kochi ABD Area under Smart City Mission, Kochi	including Monsoon						Roads /RFP/005				17.30 hrs	2019 at 17.30 hrs	14.00 hrs	15.00 hrs	
	CSML/Other Road/RFP/004		Development of Other Roads in Ernakulam ABD Area under Smart City Mission, Kochi	15 Months including Monsoon		Rs 36.60 lakh	Rs 59 Thousand		As Per NIT	CSML/Other Road/RFP/004	14 <sup>th</sup> February 2019	21st Feb, 2019 at 17.00 hrs	22 <sup>th</sup> Feb, 2019 at 15.00 hrs	06th March 2019, till 17:30 hrs.	06th March 2019, till 17:30 hrs.	08th March 2019, till 14:00 hrs.	08th March 2019, at 15:00 hrs.	
	CSML/Smart Roads /RFP/003		Development of Smart Roads in Ernakulam ABD Area under Smart City Mission, Kochi	15 Months including Monsoon		Rs 52.10 lakh	Rs 59 Thousand		As Per NIT	CSML/Other Road/RFP/004	14 <sup>th</sup> February 2019	21st Feb, 2019 at 17.00 hrs	22 <sup>th</sup> Feb, 2019 at 15.00 hrs	06th March 2019, till 17:30 hrs.	06th March 2019, till 17:30 hrs.	08th March 2019, till 14:00 hrs.	08th March 2019, at 15:00 hrs.	
	CSML/ Energy Supply / RFP/001		Development of Electrical Infrastructure in ABD Area under Smart City Mission	18 months (including monsoon period)		Rs 54.50 lakh	Rs 59 Thousand		As Per NIT	CSML/ Energy Supply / RFP/001	1st March 2019	21st March 2019 till 17:00 hrs.	25th March, 2019 at 15:00 hrs.	24th April 2019, till 17:30 hrs.	25th April 2019, till 17:30 hrs.	29th April 2019, till 14:00 hrs.	29th April 2019, at 15:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
	CSML/ENERGY/RFP/002	2018_KMRL_240720_1	"IMPLEMENTATION OF SMART LED LIGHTS IN ABD AREA OF KOCHI SMART CITY UNDER SMART CITY MISSION"	18 months + 5 Years O&M including 12 months of DLP period	Rs. 35.84 Crores	Rs. 36,00,000	Rs. 59,000/-	180 days	As per NIT	NIT No. CSML/ENERGY/RFP/002 Date: 26/12/2018	26th December 2018	8th January, 2019 till 10:00 hrs.	8th January, 2019 at 15:00 hrs.		23rd January, 2019, till 17:30 hrs.	25th January, 2019, before 15:00 hrs.	25th January, 2019, at 16:00 hrs.	
									As per Corrigendum-1	Tnd No.: CSML/ TND / 2018 /64 /126 Date: 04/01/2019		10th January, 2019 till 10:00 hrs.	10th January, 2019 at 15:00 hrs.	-	-	-	-	
									As per Corrigendum-2	Tnd No.: CSML/ TND / 2018 /64 /0127 Date: 10/01/2019	21st January 2018 at 12 hrs.							
									As per Corrigendum-3 BOQ CORRIGENDUM	Tnd No.: CSML/ TND / 2018 /64 /0 Date: 21/01/2019								
									As per Corrigendum-4	Tnd No.: CSML/ TND / 2018 /64 /0128 Date: 23/01/2019					6th February, 2019, till 17:30 hrs.	8th February, 2019, before 15:00 hrs.	8th February, 2019, at 16:00 hrs.	

# Monthly Progress Report

Sl. No.	Tender Reference Number:	Tender ID:	Project Name:	Project duration	Estimated Cost of the work	Earnest Money Deposit (EMD)	Tender submission fee (Rs.)	Bid Validity	NIT / CORRIGENDUM	No. and date	Bid Document Downloading Start Date	Last date for sending pre-bid queries	Date, Time of Pre-bid Meeting	Last date for Online Purchase of Tender Document	Last date of Online Submission of Bids	Last date of EMD + Hard Copy POA	Date & Time for Opening of Bids	Date for Presentation of design, Implementation, operation, maintenance Opening of Bids
									As per Corrigendum-5	Tnd No.: CSML/ TND / 2018 /64 /0129 Date: 06/02/2019					14th February, 2019, till 17:30 hrs.	16th February, 2019, before 15:00 hrs.	16th February, 2019, at 16:00 hrs.	
									Prebid Minutes	Tnd No.: CSML/ TND / 2018 /64 /0130 Date: 11/02/2019								
									Addendum I	Tnd No.: CSML/ TND / 2018 /64 /0131 Date: 11/02/2019								
									Corrigendum 6 (Technical)	Tnd No.: CSML/ TND / 2018 /64 /0132 Date: 11/02/2019								
									As per Corrigendum-7	Tnd No.: CSML/ TND / 2018 /64 /0134 Date: 13/02/2019					21th February, 2019, till 17:30 hrs.	25th February, 2019, before 15:00 hrs.	25th February, 2019, at 16:00 hrs.	

