National Mission for Clean Ganga

Format for submission of Monthly Progress Report in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Karnataka

Overall status of the State:

I. **Total Population:** Urban Population & Rural Population separately

II. **Estimated Sewage Generation:** 3356.5 MLD

III. Details of Sewage Treatment Plant:

- **Existing no. of STPs and Treatment Capacity:** 146 STPs, Capacity = 2561 MLD
- **Capacity Utilization of existing STPs:** 1704 MLD, percent utilization = 66.5%
- **MLD of sewage being treated through Alternate technology:** 4.53 MLD through Fecal Sludge and Septage Management (2.26 MLD in Devanahalli and 2.27 MLD in Nelamangala)
- **Gap in Treatment Capacity in MLD:** 795 MLD, percentage gap = 23.7%
- **No. of Operational STPs:** 136 STPs
- **No. of Complying STPs:**
- **No. of Non-complying STPs:**

a. Details of each existing STP in the State: (Annexure 1a, 1b and 1c)

b. Details of under construction STPs in the State: (Annexure 2)

c. Details of proposed STPs in the State: (Annexure 3a, 3b)

d. Progress for under construction and proposed STP is annexed as Annexure 3c

IV. Details of Industrial Pollution:

- **No. of industries in the State:** 16955 (Red and Orange Category)
- **No. of water polluting industries in the State**:
- **Quantity of effluent generated from the industries in MLD:** 663 MLD

- **Quantity of Hazardous Sludge generated from the Industries in TPD:**
- **Number of industrial units having ETPs:** 4158 (Red and Orange Category)
- **Number of industrial units connected to CETP:** 733
- **Number and total capacity of ETPs (details of existing/ under construction / proposed):** 4158 ETPS, Total Capacity = 663 MLD (details in Annexure 4)
- **Compliance status of the ETPs:**
- **Number and total capacity of CETPs (details of existing/ under construction / proposed):** 10 CETPs, Installed Capacity = 2975 KLD; Operational Capacity = 2045 KLD (details in Annexure 5)
- **Status of compliance and operation of the CETPs**

V. **<u>Solid Waste Management:</u>**

- **Total number of Urban Local Bodies and their Population:**
- Other than Bengaluru: 279 ULB, population = 1,45,41,508.
- BBMP: 198 wards of BBMP, population = 84,00,000
- **Current Municipal Solid Waste Generation:** 12,258.2 TPD
- **Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), biomethanation, MRF etc**

	Composting		Vermi composting		Bio-methanation		Refuse Derived Fuel		W2E	Combustible waste supplied to cement plant
	Waste processed	Final product produced	Waste processed	Final product produced	Waste processed	Final product produced	Waste processed	Final product produced	Waste processed	
Other than Bangalore	1614.98 (TPD)	207.856(TPD)	86.16(TPD)	17.435(TPD)	7.75(TPD)	0.06(TPD)	2.1(TPD)	2.1(TPD)	1(TPD)	17

BBMP	200356.3 (TPA)	26,046 TPA	Nil	Nil	6	65 cubic meter	0	0	0	nil

- **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%):** Annexure 6a
- **No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)**
- **Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source**
- **Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)**
- **No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.**
- **No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers**
- **No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers**

Status of ULB wise Management of Solid Waste: (Annexure 6b)

VI. Bio-medical Waste Management:

- **Total Bio-medical generation:** 65.6 TPD + 1600 tones of COVID waste
- **No. of Hospitals and Health Care Facilities:**
- **Status of Treatment Facility/ CBMWTF:** 65.6 TPD (CBMWTF = 61.5 TPD, deep burial = 4.1 TPD); COVID waste incinerated = 1600 tones

VII. Hazardous Waste Management: Annexure 6c

- **Total Hazardous Waste generation:** 986.3 TPD
- **No. of Industries generating Hazardous waste**
- **Treatment Capacity of all TSDFs**

- **Avg. Quantity of Hazardous waste reaching the TSDFs and Treated**
- **Details of on-going or proposed TSDF**

VIII. <u>Plastic Waste Management:</u>

- **Total Plastic Waste generation:** 627.4 TPD
- **Treatment/ Measures adopted for reduction or management of plastic waste:** Projects commencing under "waste to energy" initiative by BBMP to address the gap in MSW treatment. MSW treatment gap in northern part Karnataka is addressed by instructing all the cement industries to efficiently utilize the dry waste for Co-generation.

IX. Details of Alternate Treatment Technology being adopted by the State/UT:

List of the ULBs wherein the Fecal Sludge and Septage Management facilities are being implemented is annexed as Annexure 7.

X. **Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:** List of the drains contributing to the pollution of the 17 Polluted River Stretches is annexed as Annexure 8

XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT:

XII. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:

XIII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river: Annexure 9

XIV. **Ground water regulation:** In order to control over exploitation of groundwater, the State Government has enacted the Karnataka Groundwater (Regulation and control of Development and Management) Act 2011, Rules 2012. As per the section 10 of the Act 2011 the areas will be notified. There is a restriction to drill a new bore well in the notified taluks. As per section 11 of the Act 2011, prior permission from the competent authority should be taken to drill a new bore well in the notified area. Registration of drilling rigs is made compulsory to drill bore well in any part of the State. The registration certificates issued in form-7A by the Karnataka Groundwater Authority. Any commercial user of groundwater for industry / infrastructure / mining / entertainment purposes, must obtain permission / NOC from Karnataka Groundwater Authority (KGWA).

XV. **Good irrigation practices being adopted by the State:** Department of Agriculture and Horticulture have submitted an action plan for the implementation of the following measures: (a) farmers are made aware to use irrigation water optimally. (b) Adopting micro irrigation system (sprinkler and drip) in agricultural crops. (c) Crop rotation is encouraged

XVI. Rain Water Harvesting:

XVII. Demarcation of Floodplain and removal of illegal encroachments:

XVIII. **Maintaining minimum e-flow of river:** Flow data of Hydrological observation Sites is available in Central water commission Website and further implementation from irrigation department will be initiated.

XIX. Plantation activities along the rivers:

XX. **Development of Biodiversity Park:** the Forest Department has submitted an action plan for planting the samplings on the bank of the Polluted River Stretch of

Arkavathi, which specifies the plantation of sapling and creating of Eco Park. Rs. 13.49 Cr has been ear-marked and a time-frame of March 2024 has been set.

XXI. **Reuse of Treated Water:** Treated wastewater from Bengaluru is used for refilling tanks in Kolar (400 MLD) and Chikkaballapura (100 MLD) and watering the Bengaluru International Airport (BIA), Golf courses and park premises (lalbhag, Cubbon park etc.)

XXII. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: Tungabhadra will be adopted as the model river by Karnataka. The rejuvenation of Tungabhadra has been initiated by approving the installation of four Real Time Water Quality Monitoring Stations (RTWQMS). The following sites are proposed for the installation of RTWQMS. Advanced Centre for Integrated Water Resources Management (ACIWRM) is proceeding with procurement and installation process.

Sl No	Location	Co-ordinates
1	Bridge across river Tungabhadra on Harihara-Sivamogga road, near Harihara town, upstream of HPF	Lat: 14º 31’ 01’’ Long: 75º 47’ 59’’
2	Jackwell point well on river Tungabhadra, downstream of HPF	Lat: 14º 32’ 55’’ Long: 75º 48’ 10’’
3	Tunga river, downstream of Sivamogga (Taralabalu School campus)	Lat: 13º 56’ 25’’ Long: 75º 35’ 58’’
4	Bhadra river near Water Treatment Plant (WTP) of Holehonnur village	Lat: 13º 59’ 11’’ Long: 75º 41’ 02’’

XXIII. Status of Preparation of Action Plan by the 13 Coastal States:

XXIV. Regulation of Mining Activities in the State/UT: Annexure 10

XXV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:

Annexure 1a: Existing STP in Bengaluru								
Sl.No	**District Name**	**Location of STP**	**Status**	**Treatment Plant Capacity in MLD**	**Actual Capacity Utilized(in MLD) for Functional Plants**	**Technology Used**	**Use of treated sewage with quantity**	**Used by**
1	Bangalore Urban	Rajacanal	Operational	40	40	Activated Sludge Process (ASP)	40	35 MLD to recharge 65 tanks of Chikkaballapura 5 MLD to Devanahalli
2	Bangalore Urban	Rajacanal	Operational	40	40	Extended Aeration	40	To recharge 65 tanks of Chikkaballapura
3	Bangalore Urban	Jakkur	Operational	15	15	Moving Bed Biofilm Reactor (MBBR)	15	For 40 recharging 65 lakes of Chikkaballapura
4	Bangalore Urban	K & C Valley	Operational	248	210	Extended Aeration	210	Karnataka Golf Association
5	Bangalore Urban	Horamavu	Operational	20	20	Sequencing Batch Reactor (SBR)	20	To recharge 65 tanks of Chikkaballapura
6	Bangalore Urban	Sarakki	Operational	5	4	Sequencing Batch Reactor (SBR)	5	Proposal to recharge existing Sarakki Lake
7	Bangalore Urban	Bellandur Amanikere	Operational	90	50	Activated Sludge Process (ASP)	50	For recharging 126 lakes of Kolar District
	Bangalore Urban	V Valley	Operational		10	High Rate Clarifier DENSADEG	10	M/s. Arvind Mills, M/s. Wonder Blues, M/s. Nandi Economic Corridor Enterprises
8	Bangalore Urban	Lalbagh	Operational	1.5	1.5	Activated Sludge Process and UV method	1.5	Horticulture Department
9	Bangalore Urban	Cubbon Park	Operational	4	4	membrane Bio Reactor (MBR)	4	Horticulture Department, Rajbhavan, Hon'ble High Court, Bangalore Golf Course, Planatarium, War Memorial, CID, Vidhana Soudha, KPSC, KPWD, Civil Court
10	Bangalore Urban	Hebbal	Operational	60	60	Activated Sludge Process (ASP)	32	Presently to Nagavarakere, Proposal to recharge 65 tanks of Chikkaballapura

11	Bangalore Urban	Yelhanka	Operational	10	5	Activated Sludge Process (ASP)	5	M/s. Kempegowda International Airport Limited, M/s. Indian Tobacco Company, M/s. Indian Air Force, M/s. Bharath electronics lomited, M/s. Rail Wheel Factory, Prestige, Emabassy and Excess effluent to Allasandra Lake
12	Bangalore Urban	Yelemelle chellappa chetty	Operational	15	13	Sequencing Batch Reactor (SBR)	13	Yelemallappa Chetti kere
13	Bangalore Urban	Chikkabanavara	Operational	5	4.5	Sequencing Batch Reactor (SBR)	4.5	To SWD
14	Bangalore Urban	Mailsandra	Operational	75	75	Activated Sludge Process (ASP)	75	Bhagyalakshmi farms and M/s. Tangline Developers (Global Village). Balance to SWD
15	Bangalore Urban	V Valley	Operational	180	70	2 stage trickling filter	70	10 MLD to tertiary plant, balance to SWD
16	Bangalore Urban	Kempambudhi	Operational	1	1	Activated Sludge Process (ASP)	1	Kempambudhi Lake
17	Bangalore Urban	Mallathahalli	Operational	5	5	Sequencing Batch Reactor (SBR)	5	2.5 MLD to Malathalli Lake and 2.5 MLD to Ullal Lake
18	Bangalore Urban	Kadugodi	Operational	6	3.5	Sequencing Batch Reactor (SBR)	3.5	Presently letting into SWD. Proposal to HPCL 2 MLD increasing to 6 MLD with completion of pipeline work for which work is under process
19	Bangalore Urban	Halasuru	Operational	2	1.8	Sequencing Batch Reactor (SBR)	1.8	Halasuru Lake
20	Bangalore Urban	Nagasandra	Operational	20	9	Sequencing Batch Reactor (SBR)	9	To SWD
21	Bangalore Urban	Nagasandra	Operational	20	16	Extended Aeration	16	To SWD
22	Bangalore Urban	K R Puram	Operational	20	20	Upflow Anaerobic Sludge Blanket Reactor (UASB)	20	Vengaiana Kere
23	Bangalore Urban	Doddabele	Operational	40	20	Sequencing Batch Reactor (SBR)	20	Presently to SWD. Disposal sewer line linking work in progress
24	Bangalore Urban	Kadabeesanahalli	Operational	50	42	Activated Sludge Process (ASP)	42	Presently letting into SWD - Proposed for future utilisation in KIADB Industrial Area et
25	Bangalore Urban	K & C Valley	Operational	60	50	Activated Sludge Process (ASP)	50	For recharging 126 lakes of Kolar District
26	Bangalore Urban	Kengeri	Operational	60	40	Activated Sludge Process (ASP)	40	Disposal sewer line linking work in progress
27	Bangalore Urban	Doddabele	Operational	20	20	Sequencing Batch Reactor (SBR)	20	Presently to SWD

28	Bangalore Urban	Hulimavu	Operational	10	10	Sequencing Batch Reactor (SBR)	10	
29	Bangalore Urban	Agaram	Operational	35	35	Sequencing Batch Reactor (SBR)	35	
		Total		**1157.5**	**895.3**		**868.3**	

Annexure 1b: Existing Sewage Treatment Plants other than Bengaluru

SL No	City/Town	No.of STP	Location of each STP	Coordinates of STP Latitude and	STP Commissioned	Status (Operational/Non	STP Installed Capacity in	Technology
1	Hubballi-Dharwad	2	**Gabbur in Hubballi**	"Lat:15.305 Log:75.140"	2015	Operational	40.00	SBR
2			**Madihal in Dharwad**	"Lat:15.471 Log:75.029"	2018	Operational	20.00	SBR
3	Ranebennur	2	**Hullatti**	"Lat-14.33.44N Log: 75.37.44 E"	2018	Operational	7.50	FAL
4						Operational	7.50	FAL
5	Davangere	1	**Shivanagar, Davanagere**	"Lat:14.496 Log:75.920"	2017	Operational	20.00	SBR
6		2	**Avaragere**	"14°27'17.6""N 75°57'03.5""E"	2018	Operational	5.00	SBR
7			**Shivanagar**	"14°29'44.7""N 75°55'10.7""E"	2018	Operational	20.00	SBR
8	Vijayapura	1	**Indi Road, Vijayapur**	"Lat: 16.84N Log: 75.72E"	2019	Operational	31.00	FAL
9	Gokak	1	**Maldinni Village**		2018	Operational	8.70	FAL
10	Jamkhandi	1			2017	Operational	7.60	FAL
11	Kalburagi	1	**Nandikoor Village Kalaburagi**	"Lat - 17o16'25.7"" Long -	2017	Operational	40.00	SBR
12	Raichur	2	**Eklaspur**	Lat-16.23 N & Log-77.33 E	2019	Operational	20.00	FAL
13			**Hosur**	Lat-16.18 N & Log-77.33 E	2019	Operational	8.00	FAL
14	Chamarajanagar	1	**Goodhitittu**		2019	Operational	9.00	FAL
15	Tiptur	1	**HuchagondanahalliSy No 53**	13"16"49'N	2017	Operational	6.00	SBR
16	Doddaballapur	1	**Majarahosahalli Sy No.35**	13.2957° N, 77.5364° E	2016	Operational	12.00	WSP
17	Chikkaballapur	1	**Gopala Krishna Ammnikere Sy No.360**	13.4355° N, 77.7315° E	2014	Operational	10.00	WSP
18	Guledgudda	1	**Padanakatti Village**	16°3'7.56"N 75°48'58.66"E	1970	Non operational		OP
19	Ilkal	1	**Ingalgi Village Near Ilkal city**	15°59'14.54"N 76°7'39.34"E	Not Commissioned	Non Operational	4.00	OP
20	Badami	1	**Behind Veerpulikesh Education Institution, Yaragoppa Road , Badami**	15°54'30.60"N 75°40'20.67"E	2013	Operational	8.50	WSP
21	Mudhol	1	**Near Yadahalli-Ingalgi road Mudhol**	16°18'40"N 75°20'10"E	2017	Non Operational due to no HSC & non commissioning of 11kv express feeder main to wet well	4.30	WSP
22	Bilagi	1	**Towards Korthi Road Distance 2 KM Away from city limit**	16°21'38.29"N 75°37'26.24"E	2017	Operational	9.06	WSP
23	Hunagund	1	**Ramawadagi Village Road**	16°4'37.47"N, 76°4'43.38"E	2019	Non operational	3.00	OP
24	Bailhongal	1	**Anigol Road, Bailhongal.**	15°48'05.37"N 75°51'38.09"E	2017	Operational	3.50	Aerated Lagoon type
25	Chikkodi	1	**HIREKODI**	16°45'30.47"N 74°57'12.54"E	2018	Working	8.28	Waste stabilisation ponds
26	Bellary	1	**15 MLD at Clow Bazaar**	15° 8'17.51"N / 76°57'6.86"E	2004	Operational	3.72	Faculative Aerated Lagoon
27		1	**30MLD Annathapur Road**	15° 7'41.70"N / 76°54'30.99"E	2004	Operational	30.00	Faculative Aerated Lagoon

28	Hadagali	1	**2nd Ward Navali Road Near Old Filter House Hadagali**	15017'58.6" N / '76023'11.5" E	28.09.2016	Operational	27.00	Waste Stabilisation Ponds
29	Kanakapura	1	**Aralalu Village**	12.526983, 77.418763	2014	Operational	4.27	WSP
30	Magadi	1	**PURA GRAMA**	12.925136, 77.228752	2014	Operational	6.29	WSP
31	Anekal	2	**Doodakere & Aldenahalli**	12.709911, 77.687087 12.719958, 77.706862	2018	Operational	3.70	SBR
32	Kollegal	1	**Mullur road, kollegal ward no 5**	12.15 deg N and 77.11 deg E	2005	Operational	6.40	WSP
33	Gundlupet	2	**Zone 'A' HOSURU**	11.81 deg N and 76.69 deg E	2017	Operational	3.30	WSP
34			**Zone 'B' VIJAYAPURA**	11.80 deg N and 76.69 deg E	2019	Operational	2.50	WSP
35	Chamarajanagar	1	**Budititu village**	11.94deg N and 76.97 deg E	2018	Operational	1.50	WSP
36	Chikmagalur	1	**Chennapura Road, Chikkamagaluru**	13^{o}18' 05" N	2019	Operational	9.00	MBBR
37	Birur	1	**Hindu Rudrabhoomi, Yagati Road, Birur**	13^{0}36' 19" N 75^{0}58' 49" E	2017	Operational	20.00	WSP
38	Chitradugra	1	**Beside Railway Track, Near NH4, Chitradurga**	latitude 14° 23' longitude 76° 40'	Mar/19	operational	2.64	SBR
39	Harapanahalli	1	**Narayanapura (Harapanahalli taluk)**	43P 604197.16m E 43P 1635173.48m N	Mar/16	Operational	20.00	Waste Stabilzation pond
40	Davangere	1		43P 594437.95m E	Mar/15	Operational	7.92	Waste Stabilzation pond
41	Honnali	1	**Malladevarakatte**	43P567661.09m E	Jan 2017	Operational	14.80	Waste Stabilzation pond
42	Mangaluru(Pachanady)	1		12'53'7" 74'50'22"	2011	Operational	3.30	UASB
43	Mangaluru(Kavoor)	1		12'53'7", 74'50'22"	2008	Operational	8.75	MBR
44	Mangaluru(Surathkal)	1		12'53'7" 74'50'22"	2016	Operational	43.50	ASP
45	Mangaluru(Bajal)	1		12'53'7" 74'50'22"	2015	Operational	16.50	ASP
46	Sulia	1	**Oldgate,Hosagadde, Sullia**	12o 34 '11" N 75o23'41" E	2010	Operational	20.00	WSP
47	Belur	2	**River Street Behind Ayyappa Swamy Temple**	13^{0}09' 59" N 75^{0}52' 23" E 13^{0}10' 19" N 75^{0}52' 19" E	2008 2013	Operational	12.00	WSP
48	C.R Patna	1	**Gadderameshwara badavane**	12° 53' 23" N 76° 23' 45" E	2007	Operational	2.70	WSP
49	Hassan	1	**Bittagowdanahalli**	12° 58' 41" N 76° 05' 30" E	2011	Operational	4.60	WSP
50	H. N Pura	1	**Tattekere Grama**	12° 47' 47" N 76° 16' 12" E	2004	Operational	10.00	WSP
51	Kalburgi	3	**Near Nandikur Village**	17^{0} 16' 25"	2016	Operational	3.00	SBR
52			**Near Nandikur Village**	17^{0} 16' 25"	Under construction	Operational	40.00	SBR
53			**Near Kapnoor Village Sy. No. 69/2 & 69/3**	17^{0} 22' 25" 76^{0} 52' 40"	2019	Operational	20.00	SBR
54	Jewargi	1	**Jewargi Town Near Kalaburagi Road**	17^{O} 01' 28.5" N 76^{O} 46' 37.2" E	2011	Operational	25.00	WSP
55	Chittapura	1	**Chittapura Town Sy. No. 82/2**	17^{O} 08' 08" N	2017	Operational	3.25	WSP
56	Kolar	1	**Near Siddhartha school ,manighatta main Road ,gandhi nagara kolar**	13°9'14.2"N/ 78°8'52.5"E	2011	Operational	5.10	WSP

57	Srinivasapura	1	**Hebbata kere**	13°19'7"N/ 78°13'6.3"E	2010	Operational	10.16	WSP
58	Chintamani	1	**Near Gopasandra Tank**	13°23'53.61"N/	2005	Operational	3.00	WSP
59	Siddlaghatta	1	**Bellutti lake**	13°22'29.09"N/	2004	Operational	2.00	WSP
60	Malur	1		13°0'18.36"N/	2016	Non Operational	3.10	SBR
61	Gangavathi	1	**Hire Janthkal**	15'41"08" N /	2019	Operational	4.00	Activated Sludge Process (ASP)
62	Maddur	1	**Hole AnjananeyaTemple**	120 35'18.20" N 770 03'36.65" E	2005	Operational	14.00	WSP
63	Mandya	2	**1. Yathagadahalli Road 2. Chikkegowdana Doddi**	12 30 N 76 50 E	C. G. Doddi-2007 Guthalu- 2009	Operational	3.50	C.G. Doddi - O P Guthalu - WSP
64	SR Patna	2	**Chandagalu road Ganjam, Srirangapatna**	120 24'24.20" N 760 41'36.76" E	2014	Operational	18.42	WSP
65	Nagamangala	1	**Gaddebhuvanahalli**	120 49'23.91" N 760 47'00.53" E	2014	Operational	3.60	WSP
66	Malavalli	1	**Goudgere**	12^0 23'30.28" N 770 05'49.59" E	2016	Operational	3.00	WSP
67	Mysore	3	**Rayanakere**	12'14"30.07N 76'37"14.51E	2003	Operational	5.65	Faculative Aerated Lagoon
68			**Vidyaranyapuram**	12'16"17.76N	2001	Operational	60.00	Faculative Aerated Lagoon
69			**Kesare**	12'21"00.00"N	2001	Operational	67.50	Faculative Aerated Lagoon
70	Nanjangud	1	**NH-80 chamarajanagara-nanjangud road opposite kalammagudi temple**	12.10 deg N and 76.70 deg E	2017	Operational	30.00	WSP
71	Bannur	1	**Mandya Road Bannur**	12.20 deg N and 76.52 deg E	2010	Operational	7.00	WSP
72	Hunsur	1	**Kalkunike**	12.19 deg N and 76.17 deg E	2000	Operational	2.50	Oxidation Pond
73	K.R.Nagar	2	**1) Kantenahalli, 2)Madhuvana halii**	a. 12.26 deg N and 76.23 deg E (Kantenahalli)	1998 2002	Operational Operational	3.91	WSP WSP
74	Ramanagar	1	**Archakarahalli**	12°70'31.68" N	2004	Operational	5.50	Aerator Lagoon
75	Jatpat Nagara	1	**Jatpat Nagara**	Latitude	2010	Operational		WSP
76	Near Thyavarechatnahalli	1	**Near Thyavarechatnalli**	Latitude 130 56' 38.00" N	2017	Operational		Aerated Lagoon
77	Near Ambaragoppa cross	1	**Ambaragoppa Village Cross**	Latitude 140 17' 03.7" N	2019	Commissioned and Non Operational		SBR
78	Tumkur	1	**Bheemasandra village, City corporstion Tumakuru**	Latitude 13°20'25.67"N Longitude 77°4'27.41"E	2003	Operational	5.00	Aerated Lagoons
79	Turuvekere	1	**Bidiswaste Sy No 101/1, 101/2, 103/1, 103/2 and others**	Latitude 13 10' 13.74" N Longitude	2014	Commissioned and Non Operational	24.57	UASB (Waste Stabilization ponds)
80	Udupi	1	**Nittur**	13.358753 and 74.742553	2007	Operational		Faculative Aerated Lagoon
81	Karkala	1	**Hawaldharbettu**	13o21273" N 74o986117" E	1993	Operational	12.50	Oxidation Pond
82	Bhatkal	1	**Venktapura bhatkal**	14.0168	2006	Operational	3.00	Waste stabilisation Bond
83	Karwar	1	**Gandhi nagar Near KEB Karwar**	14.802614	2011	Operational	1.50	Aerator Lagoon

84	Basavana Bagewadi	1	**Ivanagi Road Basavana Bagewadi**	16o33'05" N 75o58'43" E	2013	Operational		WSP
85	Indi	1	**Ahirasang Road Indi**	17°11'35.11"N	2015	Operational	4.02	WSP
86	Talikote	1	**RTC NO Survey No- 45/2, 3,4,5,RTC-66/2/1,58 Harnal Road, Talikote**	16o45'42" N 76o31'55" E	2016	Operational	4.02	WSP
87	Bidar	1	**Goornalli B Village Bidar 02 nos and naubad 01 no**	Lattitude - 17.891185 N Longitude - 77.521027 E	Aug/17	Non- Operational	10.00	Aerated Lagoon Type
88	Chikkaballapura	1	**Gopala Krishna Ammnikere Sy No.260**	13°25'20.22"N/ 77°44'35.69"E	2014	Operational	17.26	WSP
		93					1074.50	

Annexure 1c: Exsisting STP status of Karnataka KUIDFC

SL No	ULB name	CC/CMC/TMC/TP	Popullation as per census 2011	Sewage generation (MLD)	Existing treatment Capacity (MLD)	Actual Sewage treated (MLD)
1	Doddaballapura	CMC			12	7
2	Tipatur	CMC			6	3
3	Chikkaballapura	CMC			10	7
4	Davanagere	CC	435125.00	37.5	20	20
5					20	15
6					5	2.5
7	Harihara	CMC	83219.00	-	18	1
8	Chamarajanagara	CMC	69875.00	8.00	9.00	4.5
9	Gokak	CMC	79121.00		8.70	1.50
10	Ilakal	CMC	58111.00	7.55	8.00	2.00
11	Jamakhandi	CMC	68938.00		7.60	2.00
12	Rabakavi-Banahatti	CMC	77004.00		9.20	Commissioned. HSC under progress.
13	Vijayapura	CC	327427.00		31.00	25.00
14	Haveri	CMC	67102.00		4.71	1.00
15	Ranebennur	CMC	106406.00		15.00	7.50
16	Hubballi-Dharwad	CC	943788.00		20.00	12.00
17					40.00	30.00
18	Kalaburagi	CC	543147.00		40.00	40.00
19	Raichur	CMC	234073.00		28.00	12.00
20	Bidar	CMC	216020.00		17.26	2.00
					329.47	195

Annexure 2

Annexure 2: Physical and financial progress for the Under Construction STPs in 17 polluted river stretches																				
Sl. No.	**District name**	**ULB name**	**Implementing agency**	**Prilimanary estimated cost of project (Cr Rs)**	**Amount approved (Cr Rs)**	**Amount released (Cr Rs)**	**STP location**	**Co-ordinates**		**Proposed capacity (MLD)**	**Project beginning (date)**	**Technology used**	**Status of the project**	**Physical progress for under construction projects**	**If Civil work in progress, enter percentage progress (%)**	**Financial progress**			**Proposed date of completion**	**Remarks**
								Lat	**Long**							**Target (Cr Rs)**	**Achieved (Cr Rs)**	**Percentage amount spent out of amount approved (%)**		
BWSSB																				
1	Bangalore Urban		BWSSB	705.34	612.21		V.Valley	12.561	77.6192	150	31/07/2017	Activated Sludge Process (ASP)	under construction	Civil work in progress	80%	470	301.26	63.97	31/03/2021	
KUWS&DB																				
I	**Projects under implementation**																			
1	Mysuru	T. Narasipura	KUWSDB	47.98	47.98	47.98	T.N Pura-Talkad road	12°12'23.7"N	76°54'54.6"E	5.5	03/07/2011	SBR	Trial run	STP commissioned	-	39.91	30.16	0.79	31/08/2021	Scheme commisioned on 25-10-2019. Balance work can be completed with in six months after getting the land and approval from NH and PWD departments.
2	Dakshina Kannada	Bantwala	KUWS & D B	56.54	56.54crores	--	Kamaje	120.53'20.15"N,	750.01'59.10"E	STP-1-4.14	Tender will be invited after the land is handed over to the	SBR	Tender will be invited after the land is handed over to the	--	--	--	--	--	24 Months after entrustment of the tender.	DPR amounting to Rs.56.54 crores approved by the Government on 30.11.2017. Tender could not be invited for
							Kaikunje	120.52'26.34" N,	750.02'8.3" E	STP-2-0.22		SBR		--	--	--	--	--		
3	Mandya	Maddur	KUWSDB	57.6	50.15 ERSF	10.53	Near Hole Anjaneya Temple	12°35'18.20" N	77° 03'36.65" E	Upgradation of Existing 3.5 MLD WSP type STP to 6MLD capacity Aerated lagoon	15.04.2020	Aerated lagoon		---	---	---	---	---	14.04.2022	Survey work completed. Sewer network design subimtted to CE Office, Mysuru for approval.
4	Uttara Kannada	Dandeli	M/s Suprada Constructions Pvt Ltd,Dharwad	146.51 (Contract Amount: 69.16 Cr)	146.51	40.68	Nirmal nagar Janata	15°15'49.0"N	74°37'23.4"E	0.5 MLD	06.07.2019	Phytorid STP	Design yet to submitted	Civil work in progress	Over all Physical work progress is 35%	40.68	23.02	56.59	05.07.2022	Work under progress
							Kerwadi (Halmaddi village)	15°15'00.9"N	74°38'02.9"E	8.0 MLD		SBR STP	Excavation for SBR basin completd							
5	Belagavi	Ramdurga	KUWS & D Board	7.49 18.18	7.49 18.18	18.18 Crores	1) Near Halagatti village 2) In padukote area of Ramdurga town	1) 15°57'53.86" N 2) 15°56'39.24" N	1) 75°19'51.45" E 2) 75°17'29.33" E	3.30 MLD 1.00 MLD	01.09.2010	1) Waste Stabilisation pond System. 2) Moving Bed Bio Reactor Type.	4	b	48%	860	840.72	46.24	31.03.2021	Work under progress

6	Shivamogga	Shivamogga	KUWSDB	173 CUGD - 115 AMRUT - 65	173		1) Near Tyavarechatnahalli 2) Purle	1) 13°56'38"N 2) 13°57'2.2"N	1) 75°35'33"E 2) 75°35'46.9"E	1) 35.58 MLD 2) 5.13 MLD	1) 20-03-2009 2) 25-07-2017	1) Aerated Lagoon type 2) Sequential Batch reactor	1) Completed & commmissioned 2) Under construction	Civil work completed & Erection of Electromechanical items & Electrical work is in progress	85%	148.48 [92.00+49.48+7]	138.03 [91.01+41.30+5.72]	1) 80% 2) 73 %	31/12/2020	Due to COVID-19, from 23-03-2020 progress of work is slow down, procurement of Electromechanical equipments is delayed
7	Shivamogga	Bhadravathi	KUWSDB	45 AMRUT	45		1) Near APMC yard 2) Near Jatpatnagar 3) At Ujjinipura	1) 13°51'38.5"N 2) 13°51'34.5"N 3) 13°48'52.2"N	1) 75°42'56.1"E 2) 75°32'15.3"E 3) 75°41'37.3"E	1) 7.2 MLD 2) 5.83 MLD 3) 1 MLD	07/03/2017	1) Waste stabilization pond system 2) Waste Stabilization Pond system 3) Sequentail Batch Reactor	1) work completed 2) work completed 3) Under construction	Civil work & erection of electromechanical components completed and finsihing work is under progress	90%	45 [40+5]	42.01 [37.84+4.17]	93.36	31/01/2021	Due to COVID-19, from 23-03-2020 progress of work is slow down, procurement of Electromechanical equipments is delayed

Annexure 3a

Physical and financial progress for the 17 polluted river stretches of proposed STP																				
Sl. No.	**District name**	**ULB name**	**Implementing agency**	**Prilimina ry estimated cost of project (Cr Rs)**	**Amount approved (Cr Rs)**	**Amount released (Cr Rs)**	**STP location**	**Co-ordinates**		**Proposed capacity (MLD)**	**Project beginning (date)**	**Technolo gy used**	**Status of the project**	**Physical progress for under constructi on projects**	**If Civil work in progress, enter percentag e progress (%)**	**Financial progress**			**Proposed date of completio n**	**Remarks**
								Lat	**Long**							**Target (Cr Rs)**	**Achieved (Cr Rs)**	**Percentag e amount spent out of amount approved (%)**		
II	Projects for which DPR Submitted to Govt for approval																			
1	Mandya	Srirangap atna	KUWSDB	40.8	Estimate Not yet approved	--	Ganjam	12˚ 24'24.20" N	76˚41'36.7 6" E	Upgradati on of existing 3.6 MLD STP to 5MLD capacity SBR type and constructi on of 1.00cum capacity Feacal sludge treatment palnt (FSTP) for isolated area.	Works will be taken up after approval of DPR	SBR	---	---	---	---	---	---	Works will be taken up after approval of DPR	The DPR for "Providing 2nd Stage UGD scheme to Srirangapatna town" which includes upgradation of existing 3.6 MLD STP to 5MLD capacity SBR type and construction of 1.00cum capacity Feacal sludge treatment plant (FSTP) for isolated area for Rs 40.80 Crores is submitted to Government for Administrative approval vide MD, KUWSDB, Bangalore letter no:294/2020-21, dtd:26.05.2020.

2	Mysore	Nanjanagud	KUWS&DB	36.86	Yet to be approved	NA	Goluru village	12°05'59"N	76°42'55"E	Upgradation of Existing 7 MLD STP(WSP) to 7 MLD SBT type STP	NA	NA	DPR submitted	NA	NA	NA	NA	NA	NA	The DPR for upgradation of UGD scheme to Nanjanagudu city as per NGT standards has been submitted to Govt. on 22/05/2020 & Local body resolution submiited to Govt. on 07-10-2020
3	Mysore	Hunsur	KUWS&DB	80	Yet to be approved	NA	Kalkunike	12°05'59"N	76°17'19.4"E	8	-	SBR	DPR submitted	NA	NA	NA	NA	NA	NA	DPR for Rs. 80.0 Crores is submitted for approval to Govt vide ltr 288/2019-20, dtd:22-05-2020. Also the Managing director, KUWSDB, Bengaluru vide ltr 1033/2020-21 dt: 07-09-2020 is directed to re-examine the UGD proposals, in order to take short term measures to comply the honourable NGT orders. Accordingly, DPR for short term measures is submitted to CE office for Rs.2916.00

4	Dakshina Kannada	Subramanya	KUWS & D B	5.23	--	--	Back side of Subramanyeshwara college	120.40'01" N,	750.36'33" E	STP 2.60 (installed)	Tender will be invited after approval of the DPR.	SBR	DPR submitted to Govt. for approval. Meanwhile,an estimate for short term measure for sewage treatment is under preparation.	--	--	--	--	--	24 Months after entrustment of the tender.	DPR amounting to Rs. 5.23 crore submitted to the Govt. for approval vide MD, KUWS & DB, B'lore Ltr. No. 414 Dtd:-11-06-2020.Meanwhile, an estimate for short term measure for sewage treatment is under preparation.
5	Dakshina Kannada	Belthangadi (FSSM)	KUWS & D B	10.3	--	--	Near Crematorium at Renkenda guttu	120.97'93" N,	750.26'97" E	STP - 0.006	Tender will be invited after approval of the DPR.	FSTP	DPR submitted to Govt. for approval. Meanwhile,an estimate for short term measure for sewage treatment is under preparation.	--	--	--	--	--	24 Months after entrustment of the tender.	DPR amounting to Rs. 10.30 crore is submitted to the Govt. for approval vide MD, KUWS & DB, B'lore Ltr. No. 2681 Dtd:-15-02-2020 & re-submitted vide letter No. 414 dated 11-06-2020. Meanwhile,an estimate for short term measure for sewage treatment is under preparation.
6	Hassan	Hassan	KUWSDB	165	Approved		Near Bittgondanahalli	12°58' 42" N	76°05'29" E	20 MLD	Works will be taken up after technical sanction	SBR	Administratively approved on 06.10.2020. Technical sanction to the DPR is	-	-	-	-	-	-	Administratively approved on 06.10.2020. Technical sanction to the DPR is awaited
							Near KSRTC Bus Stand (Channapatna tank bed)	13°00' 00" N	76°06'25" E	10 MLD		SBR		-	-	-	-	-	-	

							Near Hunsinakere tank bed	13°00' 40" N	76°05'15" E	5MLD		SBR	awaited	-	-	-	-	-	-	
							Near Jayanagara	13°01' 52" N	76°06'29" E	2 MLD		MBBR		-	-	-	-	-	-	
							Near Gavenahalli	13°00' 15" N	76°07'54" E	2 MLD		MBBR		-	-	-	-	-	-	
7	Hassan	Belur	KUWSDB	43	Yet to be approved		Holle bidi	13º09'58" N	75º52'24" E	5 MLD	Works will be taken up after approval of DPR	SBR	DPR submitted to Vide MD, KUWS & DB, B'lore	-	-	-	-	-	-	DPR submitted to Vide MD, KUWS & DB, B'lore Ltr. No.546 Dtd:-30.6.2020.
							Neheru Nagar	13°10'12" N	75º52'19" E	1 MLD		MBBR		-	-	-	-	-	-	
							Rayapura	13º09'44" N	75º52'42" E	1 MLD		MBBR		-	-	-	-	-	-	
8	Belagavi	Ainapur	KUWS & D Board	69.88	--	--	Kudachi road west of Ainapur town near nala	16°39'56.02"N	74°52'45.34"E	4.37 MLD	--	Sequential Batch Reactor Type	1	a	--	--	--	--	--	
9	Belagavi	Khanapur	KUWS & D Board	66.57	--	--	Sy. No. 144/4, (Shri Hanji)	15°38'08" N	74°30'58" E	3.70 MLD	--	Sequential Batch Reactor Type	1	a	--	--	--	--	--	
10	Belagavi	Soundattti	KUWS & D Board	104.3	--	--	1) On Singarkoppa Road. 2) Near Shantinagar	1) 15°46'52.45" N 2) 15°45'35.61" N	1) 75°05'33.95"E 2) 75°07'53.96"E	8.50 MLD 0.50 MLD	--	1) Sequential Batch Reactor Type 2) Moving Bed Bio Reactor Type	1	a	--	--	--	--	--	
11	Belagavi	MK Hubli	KUWS & D Board	54.66	--	--	Near Lake in MK Hubballi town	15°56'36.62" N	75°18'28.83" E	4.50 MLD	--	Sequential Batch Reactor Type	1	a	--	--	--	--	--	
12	Belagavi	Munoli	KUWS & D Board	68.76	--	--	Near Grave yard in Munnavali town	15°43'09.88" N	74°41'28.62" E	5.30 MLD	--	Sequential Batch Reactor Type	1	a	--	--	--	--	--	
13	Belagavi	Kudachi	KUWS & D Board	73.41	--	--	Adjacent to Gundwad road	16°38'12.80"N	74°52'53.27"E	3.66 MLD	--	Sequential Batch Reactor Type	1	a	--	--	--	--	--	

III	**Projects for which DPR under preparation**																			
1	Uttara Kannada	Karwar		293						7.00 MLD		SBR STP		—						Submitted to Chief Engineer, office Dharwad vide T.O letter No. 761 Dtd: 26-09-2020
										2.5 MLD		Package plant								
										2.5 MLD		Package plant								
2	Kalaburagi	Jewargi	KUWS & D Board		-	-	Sy No. 21 of Jewargi B Village	17°01'29.7"N	76°46'37.2"E	6.6 MLD	-	SBR STP	DPR preparation		-	-	-	-	-	DPR Under Preparation
3	Shivamogga	Shivamogga	KUWSDB	125	-	-	-	-	-	-	-	-								Survey estimate amounting to Rs.39.40 lakhs is approved by CE,KUWS&DB, Bengaluru vide no 1246, Dt:7-10-2020. Fixing of the consultant is under process. After completion of the survey work, DPR will be prepared and submitted to Government for approval.
4	Shivamogga	Bhadravathi	KUWS&DB	75						-	-	-	DPR preparation							Survey estimate amounting to Rs.31.60lakhs is approved for vide CE, KUWS&DB, Bengaluru ltr No.1247,dt:7.10.2020. Fixing of the consultant for survey work is under process. After completion of survey work, DPR will be submitted.

5	Ramanagara	Ramanagara	KUWS&DB	20.5									DPR preparation							As a short term measure, the DPR for rejuvenation of existing UGD facilities to Ramanagara city amounting to Rs.20.50Crores is placed before TA&TSC for technical clearance.
6	Ramanagara	Kanakapura	KUWSDB	26.91	To be Approved		Boodigere, Malagala	12°33'09.88"N, 12°32'44.52"N	77°25'47.34"E, 77°25'39.97"E	0.3 0.4		MBBR	DPR preparation							As a short term measure, the DPR for "Providing sewer network and construction of decentralised STP's and rejuvenation of existing UGD scheme in Kanakapura city amounting to Rs.26.91 Crores is placed before TA&TSC for technical clearance
7	Davanagere	Honnali	KUWS & D Board	2	Yet to be approved		Malladevarakatte	14°12'43"N	75°37'37"E	3.48 MLD	Works will be taken up after approval of DPR	CBR STP	DPR preparation							As a short term measure, the DPR for Providing UGD scheme to Honnali town amounting to Rs. 2.00 Crores is placed before TA&TSC for technical clearance.

Annexure 3b

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches

Sl. No.	District name	ULB name	Sewer length in Km		Manholes in Nos.		House Service Connection in Nos.		Wet wells (Pumphouse)						STP proposed	Remarks
			Target	Achieved	Target	Achieved	Target	Achieved	Nos.	Location	Co-ordinates		Status of	If project is	If Civil	
KUWS&DB (insert more rows if required)																
I	**Projects under implementation**															
1	Mysuru	T. Narasipura	74.91	66.99	2930	2273	2945	4869	3	Near KSRTC Bus stand (Constructed)	12°12'59"N	76°54'25"E	Scheme commissioned on 25/10/2019			5.5 MLD SBR Type STP constructed	STP commisioned on 25-10-2019. TMC yet to hand over land for construction of 1wet well at one location and Septic tank at 2 locations
										Near STP Besides T.N. Pura- Talkad road (Constructed)	12°12'24"N	76°54'54"E					Wet well constucted
										Algodu Survey No 322/2B	12°17 '55"N	76°53'34"E					Land is not yet handed over to Scheme
2	Dakshina Kannada	Bantwala	36523	32	1265	1327	--	--	Wet well -1	Badakatte near cremetorium	12.9012° N,	75.0509° E	Land for wetwells & STP are to be handed over to the Board by ULB. Meanwhile, an estimate for short term measure for sewage treatment is under preparation.	Laying of sewerlines and construction of Manholes completed under 1st stage UGD project. Constrution of wewells & STPs will be taken up after the land is handed over by ULB to the Board.	--	Yes	Laying of sewer line and construction of manhole completed. Construction of wetwell, STP, providing rising main & pumping machineries not taken up since the lands are yet to be handed over from ULB to the Board As per instructions of MD, Bengaluru, have contacted the Board advocate to implead the Bantwal land case. Already action taken for impleading vide letter dated 25-01-2019 and Court is also permitted the impleading application. The case is under process. Meanwhile,an estimate for short term measure for sewage treatment is under preparation.
									Wet well -2	Near Bharath Gas at Kelagina pete	13.1304° N,	74.7720° E					
									Wet well -5	Thalipadpu	12.8203° N,	75.1093° E					
									Wet well -4 (A)	Chendadi	12.8830° N,	75.0267° E					
									STP-1	Kamaje	120.53'20.15 "N,	750.01'59.10"E					
									STP-2	Kaikunje	120.52'26.34 " N,	750.02'8.3" E					
									Wet well -3	Near Goodinabali primary school	12.8767° N,	75.0415° E					
									Wet well -7	After Panemangalore old bridge	12.8767° N,	75.0415° E					

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches

Sl. No.	District name	ULB name	Sewer length in Km		Manholes in Nos.		House Service Connection in Nos.		Wet wells (Pumphouse)							STP proposed	Remarks
			Target	Achieved	Target	Achieved	Target	Achieved	Nos.	Location	Co-ordinates		Status of	If project is	If Civil		
									Wet well -6	Near Aladka bridge	12.8727° N,	75.0451° E					
3	Mandya	Maddur	44.45	-	1528	-	4000	-	1	Near STP	12˚35'18.20" N	77° 03'36.65" E	-	Works yet to be started	-	Upgradation from existing 3.50 MLD WSP type to 6 MLD capacity Aerated Lagoons type STP	Survey works completed, Sewer network design subimtted to CE Office, Mysuru for approval.
4	Uttara Kannada	Dandeli	88.61	23.12	3190	899	12000	1885	7Nos	WW6 - Vinayak Nagar	15°14'40.4"N	74°37'46.4" E	Under construction	Civil work in progress	Overall physical work progress 35%	8MLD-1No 0.5MLD-1No YES	work is in progress.
										WW1 - Ambewadi	15°16'06.7"N	74°36'53.8" E					
										WW3 - gandhi nagar	15°15'31.8"N	74°36'28.2" E					
										WW5 - old dandeli	15°14'09.6"N	74°37'04.0" E					
										WW7 - bailpar	15°14'01.4"N	74°37'08.5" E					
										WW4 - barchi road	15°15'31.6"N	74°37'17.2" E					
										WW8 - Halmaddi	15°15'00.9"N	74°38'02.9" E					
5	Belagavi	Ramdurga	25.74	21.22	850	779	0	0	1	Near Panchagattimath School	15O56’37”N	75O18’24” E	Work under progress	10%	20%	Yes	Work under progress
6	Shivamogga	Shivamogga	317.25	297.01	9850	9015	8060	6789	9 No's	WW -1 near STP (Tyavarechatnahalli)	13°56' 35"N	75°35' 36"E	Work under progress	Out of 9 Nos of Wetwell, 1 No commissioned,7 Nos Civil work completed and 1 No work is under progress and Balance work is in progress.	75 %	Yes	1) Under CUGD Scheme - 35.58 MLD aerated Lagoon type STP - Commissioned on April 2017 2) Under AMRUT - 5.13 MLD SBR tpye STP at Purle - 80% work completed targeted for commissioning.
										WW 2- Autocomplex	13°56' 33"N	75°33' 32"E					
										WW 3- Gurupura	13°56' 11"N	75°35' 49"E					
										WW 4- Goshala	13°55' 38"N	75°35' 17"E					
										WW 5- Seegehatti	13°55' 10"N	75°34' 18"E					

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches

Sl. No.	District name	ULB name	Sewer length in Km		Manholes in Nos.		House Service Connection in Nos.		Wet wells (Pumphouse)							STP proposed	Remarks
			Target	Achieved	Target	Achieved	Target	Achieved	Nos.	Location	Co-ordinates		Status of	If project is	If Civil		
										WW 6- Gopishettykoppa Zone 1	13° 56' 20.4" N	75° 35' 2.4" E					
										WW 7- Gopishettykoppa Zone 2	13°55' 10"N	75°33' 18"E					
										WW 8- at Purle	13°55' 53.76" N	75°36' 12.6" E					
										WW 9- at Kote road	13°55' 50"N	75°35' 13"E					
7	Shivamogga	Bhadravathi	30	30	1144	1114	4836	4636	3	WW-1 - Jannapura	13°50' 27.6" N	75°40' 58.8" E	Under construction	All components completed except 1 MLD STP.	**93%**	Yes	7.2 MLD WSP type STP near APMC Yard, 5.83 MLD WSP type STP near Jatpatnagar - Work completed. 1.00 MLD SBR type STP at Ujjinipura - 85 % of work completed
										WW-2 - Ujjinipura	13°48' 50.4" N	75°41'52.8" E					
										WW-3 - Thammanna colony	13°50' 24"N	75°42'36"E					
II	**Projects for which DPR Submitted to Govt for approval**																
1	Mandya	Srirangapatna	21	--	798 Nos	---	3000 Nos	---	2 Nos	1)Near STP 2)Gumbaz	1) 12˚ 25'03.84" N 2)12˚ 24'44.18" N	1)76˚ 42'41.57" E 2)76˚ 42'36.76" E	DPR submitted to the Govt. for approval.	--	--	Yes	The DPR for "Providing 2nd Stage UGD scheme to Srirangapatna town" amounting for Rs 40.80 Crores is submitted to Government for Administrative approval vide MD, KUWSDB, Bangalore letter no: 294/2020-21, dtd: 26.05.2020.
2	Mysore	Hunsur	108.47	-	3906	-	-	-	1	Zone 4 near Dhavani beedi	12°18'12.32" N	76° 17'15.19"E	NA	DPR is yet to be approved	NA	8 MLD SBR type STP is proposed	DPR for Rs. 80.0 Crores is submitted for approval to Govt vide ltr 288/2019-20, dtd:22-05-2020.

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches

Sl. No.	District name	ULB name	Sewer length in Km		Manholes in Nos.		House Service Connection in Nos.		Wet wells (Pumphouse)						STP proposed	Remarks
			Target	Achieved	Target	Achieved	Target	Achieved	Nos.	Location	Co-ordinates		Status of	If project is	If Civil	
3	Mysore	Nanjanagud	-	-	-	-	-	-	-	-	-	-	DPR submitted	-	-	8 MLD SBR type STP is proposed	The DPR of Rs. 36.86 crore for upgradation of UGD scheme to Nanjanagudu city as per NGT standards has been submitted to Govt. on 22/05/2020 and the DPR is yet to be approved
4	Dakshina Kannada	Subramanya	13347	7979	328	297	--	--	Wet well -1 No.	Back side of Subramanyeshwara college	120.40'01" N,	750.36'33" E	Completed	--	--	--	Constructed under UGD scheme to Subramanya temple & town.
									STP-1 No.	Back side of Subramanyeshwara college	120.40'01" N,	750.36'33" E	DPR submitted to the Govt. for approval. Meanwhile, an estimate for short term measure for sewage treatment is under preparation.	--		Yes	DPR amounting to Rs. 5.23 crore submitted to the Govt. for approval vide MD, KUWS & DB, B'lore Ltr. No. 414 Dtd:-11-06-2020 for upgradation of the existing 2.60MLD STP to SBR type. Meanwhile,an estimate for short term measure for sewage treatment is under preparation.
5	Dakshina Kannada	Belthangadi (FSSM)	--	--	--	--	--	--	FSTP	Near Crematorium at Renkendagutu	120.97'93" N,	750.26'97" E	DPR submitted to the Govt. for approval. Meanwhile, an estimate for short term measure for sewage treatment is under preparation.	--	--	Yes	DPR amounting to Rs. 10.30 crore is submitted to the Govt. for approval vide MD, KUWS & DB, B'lore Ltr. No. 2681 Dtd:-15-02-2020 & re-submitted vide letter No. 414 dated 11-06-2020. Meanwhile,an estimate for short term measure for sewage treatment is under preparation.

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches

Sl. No.	District name	ULB name	Sewer length in Km		Manholes in Nos.		House Service Connection in Nos.		Wet wells (Pumphouse)							STP proposed	Remarks
			Target	Achieved	Target	Achieved	Target	Achieved	Nos.	Location	Co-ordinates		Status of	If project is	If Civil		
6	Hassan	Hassan	--	--	--	--	--	--	--	--	--	--	Administratively approved on 06.10.2020. Technical sanction to the DPR is awaited	--	--	--	Administratively approved on 06.10.2020. Technical sanction to the DPR is awaited
7	Hassan	Belur	--	--	--	--	--	--	Wet Well No.1	Near Girls Hostal, Vidya Nagar, Belur	130.9'56" N,	750.51'29" E,	DPR submitted to Vide MD, KUWS & DB, B'lore Ltr. No.546 Dtd: -30.6.2020. Estimate to be approved. Further estimate is prepared for	--	--	--	DPR submitted to Vide MD, KUWS & DB, B'lore Ltr. No.546 Dtd: -30.6.2020. Estimate to be approved.Further estimate is prepared for short term measures.
									Wet Well No.2	Near Attalagere Belur	130.10'37" N,	750.52'00" E,					
									Wet Well No.3	Near hosalliyamma temple, Belur	130.9'37" N,	750.50'23" E,					
									Wet Well No.4	Near Renuka Yellama temple Belur	130.9'32" N,	750.51'20" E,					
8	Belagavi	Ainapur	--	--	--	--	--	--	2	1) Near Indira Nagar 2) South side of Ambedkar Sabha Bhavan outer road to Ainapur town 3) Kudachi road west of Ainapur town near Nala	16°40'41.85" N 16° 39'47.64"N 16° 39'56.02"N	74° 53'35.66"E 74° 53'36.88"E 74° 52'45.34"E	--	--	--	Yes	DPR for Rs. 6988.00 Lakhs submitted to the Govt. for according approval vide Ltr. No. 1037 Dtd : 01.08.2019

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches

Sl. No.	District name	ULB name	Sewer length in Km		Manholes in Nos.		House Service Connection in Nos.		Wet wells (Pumphouse)							STP proposed	Remarks
			Target	Achieved	Target	Achieved	Target	Achieved	Nos.	Location	Co-ordinates		Status of	If project is	If Civil		
9	Belagavi	Khanapur	--	--	--	--	--	--	3	1) Right hand corner of proposed Bridge cum barrage. 2) Open area Vidhya Nagar 3) Police Colony	15°38'15"N 15°38'25"N 15°37'45"N	74°30'51"E 74°29'56"E 74°30'12"E	--	--	--	Yes	DPR for Rs. 6657.00 Lakhs submitted to the Govt. for according approval vide Ltr. No. 2026 Dtd : 08.11.2019
10	Belagavi	Soundattti	--	--	--	--	--	--	1	Near Koppad Hanuman Temple	15°46'31.47" N	75° 06'24.17"E	--	-	-	Yes	The Comprehensive DPR amounting to Rs 104.30 Crores is submitted to GOK for Administrative Approval vide Board Ltr. No. 01 Dated: 02.04.2019
11	Belagavi	MK Hubli	--	--	--	--	--	--	3	1) In APMC Market. 2) On Amarapur. 3) Near Basaveshwar School on NH-4.	1) 15° 42'45.93" N 2) 15° 42'48.28" N 3) 15° 42'56.75" N	1) 74° 41'04.34" E 2) 74° 42'02.48" E 3) 74° 41'29.50" E		-	-	Yes	The DPR amounting to Rs. 54.66 Crores is submitted to GOK for Administrative Approval vide Board Ltr. No. 1916 Dated: 28.10.2019
12	Belagavi	Munoli	--	--	--	--	--	--	4	1) In Gandhi Nagar. 2) In Gandhi Nagar. 3) Near Old Bridge over Malaprabha River. 4) On Ramdurga Road in Munavalli town.	1) 15° 50'54.58" N 2) 15° 51'14.07" N 3) 15° 51'05.82" N 4) 15° 51'36.76" N	1) 75° 06'31.69" E 2) 75° 06'12.98" E 3) 75° 07'19.64" E 4) 75° 07'23.29" E		-	-	Yes	The DPR amounting to Rs. 68.76 Crores is submitted to GOK for Administrative Approval vide Board Ltr. No. 1917 Dated: 28.10.2019.

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches

Sl. No.	District name	ULB name	Sewer length in Km		Manholes in Nos.		House Service Connection in Nos.		Wet wells (Pumphouse)							STP proposed	Remarks
			Target	Achieved	Target	Achieved	Target	Achieved	Nos.	Location	Co-ordinates		Status of	If project is	If Civil		
13	Belagavi	Kudachi	--	--	--	--	--	--	2	1) South Bank of Krishna River Hazrat Mashaah Alla Dargah Road. 2) Near Vittal Mandir road and south of slum colony and west of Railway line (Near Quarry)	16°38'2.94"N 16° 37'50.36"N	74° 50'55.57"E 74° 51'19.16"E	--	--	--	Yes	The DPR for Rs. 7341.00 Lakhs submitted to the Govt. for according approval vide Ltr. No. 1842 Dtd : 19.10.2019
III	**Projects for which DPR under preparation**																
1	Uttara Kannada	Karwar	0		0		19500		18		14°48'5.04"N	74° 07'26.65"E		0	0	7.0MLD-1No 2.50MLD-2No YES	DPR for providing UGD scheme to Karwar Town for Rs. 293.00 Crores is submitted to Chief Engineer office Dharwad vide T.O letter No. 761 Dt: 26-09-2020
2	Kalaburagi	Jewargi	108.59	-	4042	-	6500	-	2	1) Sy No. 21 of Jewargi B Village 2) Sy No. 65 of Jewargi B Village	1) 17° 01'29.7"N 2) 17°00'37" N	1) 76° 46'37.2"E 2) 76°47'08" E	DPR preparation			YES	DPR for providing UGD scheme to Jewargi Town is under preparation.
3	Ramanagara	Ramangara	10		350								DPR preparation			YES	As a short term measure, the DPR for rejuvenation of existing UGD facilities to Ramanagara city amounting to Rs.20.50 Crores is placed before TA&TSC for technical clearance.

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches

Sl. No.	District name	ULB name	Sewer length in Km		Manholes in Nos.		House Service Connection in Nos.		Wet wells (Pumphouse)							STP proposed	Remarks
			Target	Achieved	Target	Achieved	Target	Achieved	Nos.	Location	Co-ordinates		Status of	If project is	If Civil		
4	Ramanagara	Kanakapura	25.25		935				2	Boodigere, Malagala	12°33'09.88" N, 12° 32'44.52"N	77° 25'47.34"E, 77° 25'39.97"E	DPR preparation			Yes	As a short term measure, the DPR for "Providing sewer network and construction of decentralised STP's and rejuvenation of existing UGD scheme in Kanakapura city amounting to Rs.26.91 Crores is placed before TA&TSC for technical clearance
	Davanagere	Honnali	5.265		192		2152				14°12'43"N	75°37'37"E	DPR preparation			Yes	As a short term measure, the DPR for Providing UGD scheme to Honnali town amounting to Rs. 2.0 Crores is placed before TA&TSC for technical clearance.
	Shivamogga	Shivamogga	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Survey estimate amounting to Rs.39.40 lakhs is approved by CE,KUWS&DB, Bengaluru vide no 1246, Dt: 7-10-2020. Fixing of the consultant is under process. After completion of the survey work, DPR will be prepared and submitted to Government for approval.
	Shivamogga	Bhadravathi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Survey estimate amounting to Rs.31.60lakhs is approved for vide CE, KUWS&DB, Bengaluru ltr No.1247,dt: 7.10.2020. Fixing of the consultant for survey work is under process. After completion of survey work, DPR will be prepared and submitted to Government for approval.

Annexure 3c

Physical and financial progress for the 17 polluted river stretches of proposed STP																					
Sl. No.	District name	ULB name	Implementing agency	Priliminary estimated cost of project (Cr Rs)	Amount approved (Cr Rs)	Amount released (Cr Rs)	STP location	Co-ordinates		Proposed capacity (MLD)	Project beginning (date)	Technology used	Status of the project	Physical progress for under construction projects	If Civil work in progress, enter percentage progress (%)	Financial progress			Proposed date of completion	Remarks	Progress sumary for October 2020
								Lat	Long							Target (Cr Rs)	Achieved (Cr Rs)	Percentage amount spent out of amount approved (%)			
3	Mandya	Maddur	KUWSDB	57.6	50.15 ERSF	10.53	Near Hole Anjaneya Temple	12°35'18.20" N	77° 03'36.65" E	Upgradation of Existing 3.5 MLD WSP type STP to 6MLD capacity Aerated lagoon	15.04.2020	Aerated lagoon		---	---	---	---	---	14.04.2022	Survey work completed. Agency has to submit the sewer network designs.	**sewer network designs has submitted to chief Engg office, Mysuru for approvel.**
4	Uttara Kannada	Dandeli	M/s Suprada Constructions Pvt Ltd,Dharwad	146.51 (Contract Amount:76.62 Cr)	146.51	40.68	Nirmal nagar Janata colony-	15°15'49.0"N	74°37'23.4"E	0.5 MLD	06.07.2019	Phytorid STP	Under construction	Civil work in progress	Over all Physical work progress is 35%	40.68	23.02	56.59	05.07.2022	Work under progress	**Design for Nirmal Ngar Janata colony STP is yet to be submitted. In Kerwadi STP excavation for SBR basin completed.**
							Kerwadi (Halmaddi village)	15°15'00.9"N	74°38'02.9"E	8.0 MLD		SBR STP									
2	Mysore	Hunsur	KUWS& DB	36.86	Yet to be approved	NA	Goluru village	12°05'59" N	76°42'55" E	Upgradation of Existing 7 MLD STP(WSP) to 7 MLD SBT type STP	NA	NA	DPR submitted	NA	NA	NA	NA	NA	NA	DPR for Rs. 80.0 Crores is submitted for approval to Govt vide ltr 288/2019-20, dtd:22-05-2020.	**MD KUWS&DB, Bangaluru vide letter 1033/2020-21 dated07/09/2020 is directed to reexamine the UGD proposals in order to take short term measures to comply with NGT orders. Accordingly DPR for 2916 lakh rupes is submitted to CE office**
3	Mysore	Nanjanagud	KUWSDB	80	-	-	Kalkunike	12°19'13.9"N	76°17'19.4"E	8	-	SBR	DPR submitted	-	-	-	-	-	-	The DPR for upgradation of UGD scheme to Nanjanagudu city as per NGT standards has been submitted to Govt. on 22/05/2020	**local body resolution submitted to Govt on 7/10/2020**
4	Dakshina Kannada	Subramanya	KUWS & DB	5.23	--	--	Back side of Subramanyeshwara college	120.40'01" N,	750.36'33" E	STP 2.60 (installed)	Tender will be invited after approval of the DPR.	SBR	DPR submitted to Govt. for approval.	--	--	--	--	--	24 Months after entrustment of the tender.	DPR amounting to Rs. 5.23 crore submitted to the Govt. for approval vide MD, KUWS & DB, B'lore Ltr. No. 414 Dtd:-11-06-2020.	**Meanwhile, an estimate for short term measure for the sewage treatment is under preparation**
5	Dakshina Kannada	Belthangadi (FSSM)	KUWS & DB	10.3	--	--	Near Crematorium at Renkendaguttu	120.97'93" N,	750.26'97" E	STP - 0.006	Tender will be invited after approval of the DPR.	FSTP	DPR submitted to Govt. for approval.	--	--	--	--	--	24 Months after entrustment of the tender.	DPR amounting to Rs. 10.30 crore is submitted to the Govt. for approval vide MD, KUWS & DB, B'lore Ltr. No. 2681 Dtd:-15-02-2020 & re-submitted vide letter No. 414 dated 11-06-2020.	**Meanwhile, an estimate for short term measure for the sewage treatment is under preparation**
6	Hassan	Hassan	KUWSDB	165	Yet to be approved		Near Bittgondanahalli	12°58' 42" N	76°05'29" E	20 MLD	Works will be taken up after approval of DPR	SBR	DPR submitted to Vide MD, KUWS & DB, B'lore Ltr. No.546 Dtd:-30.6.2020. Estimate to be approved	-	-	-	-	-	-	DPR submitted to Vide MD, KUWS & DB, B'lore Ltr. No. 546 Dtd:-30.6.2020.Estimate to be approved	**DPR administratively approved on 6/10/2020, technical sanction to DPR is avaited.**
							Near KSRTC Bus Stand (Channapatna tank bed)	13°00' 00" N	76°06'25" E	10 MLD		SBR		-	-	-	-	-	-		
							Near Hunsinakere tank bed	13°00' 40" N	76°05'15" E	5MLD		SBR		-	-	-	-	-	-		
							Near Jayanagara	13°01' 52" N	76°06'29" E	2 MLD		MBBR		-	-	-	-	-	-		
							Near Gavenahalli	13°00' 15" N	76°07'54" E	2 MLD		MBBR		-	-	-	-	-	-		
1	Uttara Kannada	Karwar		296.5						7.00 MLD		SBR STP	DPR preparation							DPR under preparation	**DPR submitted to Chief Engg office Dharwad vide TO letter no 761 dated 26/09/2020**
										2.5 MLD		Package plant									
										2.5 MLD		Package plant									

3	Shivamogga	Shivamogga	KUWSDB	125	-	-	-	-	-	-	-	-								For preparation of DPR. Detailed survey work has to be conducted. ULB requested to deposit for survey estimate cost of Rs. 44.80 lakhs vide this office letter no 2848 Dt: 17-03-2020 Amount not yet received from ULB. Hence, the estimate cost of Rs. 44.80 lakhs has been submitted to Chief Engineer. KUWS& D Board, Banglore vide this office letter no: 115 Dt 24-04-2020 Approval is awaited.	**Survey estimate amounting to 39.4 lakhs is approved by CE,KUWS&DB vide no 1246, dated 7/10/2020. Fixing of the consultant is under process.After completion of the survey work, DPR will be prepared.**
4	Shivamogga	Bhadravathi	KUWS&DB	75						-	-	-	DPR preparation							For preparation of DPR. Detailed survey work have to be conducted and requested ULB to deposit for survey estimate cost of Rs. 35.95 lakhs vide this office letter no:2847 dt: 17-03-2020. Amount not yet received from ULB. Hence, the estimate cost of Rs. 35.95 lakhs has been submitted to Chief Engineer. KUWS& D Board, Banglore vide this office letter no: 593 dt: dt: 02-07-2020. Approval is awaited.	**Survey estimate amounting to 31.6 lakhs is approved by CE,KUWS&DB vide no 1247, dated 7/10/2020. Fixing of the consultant is under process.After completion of the survey work, DPR will be prepared.**
5	Ramanagara	Ramanagara	KUWS&DB	20.5									DPR preparation								**As a short term measure the DPR for rejuvenation of existing UGD facilities to Ramnagara city amounting to 20.5 cr is placed before TA & TSC for technical clearance.**
6	Ramanagara	Kanakapura	KUWSDB	36.17	To be Approved		Boodigere, Malagala	12°33'09.88"N, 12°32'44.52"N	77°25'47.34"E, 77°25'39.97"E	0.3 0.4		MBBR	DPR preparation							As a short term measure, the DPR for "Providing 2nd Stage UGD scheme to Kanakapura town" amounting to Rs.36.17 Crores is under srutiny.	**As short term measure, the DPR for providing sewer network and construction of decentralised STPs and rejuvenation of existing UGDs scheme in Kanakapura city amounting to 26.91 cr is placed before TA & TSC for technical clearance.**

Annexure 3c

Under Ground Drianage (UDG) status and progress details for the 17 polluted river stretches																		
Sl. No.	**District name**	**ULB name**	**Sewer length in**		**Manholes in Nos.**		**House Service**		**Wet wells (Pumphouse)**							**STP proposed**	**Remarks**	**Progress sumary for October 2020**
			Target	**Achieved**	**Target**	**Achieved**	**Target**	**Achieved**	**Nos.**	**Location**	**Co-ordinates**		**Status of the project**	**If project is Under Construction, enter physical progress**	**If Civil work in progress, enter percentage progress (%)**			
											Lat	long						
1	Mysuru	T. Narasipura	74.91	66.99	2930	2273	2945	4869	3	Near KSRTC Bus stand (Constructed)	12°12'59"N	76°54'25"E				5.5 MLD SBR Type STP constructed	STP commisioned on 25-10-2019. TMC yet to hand over land for construction of 1wet well at one location and Septic tank at 2 locations	**Scheme commissioned**
2	Dakshina Kannada	Bantwala	36523	32	1265	1327	--	--	Wet well - 1	Badakatte near cremetorium	12.9012° N,	75.0509° E	Land for wetwells & STP are to be handed over to the Board by ULB.	Laying of sewerlines and construction of Manholes completed under 1st stage UGD project.	--	Yes	Laying of sewer line and construction of manhole completed. Construction of wetwell, STP, providing rising main & pumping machineries not taken up since the	**an estimate for short term measure for sewage treatment is under preparation.**
									Wet well - 2	Near Bharath Gas at Kelagina pete	13.1304° N,	74.7720° E						
4	Uttara Kannada	Dandeli	88.61	23.12	3190	899	12000	1885	7Nos	WW6 - Vinayak Nagar	15°14'40.4"N	74°37'46.4" E	Under construction	Civil work in progress	Overall physical work progress 35%	YES	work is in progress.	**one 8 MLD STP & one 0.5 MLD STP are proposed.**
									STP-1 No.	Back side of Subramanyeshwara college	120.40'01" N,	750.36'33" E	DPR submitted to the Govt. for approval.	--		Yes	DPR amounting to Rs. 5.23 crore submitted to the Govt. for approval vide MD, KUWS & DB, B'lore Ltr. No. 414 Dtd:-11-06-2020 for upgradation of the existing 2.60MLD STP to SBR type.	**Meanwhile, an estimate for short term measure for the sewage treatment is under preparation**
6	Hassan	Hassan	--	--	--	--	--	--	--	--	--	--	DPR submitted to Vide MD, KUWS & DB, B'lore Ltr. No.546 Dtd:-30.6.2020. Estimate to be approved	--	--	--	DPR amounting to Rs.165.00 crores is submitted to the Govt Vide MD, KUWS & DB, B'lore Ltr. No.546 Dtd:-30.6.2020. Estimate to be approved	**administratively approved on 06/10/2020 technical sanction to the DPR is awaited.**

7	Hassan	Belur	--	--	--	--	--	--	Wet Well No.1	Near Girls Hostal, Vidya Nagar, Belur	130.9'56" N,	750.51'29" E,	DPR submitted to Vide MD, KUWS & DB, B'lore Ltr. No.546 Dtd:-30.6.2020. Estimate to be approved	--	--	--	DPR amounting to Rs.43.00 crores is submitted to the Govt Vide MD, KUWS & DB, B'lore Ltr. No.546 Dtd:-30.6.2020. Estimate to be approved	**estimate for short term measure is being prepared.**
									Wet Well No.2	Near Attalagere Belur	130.10'37" N,	750.52'00" E,						
									Wet Well No.3	Near hosalliyamma temple, Belur	130.9'37" N,	750.50'23" E,						
									Wet Well No.4	Near Renuka Yellama temple Belur	130.9'32" N,	750.51'20" E,						
1	Uttara Kannada	Karwar	190.38		6763		17600		18		14°48'5.04"N	74°07'26.65" E		0	0	YES	DPR for providing UGD scheme to Karwar Town is under preparation.	**7MLD & 2.4 MLD STP proposed.**
3	Ramanagara	Ramangara	10		350								DPR preparation					**As short term measure, the DPR for rejuvenation of existing UGD facilities to Ramanagara city amounting to Rs. 20.50 Cr is placed before TA & TSC for technical clearance.**

Annexure 4: Industrial Details for Karnataka

Revised Waste Water Consumption

	RSEO	Sl.No	RO	Domestic		Mode of Disposal						Trade		Mode of Disposal			
				Consumption (KLD)	Generation (KLD)	Irrigation /Gardening	Septic Tank Sop fit	UGD	CSTP/CETP	Others	River/Tanks/Water Bodies	Consumption (KLD)	Generation (KLD)	Irrigation/Gardening	Septic Tank Sop fit	UGD	CSTP/CETP
1	Bangalore City	1	Bengaluru City East	16665.556	13167.6	3578.922	3.2	1234.652	-	8350.818	-	1794.15	1316.635	-	-	-	128.5
		2	Bengaluru City West	15605.556	12484.5	3260.5	5	1232.852	-	7986.148	-	1594.13	1216.536	-	-	-	135.78
		3	Bengaluru City South	12822.2	10519	2000.02	32.48	2135.4	159.6	6191.5	-	18496.3	15275.3	4098.1	30.9	810	563.3
		4	Peenya	3808	3046.57	1321.92	565.12	1159.53	-	-	-	2683	2443.3	2362.87	-	-	80.43
2	Bangalore East	5	Chikkaballapura	1026.915	867.493	24.855	640.514	41.32	-	160.804	-	7159.39	1934.18	192.86	480.3	47.02	21.43
		6	Hoskote	9671.342	8393.91	8160.275	233.63	-	-	-	-	2036.71	758.38	738.38	-	-	20.00
		7	Kolar	4240.165	3437.91	1795.38	506.51	-	-	1136.02	-	5754.07	3686.221	1596.22	46.44	-	2.5
		8	Mahadevpura	59464.34	49817.9	16741.5	428.4	48.5	6750	25849.5	-	3622.61	1985.52	1811.15	-	4.18	30.73
3	Bangalore North	9	Dasarahalli	13133	10941	8656	1733	195	357	-	-	1088.97	961.108	460	-	475	26.108
		10	Doddaballapura	2415.2	1945.55	1525.19	401.63	9.8	8.93	-	-	12938.8	12938.77	8089	-	-	726.67
		11	Nelamangala	3690.185	2990.78	1260.915	1729.868	-	-	-	-	2985.83	1346.49	1285.058	2.42	-	37.852
		12	Yelahanka (Byatarayanapura)	71007	24539	7495	3043	218	507	13276	-	24221.8	18941.82	5377.9	175.2	703.7	1525.5
4	Bangalore South	13	Anekal	6882.155	5510.43	4792.16	648.31	-	54.56	15.4	-	6529.56	4459.39	2262.4	-	-	1647.89
		14	Bommanahalli	24145.691	19008.3	16973.76	1913.88	120.68	-	-	-	2708.85	2051.11	914.31	388	-	748.4
		15	Rajarajeshwarinagar	14275.55	11623.7	10453.1	453.35	717.26	-	-	-	4543.77	3367.806	628.8	-	2433	54.21
		16	Ramanagar	5643.375	4863.32	3589.514	746.45	145.8	46.8	334.76	-	17896.8	8834.662	6938.319	-	25.3	273.76
		17	Sarjapura	8813	7040.74	3553.3	583.046	4.52	17.96	2881.91	-	9264.39	7060.726	1316.63	16.1	0.68	31.67
5	Mysore	18	Chamarajanagar	586.24	456.368	284.35	167.218	4.8	-	-	-	967.96	548.4	520.63	6	15.5	-
		19	Hassan	27051	16914.1	2700.42	-	156.8	-	14056.9	-	2876.66	2301.33	1161.862	789.5	207.1	-
		20	Kodagu	2012.19	1424.98	386.78	1038.2	-	-	-	-	785.56	432.31	431.87	-	-	-
		21	Mandya	438.7	363.96	270	89.46	4.5	-	-	-	555.72	433.5	266	124.8	42.68	-
		22	Mysuru Urban	966.53	775.69	368.54	41.41	220.08	108	37.66	-	3900.53	3345.92	229.2	33.57	197.6	108
		23	Mysuru Rural	3742.852	2747.41	2224.542	522.863	-	-	-	-	17002.1	8159.56	7898.3	-	-	-
6	Ballari	24	Bellari	16190.45	11991.2	7757.2	1440.718	92.9	1567.76	1132.6	-	73461.5	38570.094	306.92	8898	150.2	1297.7
		25	Koppal	986	764	502	262	-	-	-	-	14087	3167	3167	-	-	-
		26	Raichur	64906.35	51894.5	8.7	50957.2	-	182.8	745.8	-	36564.8	28690.12	29.2	20891	-	141.1
7	Mangalore	27	Chikkamagaluru	1518.385	1279.73	384.4	569.113	145.612	180.6	-	-	2362.39	1542.125	623.7	469.5	189.7	220.112
		28	Karwar	19988.62	16875.2	5780.5	194.1	-	-	4577.1	6323.5	112095	88917.8	4118.3	201	-	-
		29	Mangalore	22691.87	18236.1	4613	2628.55	3973.71	196.75	6824.05	-	76669.2	67612.79	7523.18	-	1070	5125.15
		30	Udupi	4143.37	3563.14	2385.188	882.781	295.166	-	-	-	254849	174489.52	1226.037	-	22.9	637.083
		31	Chitradurga	3381.2	2176.16	269	1485.71	20.19	-	398.06	3.2	4138.59	2270.89	269	1552	14.95	-

8	Chitradurga	32	Davanagere	30368.19	21338.1	991.07	17326.59	430.32	223.77	2117.51	248.83	42003.2	36030.74	23420.98	139.8	473.4	230.57
		33	Shivamogga	83523.44	58107.1	3974.038	54025.521	107.51	-	-	-	70017.3	49783.523	44627.42	32.36	398.5	-
		34	Tumkur	3220.36	2474.48	404.14	90.05	17.6	116.03	1846.66	-	6108.51	3841.84	322.94	90.05	7.2	920.76
8	Dharwad	35	Dharwad	13151.863	8883.8	3994.15	1938.04	1114.84	681.25	1155.61	-	17221.4	10993.26	3169.32	4712	1210	602.37
		36	Bagalkote	7420.27	4380.92	869.04	3511.88	-	-	-	-	25090.3	12318.745	12318.75	-	-	-
		37	Belagavi-1	17029.145	8114.42	4073.73	807.59	2802.10	-	430.99	-	21289.6	11030.505	5298.10	3434	1268	
		38	Belagavi-2 (Chikkodi Central)	10065.745	6882.19	2040.83	4497.5	8.16	-	335.7	-	21584.4	17485.88	9323.16	5382	8.16	-
		39	Haveri	384.3	306.88	121.6	185.28	-	-	-	-	5660.4	3636.44	3494.54	-	-	-
		40	Gadag	1486.32	968.42	685	283.42	-	-	-	-	1332.52	844.12	558	-	-	-
9	Kalaburgi	41	Kalburgi	3503.66	2434.46	1350.8	1071.71	11.96	-	-	-	13913.8	2310.82	1900.7	402.1	8	-
		42	Bidar	1800.356	1354.09	386.39	967.71	-	-	-	-	9013.63	4493.2	4493.2	-	-	-
		43	Vijayapura	5815.8	2525.88	2024	358.4	143.48	-	-	-	153940	1282.7	1274.1	-	8.6	-
		44	Yadagiri	307	235.4	4	231.4	-	-	-	-	430	255.8	1	254.8	-	-
			Total	**619989.436**	**437666**	**144035.7**	**159241.8**	**16813.042**	**11158.81**	**99841.5**	**6575.5**	**1113239**	**663366.89**	**176045.4**	**48551**	**9791**	**15337.58**
				619.989436	437.666	144.0357	159.2418	16.813042	11.15881	99.8415	6.5755	1113.24	663.36689	176.0454	48.55	9.791	15.33758
				626	442	146	159	18	12	100	7	1113	663	176	48	10	15

Status of industries (RED) wrt Trade effluent

SL.N	Zonal Offi	Category	Particulars of generation	Total No. of Op	ETP /STP/	Connected	Connected to	No of industries	Defaulters (No adequate facility)			
1	Bengaluru	Red	Trade	270	44	0	226	0	0			
2	Bengaluru	Red	Trade	137	73	0	64	0	0			
3	Bengaluru	Red	Trade	409	212	0	197	0	0			
4	Bengaluru	Red	Trade	206	65	0	141	0	0			
5	Mysuru	Red	Trade	155	155	0	0	0	0			
6	Mangalur	Red	Trade	77	76	0	1	0	0			
7	Ballari	Red	Trade	41	41	0	0	0	0			
8	Chitradurg	Red	Trade	77	61	0	16	0	0			
9	Dharwad	Red	Trade	154	146	5	0	0	3			
10	Kalburagi	Red	Trade	83	77	6	0	0	0			
	Total			**1609**	**950**	**11**	**645**	**0**	**3**			

Status of industries (Orange)wrt Trade effluent

SL.N	Zonal Offi	Category	Particulars of generation	Total No. of Op	ETP /STP/	Connected	Connected to	No of industries	(No adequate facility)			
1	Bengaluru	Orange	Trade	227	140	87	0	0	0			
2	Bengaluru	Orange	Trade	109	81	0	24	0	4			
3	Bengaluru	Orange	Trade	373	285	0	88	0	0			

4	Bengaluru	Orange	Trade	130	98	0	31	0	1			
5	Mysuru	Orange	Trade	178	178	0	0	0	0			
6	Mangalur	Orange	Trade	417	399	0	18	0	0			
7	Ballari	Orange	Trade	159	159	0	0	0	0			
8	Chitradurg	Orange	Trade	584	565	0	12	7	0			
9	Dharwad	Orange	Trade	249	213	13	0	0	23			
10	Kalburagi	Orange	Trade	123	97	0	0	0	26			
	Total	**10**		**2549**	**2215**	**100**	**173**	**7**	**54**			

RED :	1609
ORANGE :	2549
Total Number of Industries having ETPs :	4158

STATUS OF INDUSTRIES CONNECTED/NOT CONNECTED TO ONLINE MONITORING SYSTEMS (OCEMS) TO CPCB SERVER FOR THE YEAR 2019-20

Sl No	17-Category industries	Total No. Of industries	Connected	Not Connected
1	Aluminum	1	1	0
2	Bulk Drugs & Pharmaceutical	64	62	2
3	Caustic Soda	1	1	0
4	Cement	23	23	0
5	Distillery	14	14	0
6	Dyes & Dye Intermediates	2	2	0
7	Fertilizer	3	3	0
8	Oil Refinery	1	1	0
9	Pesticides	1	1	0
10	Petrochemicals	1	1	0
11	Pulp & Paper	5	5	0
12	Sugar (Sugar, Sugar & Co-gen ,Sugar ,Co-gen and distillery)	68	67	1
13	Thermal Power	9	9	0
14	Integrated Iron & Steel	1	1	0
15	Tannery	0	0	0
16	Copper Smelter	0	0	0
17	Zinc Smelter	0	0	0
	Total	**194***	**191**	**3**
	Common Facilities			
1	BMWI	26	25	01
2	CETP	10	08	02
3	CHWI	08	08	00
	Total	**44**	**41**	**03**
	Grand Total	**238**	**232**	**06**

Note: 272 No's of OCEMS Effluent/Emission industries & common facilities are connected to CPCB Server in Karnataka State.

Annexure 5

~~Annexure-2b~~

Information about CETPs and member units located in the State/UT : KARNATAKA as called by the CPCB vide letter dated 06.08.2020

SL.No	Name and address of the CETP	Co-ordinates	Installed and operational capacity	Number of member industries (Scale wise)		Number industries with effluent discharges				Number of industries (Sector-wise)
						< 25 KLD	> 25 KLD & < 50 KLD	> 50 KLD & <100 KLD		
1	**Eco Green Solution Systems Pvt Ltd #. 48-A4, KIADB Industrial Area, Veerapura Post, Doddaballapura - 561203**	$13^0$14'50.0"N $77^0$33'21.1"E	**100 KLD/ 100 %**	Large Scale	15	15	-	-	Electroplating	242
				Medium Scale	28	28	-	-	Garment Washing	43
				Small Scale	396	396	-	-	E-Waste	3
				Total Scale	**439**	**439**	-	-	Battery Industries	15
									Laboratories	43
									Pharmaceuticals	8
									Screen Printing	7
									Manufacturing of Sutures	2
									Plastic Industries	11
									Engineering Industries/Wire Welding	30
									Vehicle Servicing/Washing	3
									Electronic Industries(PCB)	8
									Micro Brewery	3
									Barrel Washing	4
									Copper Oxychloride	1
									Supplementary Foods	5
									Heat Treatment	3
									Bright Steel Bars	3
									Manufacturing of Labels	2
									R & D Centre	1
									Manufacturnig of Jewellery	1
									Treatment Storage & Diposal Facility	1
								Total		**439**
2	**PAI AND PAI CHEMICALS (I) PVT LTD 29/A, 1ST PAHSE, KUMBALGODU INDUSTRIAL AREA, BANGALORE 74**	12.869802N 77.442001E	**300 KLD and 240 KLD/100%**	Large Scale	1	1	--	--	Surface Treatment	10
				Medium Scale	0	0	--	--	Textile	2
				Small Scale	26	26	--	--	Plastic reprocessors	15
				Total Scale	**27**	**27**	--	--	**Total**	**27**

3	**PAI AND PAI CHEMICALS (I) PVT LTD 25/D, 1ST PAHSE, KUMBALGODU INDUSTRIAL AREA, BANGALORE 74**	12.869802N 77.442001E	**40 KLD and 40 KLD/100%**	Large Scale	0	0	--	--	Surface Processing	2
				Medium Scale	0	0	--	--	Pharma and R & D	3
				Small Scale	9	9	--	--	Textile	3
				Total Scale	**9**	**9**	--	--	Food Processing	1
									Total	**9**
4	**M/s. Bangalore Eco Park Pvt Ltd, Plot No.296B, KIADB Indl Area, Sompura Ist Stage, Dobaspet, Bangalore-562 132.**	**13.236454N 77.270558E**	**Installed: 100 KLD Operational-20% 30% KLD**	Large Scale	4	4	--	--	Auto Machinery	2
				Medium Scale	5	5	--	--	Textiles	2
				Small Scale	37	37	--	--	Pharmaceuticals	5
				Total Scale	46	46			TSDF	1
									Plating Industries	13
									Solvent Recycling	6
									Automobiles	4
									R&D Unit	3
									Paint Industry	1
									Breweries	1

									Food Industries	2
									Garments	2
									Engineering Industries	2
									Powder Coating	2
									Total	**46**
5	**CET Plant Malur Private Limited,Plot No.64 & 65 ,KIADB ,Industrial Area,Malur Taluk,Kolar District.**	12.978885N 77.914086E	**Biodegradable 60 KLD, High TDS 80 KLD/100%**	Large Scale	21	21	_	_	Herbal Extract	3
				Medium Scale	10	10	_	_	Food Processing	6
				Small Scale	10	10	_	_	Brewery	2
				Total	41	41	_	_	Pharmaceutical	8
									Textile	1
									Structural Parts	13
									Chemical	8
									Total	**41**
6	**Govind Solvents Pvt Ltd,No19(P)-22,Kunigal Indl Area,Kallanayakana Village,Huttaridurga Hobli,Kunigal - 572 130,Tumkur District.**		**75 KLD/100%**	Large Scale	_	_	_	_		
				Medium Scale	42	42	_	_	Chemicals	4
				Small Scale	_	_	_	_	Pharma	8
				Total	_	_	_	_	Textiles	7
									Engineering	8
									R & D Centre	1
									TSDF	1
									Solvent Recovery	4
									Food Processing	9
									Total	**42**
7	**Viwa Eco Club(CETP),SM 106,Oop Shed No 5 & 6 ,Veerasandra Industrial Estate,Hosur Road,Anekal**	12.8418270N 77.6798090E	**20 KLD/100%**	Large Scale	_	_	_	_	Pharmaceuticals	3
				Medium Scale	2	2	_	_	Surface treatment	1

	Taluk,Bengaluru Urban District			Small Scale	38	38	_	_	Dairy	1
				Total	40	40	_	_	Electroplating	25
									Surface treatment	9
									Textile	1
									Total	**40**
8	**M/s.Lidkar Tanners Enviro control Systems, Tannery Road, Arabic College Post, Nagavara, Bengaluru-560045**	13.0248830N 77.6223060E	**1MLD/ 150-200 KLD**	Large scale	6	Nil	1	_	Textiles	2
				Medium scale	26	Nil	Nil	_	Tannery	1
				Small scale	52	Nil	Nil	_	Powder Coating	6
				Total	84	Nil	1	_	Electro Plating	8
									Chemical Industries	4
									Food Processing	9
									Metal Finisheres	14
									Garmet Washing	18
									Battery Industries	4
									Others	14
									Pharma Formulation	5
									Total	**85**
9	**CETP,MSEZ,Permude,Mangalore**	12.976604N 74.866991E	**0.6 MLD**	Large scale	5	Nil	5	_	Fish Meal Processing	4
				Medium scale	Nil	Nil	Nil	_	Aromatic	1
				Small scale	Nil	Nil	Nil	_		
				Total	5	Nil	5	_	TOTAL	**5**
10	**CETP, Kotepura,Ullal,Mangaluru**	12.838870N 74.831657E	**0.6MLD**	Large scale	Nil	1	5	_	Fish Meal Industries	**13**
				Medium scale	Nil	8	Nil	_		
				Small scale	Nil	4	Nil	_		
				Total	Nil	13	Nil	_		

Annexure 6a

C. PLAN OF ACTION FOR THE MANAGEMENT OF MUNICIPAL SOLID WASTE FOR THE CURRENT YEAR AS PER THE SOLID WASTE MANAGEMENT RULES-2016.

It is submitted that, apart from the above measures, BBMP has plans to establish and commission following projects in coming months for processing wet waste and also long term plans of establishing waste to energy plants.

1. BBMP intends to setup decentralized plants by inviting private parties to construct large bio-methanation plant, with capacity of 50 tons, for treatment of organic municipal solid waste at various locations. This would include operation of the plants with its maintenance of the same for 15 years. The Expression of Interest has been invited vide no. EE/SWM-2/EOI/03/2020-21, Dated: 23.09.2020. By the establishment of these 2 plants, a 100 TPD of wet waste can be processed by 31.12.2021. Tenders will be invited in the month of November-2020.

2. It is also proposed to establish up to 40 TPD wet waste processing capacities in different wards of BTM Assembly constituency. This would require at least 6 months time for operation, from the date of issuance of work order. Land has been earmarked for this. Hence around 145 TPD additional wet waste processing capacity would be additionally created.

3. At Kalika Kendra (Ward No 174 – HSR Layout) which is a waste processing technology demonstration site, a 5 TPD Bio-CNG unit is proposed to be set up for which Government approval has been sought recently. This unit will require about 3 months' time to

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commence operations, from date of issuance of the work order. However, Government has rejected the proposal and asked to invite tender, which would be taken up immediately.

4. Further, out of 13 nos. of 5 TPD Bio-Methanation Plants, only 6 plants are functional and 7 are non-functional. Since each of these plants can process upto 5 TPD of wet waste, it is intended to upgrade and repair these non-functional 7 Bio-Methanation Plant to enhance capacity. The Expression of Interest to upgrade the existing 7 Bio-Methanation Plants has been invited vide No. EE(SWM-2)/EOI/01/2020-21, Dated: 23.09.2020. Hence a total of 65 TPD wet waste can be processed from 13 Bio-Methanation plants. This will be targeted to be achieved by 31.03.2021. Tenders will be invited in the month of November-2020.

5. Apart from the above, in Ward No. 151, a new 4 TPD capacity Bio-CNG plant is set up to process waste in a decentralized manner and is fully functional. Hence almost 70 TPD of decentralized processing can take place by 31.03.2021.

6. Further, BBMP is planning for following Waste to Energy Plants to be established in the coming year.

   i. **KPCL**:

   MoU has been entered with KPCL to establish WtE plant at Bidadi (600 MT of RDF per day). The tender has been invited by KPCL and is in its final stage of approval;

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ii. **M/s Satarem:**

Concessionaire Agreement has been signed on 03.06.2020 to establish a WtE plant at Kannahalli(1000 MTPD / 12 MW Plant). The Power Purchase Agreement has to be approved by BESCOM/ KERC.

iii. **M/s Indium:**

Concessionaire Agreement has been signed on 16.05.2020 to establish a WtE plant at Doddabidrakallu(200 MTPD / 4 MW Plant). The Power Purchase Agreement has to be approved by BESCOM/ KERC.

iv. **M/s 3wayste:**

Concessionaire Agreement has been signed, to establish a WtE plant at Chikkanagamangala (500 MTPD / 9.2 MW Plant). The Power Purchase Agreement has to be approved by BESCOM/ KERC.

v. **M/s Firm Green:**

Proposal to establish WtE at Mavallipurais pending approval by the Government.

vi. **M/s NEG:**

Concessionaire Agreement is in the process of being signed to establish a WtE at Mavallipura (500 MTPD/ 8 MW plant)

From the above 6 proposals, presently the proposal at sl. no. (i), (ii) and (iii) are poised for commencement of work. The commissioning of these 3 waste to energy plants would take between 18 to 24 months. These waste to energy

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plants, would receive mixed waste/ RDF and process it into energy/ CNG. This is estimated to process an additional 2000 TPD waste from the total generation.

7. Further, it is proposed to construct 2 nos. of Aggregator Centres of 50 TPD capacity in BBMP limits at a cost of nearly Rs. 15.00 Crores, DPR has been prepared and tenders are proposed to be invited in the next 15 days. With regard to this, sufficient fund allocation has been made under "Shubra Bengaluru" Grants, by the Government vide G.O. No. UDD:150:MNY:2019, Dated: 04.11.2019. The work is planned to be taken up and completed by December 2021. These aggregator centres would help BBMP to stack all the non reusable, non recyclable, RDF material, which would further be sent to either proposed waste to energy plant or to cement factors to be used as fuel.

8. Further, BBMP has already notified the existing C&D Waste Processing Plant of M/s. Rock Crystals at Chikkajala with processing capacity of 1000 TPD. All service providers are mandated to provide their C&D Waste Management Plan to BBMP and dispose their C&D waste as per C&D Waste Management Rules, 2016 at the designated processing plants.

9. Besides the above, BBMP has entered into an agreement with M/s. Rubble Revival Pvt. Ltd. (an SPV of M/s Rock Crystals) to establish a C&D Waste processing plant, with a processing capacity of 750 TPD. Of this, a capacity of 500 TPD, would be established within the next 6 months and the remaining 250 TPD would be established in the next 6 months. The agency is yet to complete the work of installation of machineries to handle C&D waste.

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and other materials. The Expression of Interest has been invited vide no. EE/SWM-6/EOI/01/2020-21, Dated: 23.09.2020. This is planned to be completed by May-2021. Tenders will be invited in the month of November-2020.

13. It is also proposed to incentivize and encourage home composting and in-situ composting of bulk waste generators through concessions in user fees, so that waste is managed at source.

14. It is proposed to eliminate nearly 1800 Black spots/ Garbage vulnerable points by engaging an agency/ individual firms and monitoring these points through CCTV camera. Expression of Interest for this work has already been invited and tender will be floated based on EOI received by 1st week of November-2020 and work is planned to be completed by March-2021.

15. It is proposed to construct semi permanent structure/ visual barricade for existing lorry points (transfer points) to avoid garbage being seen on road side being transferred from primary vehicles to secondary vehicles. Expression of Interest for this work has already been invited and tender will be floated based on EOI received by 1st week of November-2020 and work is planned to be completed by March-2021.

16. It is proposed to procure jet cleaners/ washers for daily washing of roads/ footpath in CBD Areas and also walls and litter picker areas/ bins etc., to keep the footpath and roads in a clean manner. Expression of Interest for this work has already been invited and tender will be floated based on EOI received by 1st week of

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This measure would ensure that the BBMP would be able to process about 1750 TPD of C&D waste, through the establishment C&D waste plant.

10. Further, BBMP has proposed to upgrade the existing dry waste collection centres and to construct an additional new dry waste collection centres at an estimated cost of Rs. 40.00 Crores. With regard to this, sufficient fund allocation has been made under "Shubra Bengaluru" Grants, by the Government vide G.O. No. UDD:150:MNY:2019, Dated: 04.11.2019. The work is planned to be compl-eted by December2021. This will help BBMP in proper segregation of dry waste thereby enabling recyclable/ reusable materials are recovered using self help groups/ kabadiwalas/ rag pickers. This would help BBMP in reducing the load on landfills.

11. It is proposed to supply, install and commission, with operation and maintenance of decentralized mini in-situ wet/ organic municipal solid waste composting units in BBMP. This would help in handling the wet waste generated at ward level, without sending it to processing plants or landfills. The Expression of Interest has been invited vide no. EE/SWM-6/EOI/03/2020-21, Dated: 23.09.2020. Tenders will be invited in the month of November-2020.

12. It is proposed to procure shredders and choppers and establish these at various locations such as parks and DWCC centres. This will help in shredding of tree branches and coconut tree branches

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November-2020 and work is planned to be completed by March-2021.

17. It is proposed to procure 25 nos., self propelled street sweeping machines were sweeping of major arterial and sub-arterial roads in the city. Tenders will be invited soon after elections model code of conduct and the machines will be put into operation by March-2021.

18. It is proposed to construct and upgrade public toilets with 5 years O & M to meet ODF++ standards in the limits of BBMP. In this regard, tenders have already been invited and construction will be done by June-2021 to construct 25 nos. unique model toilets in 1st phase.

19. It is proposed to provide basic infrastructure facility at mustering centres for Poura Karmikas such as separate toilets, change rooms, rest rooms and for washing hands and giving attendance. In this regard tenders have been invited for providing such facility at 221 locations. These will be in operational by June-2021.

20. It is proposed to conduct IEC activities for brand building and swachch Bengaluru. In this regard, standard operating procedure is being prepared by consultants to conduct IEC activities.

Further, as explained above paras BBMP is in its good intentions intends to setup various decentralized processing plants, waste to energy plants, bio-methanation plants, aggregator centres, dry waste collection centres, C&D Plants etc., in BBMP limits in coming days and this would substantially reduce the

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mixed waste generation thereby reduction in landfills. This of-course would take time from anywhere between 6 months to 2 years of period. BBMP assures that in 2 years time, the above projects will be in place and operational which would result in reduction of mixed waste generation and reducing the landfills.

The above information and submissions may kindly be brought to the notice of the Hon'ble Chairman, NGT, State Level Committee and may kindly appraise the facts and figures as explained above.

Thanking you,

Yours Sincerely

Special Commissioner (SWM)
Bruhat Bengaluru Mahanagara Palike

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Annexure 6c

~~Annexure 4:~~ Details of sewage, municipal solid, plastic, Hazardous and biomedical waste pertaining to 17 PRS

Sl.No	Priority	River Name	District/RO	Polluted Stretch	Sl.No ULBs	ULBs	Town Status	Sewage generation (MLD)	ULB wise present STP capacity (MLD)	Capacity utilization	Gap in treatment(MLD)	Muncipal Solid Waste generated (TPD)	Muncipal Solid Collected (TPD)	Muncipal Solid Processed (TPD)	Muncipal Solid Waste Gap (TPD)	Plastic waste generated(TPD)	Hazardous waste generated (TPD)	Biomedical waste generated (TPD)
1	PIII	**Arkavathi**	Ramanagara	Thippagondanahalli Reservoir to Kanakapura	1	Ramanagara	CMC	10.27	7.56	4.50	2.71	40	36	10	30	0.9863	7.3600	0.0819
					2	Kanakpura	CMC	6.40	6.29	3.60	0.11	24	21.6	4	20	0.1479		
					3	Bengaluru	BBMP	576.00	426.00	270.50	150.00	909	818	525.2	383.8	81.0356		
2	PIII	**Lakshmanteertha**	Mysuru	Hunasuru to Kattemalalvadi	1	Hunsuru	CMC	6.05	3.90	6.05	2.15	23	20.7	8	15	0.4501	0.0076	0.006093
3	PIII	**Malaprabha**	Belagavi	Khanapur to Ramdurg	1	Ramdurga	TMC	4.99	--	--	4.99	16	14.4	2	14	0.1534		0.18
					2	Khanapura	TP	2.32	--	--	2.32	8	7.2	1.4	6.6	0.1370		
					3	Savadatti	TP	4.94	--	--	4.94	15	13.5	5.5	9.5	0.2055		
					4	Mugalkhan-hubli	TP	1.61	--	--	1.61	7	6.3	0	7	0.0071		
					5	Munnawali	TP	2.78	--	--	2.78	10	9	1	9	0.0822		
4	PIII	**Tungabhadra**	Davangere	Harihara to haralahalli	1	Harihara	CMC	10.50	18.00		0.00	30	27	7.5	22.5	2.7397		0.000207
					2	Davanagere	CC	54.87	40.00		14.87	170	153	35	135	5.0959		
					3	Ranibennuru	CMC	13.42	17.16		0.00	60	54	12	48	5.0000		
					4	Honnali	TP	2.37	3.30		3.30	7	6.3	0.3	6.7	0.0110		
					5	huvina-hadgali	TMC	3.80	4.27	2.30	0.00	14.5	13.05	8	6.5	0.0055		
5	PIV	**Bhadhra**	Shivamogga	Bhadravathi to Holehonnur	1	Bhadravathi	CMC	16.74	14.03	5.83	2.71	50	45	18	32	3.0000	0.0230	0.29
6	PIV	**Cauvery**	Chamrajanagara	Muller to Sattegala Bridge, Chamarajanagara	1	Kollegala	CMC	7.21	3.34		3.87	21	18.9	1.5	19.5	2.6904		0.005
				from Ranganattitu Bird Santuary, Srirangapattana Taluk, Mandya District to Sattegala Road Bridge,														
			Mandya	Kollegala Taluk, Chamarajanagar District	2	Srirangapatna	TMC	3.80	3.60	3.60	0.20	10	9	1.8	8.2	0.5836	0.0014	0.0125
			Mysuru		3	bannuru	TMC	2.76	3.30		0.00	8.9	8.01	2	6.9	2.0000	67.3383	0.0152
					4	T-Narsipura	TMC	3.91	5.50	3.91	0.00	10	9	1	9	0.3014		
7	PIV	**Kabini**	Mysuru	Nanjanagud to Hejjige village	1	Nanjanagudu	CMC	5.00	7.00	2.11	0.00	26	23.4	4	22	2.0000		0.0119
8	PIV	**Kagina**	Kalburgi	Shahabad to Hongunta	1	Shahbad	CMC	6.11	0.00		6.11	1.5	1.35	1.5	0	1.6301		0.04
9	PIV	**Kali**	UK - Dandeli	Hasan Maad (west coast paper mill) to	1	Karwar	CMC	9.74	1.50	1.40	8.34	27	24.3	25	2	0.0499	0.0382	0.025
					2	Dandeli	CMC	8.50	0.00	0.00	8.50	18	16.2	17	1	0.0219		
10	PIV	**Krishna**	Chikkodi	Yadurwadi to Jungurwadi village	1	Ugarakhurdha	TMC	2.85	0.00	0.00	2.85	8	7.2	0	8	0.0877	0.0418	0.2265
			Vijayapura Raichur	Yalagur Village to narayanpur Bridge	2	Kudachi	TMC	2.78	0.00	0.00	2.78	6.5	5.85	1.5	5	0.0548	0.0050	0.015
				North of Uppinhal village in Lingur taluk to Tintini														
			Raichur	Bridge in Devadurga taluk	3	Examba	TP	1.97	0.00	0.00	1.97	4.5	4.05	0	4.5	0.0438		
					4	Chinchilli	TP	2.64	0.00		2.64	4.5	4.05	0	4.5	0.0767		
					5	Chikkodi	TMC	4.83	5.80		0.00	14.5	13.05	2.5	12	0.1781		
					6	Ainapura	TP	2.27	0.00	0.00	2.27	5	4.5	0	5	0.0548		
					7	Sadalaga	TMC	3.00	3.72		0.00	5	4.5	1	4	0.0986		
11	PV	**Asangi - Krishna**	Bagalkote	Along Asangi Barrage, Bagalkot District.	1	Rabbakavi-Bannahatti	CMC	9.71	9.50		0.21	26.8	24.12	4	22.8	0.0329	0.0190	0.61
					2	Teradal	TMC	3.30	0.00		3.30	7	6.3	3.11	3.89	0.0082		
12	PV	**Shimsha**	Mandya & Tumkuru	Yediyur to Halagur Bridge stretch	1	Maddur	TMC	4.51	3.50	3.50	1.01	10	9	3	7	1.0274	0.0101	0.02
13	PV	**Bhima**	Kalburgi	Ghanagapur to Yadgir	1	Jewargi	TP	3.25	3.25	0.00	0.00	10	9	4	6	0.7699		0.033
14	PV	**Netravathi**	DK	Netravathi	1	Uppinangdi	TMC	2.00	0.00		2.00	1.5	0.9	0.9	0.6	0.0901		
					2	Panja and Kadaba	TMC	2.00	0.00		2.00	1.9	0.5	0.5	1.4	0.0958		
					3	Bantwala	TMC	5.00		--	5.00	14	12.6	0	14	0.0027		
					4	Beltangdi	TP	1.00	--	--	1.00	2.49	2.2	0	2.49	0.0055		
15	PV	**Kumaradhara**	DK	Kumaradhara	1	Subramanya	GP	1.50	2.60	2.60	0.00	1.1	0.66	0.66	0.44	0.0658		0.18
16	PV	**Tunga**	Shivamogga	Shivamogga To Kudli	1	Shivamogga	CC	52.00	40.71	13.00	12.00	162	145.8	113	49	11.8301	0.2079	1.174
17	PV	**Yagachi**	Hassan	Belur to Halavagilu, Hassan	1	Hassan	CMC	12.17	10.00	10.00	2.17	62	55.8	11	51	3.0959	0.1400	
					2	Belur	TMC	3.38	2.70	2.70	0.68	8	7.2	7.5	0.5	0.3425		
					42			**884.25**	**646.53**	**335.60**	**261.39**	**1860.69**	**1672.49**	**844.37**	**1016.32**	**126.2958**	**75.1923**	**2.9263**

CMC= 14
TMC= 14
CC= 2
TP= 10
GP= 1
BBMP= 1

Annexure 6b

~~Annexure 3~~: Municipal Solid Waste details for Karnataka

SL no	Name of the District	Name of the ULB	Type of ULB	MSW Generated (in TPD)	Total Waste collected(in TPD)	Waste Processed (in TPD)	Gap
Bangalore Division							
1	**Bangalore Rural**	Doddaballapura	CMC	35	31.5	18	17
2		Hosakote	CMC	20	18	3	17
3		Devanahalli	TMC	13	11.7	3	10
4		Vijayapura TMC	TMC	12	10.8	1	11
5		Nelamangala	TMC	20	18	3	17
		Total		**100**	**90**	**28**	**72**
1	**Bengaluru Urban**	Hebbagodi	CMC	30	27	5	25
2		Anekal	TMC	20	18	4	16
3		Attibele	TMC	10	9	1	9
4		Bommasandra	TMC	14	12.6	9	5
5		Chandapura	TMC	8.5	7.65	2.5	6
6		Jigani	TMC	12	10.8	3	9
		BBMP	CC	4500	4050	2600	1900
		Total		**4594.5**	**4135.05**	**2624.5**	**1970**
1	**Ramanagara**	Ramanagara	CMC	40	36	10	30
2		Channapatna	CMC	36	32.4	4	32
3		Kanakapura	CMC	24	21.6	4	20
4		Magadi	TMC	14.5	13.05	6	8.5
5		Bidadi	TMC	15	13.5	3.5	11.5
		Total		**129.5**	**116.55**	**27.5**	**102**
1	**Tumkur**	Tumakuru City Corporation	CC	115	103.5	100	15
2		Tiptur	CMC	23	20.7	14	9
3		Sira	CMC	20	18	6	14
4		Madhugiri	TMC	12	10.8	6.5	5.5
5		TMC C N Halli	TMC	9	8.1	0.5	8.5
6		Pavagada	TMC	12	10.8	1.2	10.8
7		Kunigal	TMC	9.5	8.55	1	8.5
8		Turuvekere	TP	5.5	4.95	1.5	4
9		Koratagere	TP	5	4.5	0.5	4.5
10		Gubbi	Tp	5.5	4.95	1	4.5
		Total		**216.5**	**194.85**	**132.2**	**84.3**
1	**Kolar**	Kolar CMC	CMC	85	76.5	1.2	83.8
2		ROBERTSONPET	CMC	65	58.5	12	53
3		Mulbagal	CMC	24	21.6	5	19
4		Bangarpet	TMC	23.17	20.853	8	15.17
5		Malur	TMC	18	16.2	3	15
6		Srinivasapura	TMC	13.5	12.15	2.5	11
		Total		**228.67**	**205.803**	**31.7**	**196.97**
1	**Chikkaballapura**	chikkaballapur	CMC	26	23.4	8	18
2		Chintamani	CMC	28	25.2	14	14
3		SIDLAGHATTA	CMC	23	20.7	3	20
12		GOURIBIDANUR	CMC	16	14.4	5	11
5		Bagepalli	TMC	8	7.2	1.5	6.5
6		Gudibande	TP	2.5	2.25	1.2	1.3
		Total		**103.5**	**93.15**	**32.7**	**70.8**
1	**Chitradurga**	Chitradurga	CMC	**62**	55.8	**15**	47
2		Challakere	CMC	21	18.9	0.1	20.9
3		Hiriyur	CMC	20	18	2	18
4		Hosdurga	TMC	17.1	15.39	16.5	0.6
5		Holalkere	TP	9.5	8.55	0	9.5
6		Molakalmuru	TP	3.5	3.15	0	3.5

SL no	Name of the District	Name of the ULB	Type of ULB	MSW Generated (in TPD)	Total Waste collected(in TPD)	Waste Processed (in TPD)	Gap
7		Nayakanahatti	TP	4.28	3.852	0	4.28
		Total		**137.38**	**123.642**	**33.6**	**103.78**
1	**Davanagere**	Davanagere	CC	170	153	35	135
2		Harihara	CMC	30	27	7.5	22.5
3		Channagiri	TMC	9	8.1	1	8
4		Malebennuru	TMC	8	7.2	0	8
5		Honnali	TP	7	6.3	0.3	6.7
6		Jagalur	TP	8	7.2	0.5	7.5
7		**Total**		**232**	**208.8**	**44.3**	**187.7**
1	**Shivamogga**	Shivamogga	CC	162	145.8	130	32
2		Bhadravathi	CMC	50	45	18	32
3		Sagara	CMC	23	20.7	6	17
4		Shikaripura	TMC	14.5	13.05	4	10.5
5		Shiralkoppa	TP	7	6.3	1.5	5.5
6		Thirthahalli	TP	2	1.8	0.35	1.65
7		Soraba	TP	9.5	8.55	2.5	7
8		Hosanagara	TP	4	3.6	1	3
9		jog Kargal	TP	4.5	4.05	1.25	3.25
		Total		**276.5**	**248.85**	**164.6**	**111.9**
	Division Total			**6018.55**	**5416.695**	**3119.1**	**2899.45**
			Mysore Division				
1	**Mysuru**	Mysuru, CC	CC	450.00	405	235.00	215
2		Hunsuru, CMC	CMC	23.00	20.7	8.00	15
3		Nanjangudu, CMC	CMC	26.00	23.4	4.00	22
4		K R Nagar, TMC	TMC	13.00	11.7	8.00	5
5		Bannuru, TMC	TMC	8.90	8.01	2.00	6.9
6		T Narsipura, TMC	TMC	10.00	9	1.00	9
7		Periyapatna, TMC	TMC	9.00	8.1	2.20	6.8
8		H D Kote, TMC	TMC	7.96	7.164	1.40	6.56
9		Sarguru, TP	TP	4.57	4.113	0.00	4.57
		Total		**552.43**	**497.187**	**261.6**	**290.83**
1	**Mandya**	CMC Mandya	CMC	60.00	54	5.50	54.5
2		TMC Maddur	TMC	10.00	9	3.00	7
3		TMC Malavalli	TMC	14.00	12.6	2.00	12
4		TMC SRPatna	TMC	10.00	9	1.80	8.2
5		TMC KRPet	TMC	9.00	8.1	2.00	7
6		TMC Pandavapura	TMC	8.29	7.461	2.00	6.29
7		TMC Nagamangala	TMC	10.03	9.027	1.00	9.03
8		TP Belluru	TP	4.00	3.6	0.00	4
		Total		**125.32**	**112.788**	**17.3**	**108.02**
1	**Chamarajanagara**	Chamarajanagar	CMC	34.00	30.6	1.80	32.2
2		Kollegal	CMC	21.00	18.9	1.50	19.5
3		Gundlupet	TMC	10.83	9.747	2.57	8.265
4		Hanur	TP	6.00	5.4	0.00	6
5		Yalandur	TP	3.00	2.7	0.25	2.75
		Total		**74.83**	**67.347**	**6.115**	**68.715**
1	**Kodagu**	CMC, Madikeri	CMC	33.8	30.42	2.5	31.3
2		TP, Kushalnagara	TP	10.7	9.63	1	9.7
3		TP, Somwarpet	TP	4.33	3.897	0.5	3.83
4		Virajpet	TP	8.8	7.92	0.05	8.75
		Total		**57.63**	**51.867**	**4.05**	**53.58**
1	**Hassan**	Hassan	CMC	62.0	55.8	11.0	51
2		Arasikere	CMC	26.0	23.4	12.0	14
3		channarayapatna	TMC	20.0	18	8.0	12
4		Holenrarasipura	TMC	13.0	11.7	2.0	11
5		Sakaleshpura	TMC	10.0	9	2.0	8
6		Belur	TMC	8.0	7.2	7.5	0.5
7		Arkalgud	TP	6.0	5.4	6.0	0
8		Alur	TP	2.5	2.25	2.5	0
		Total		**147.5**	**132.75**	**51**	**96.5**
1	**Chikkamagaluru**	CHIKAMAGALURU	CMC	54.00	48.6	23.00	31
		KADUR	TMC	15.00	13.5	10.00	5
3		BIRUR	TMC	9.00	8.1	0.00	9
4		TARIKERE	TMC	16.00	14.4	10.00	6
5		N.R. PURA	TP	4.00	3.6	2.00	2
6		KOPPA	TP	2.35	2.115	1.41	0.94
7		SRINGERI	TP	4.12	3.708	2.90	1.22
8		MUDIGERE	TP	5.20	4.68	1.90	3.3
9		Kudremukha(NAC)		0.00	0	0.00	0

SL no	Name of the District	Name of the ULB	Type of ULB	MSW Generated (in TPD)	Total Waste collected(in TPD)	Waste Processed (in TPD)	Gap
		Total		**109.67**	**98.703**	**51.21**	**58.46**
1	**Dakshina Kannada**	Mangaluru	CC	350	315	225	125
2		Bantwal	TMC	14.00	12.6	0.00	14
3		Belthangady	T.P.	2.49	2.241	0	2.49
4		Moodubidire	TMC	10.5	9.45	10.5	0
5		MULKI	TP	7	6.3	3	4
6		PUTTUR	CMC	14	12.6	5	9
7		Sullia	TP	6	5.4	2	4
8		Ullal CMC	CMC	17.5	15.75	8	9.5
9		Vitla	TP	4	3.6	4	0
10		KOTEKAR TP	TP	3	2.7	0	3
		Total		**428.49**	**385.641**	**257.5**	**170.99**
1	**Udupi**	UDUPI	CMC	71.5	64.35	6	65.5
2		KARKALA	TMC	10	9	10	0
3		KUNDAPURA	TMC	12.37	11.133	11.5	0.87
4		KAUP	TMC	10	9	10	0
5		SALIGRAMA	TP	4.11	3.699	4.11	0
		Total		**107.98**	**97.182**	**41.61**	**66.37**
	Division Total			**1603.85**	**1443.465**	**690.385**	**913.465**
			Kalburgi Division				
1	**Kalaburgi**	KalaburagiMahanagara Palike	CC	247.35	222.615	99.00	148.35
2		Shahabad	CMC	20.00	18	18.00	2
3		Afzalpur	TMC	9.00	8.1	6.50	2.5
4		Aland	TMC	19.00	17.1	4.00	15
5		Chincholi	TMC	8.00	7.2	2.00	6
6		Chittapur	TMC	9.80	8.82	4.00	5.8
7		Jewargi	TMC	10.00	9	4.00	6
8		Sedam	TMC	13.70	12.33	11.00	2.7
9		Wadi	TMC	14.50	13.05	12.00	2.5
10		Shahabad	NAC	1.50	1.35	1.50	0
		Total		**352.85**	**317.565**	**162**	**190.85**
1	**Yadagiri**	Yadgiri	CMC	29.04	26.136	22.08	6.96
2		Shahapur	CMC	22	19.8	22	0
3		Shorapur	CMC	18.5	16.65	15.5	3
4		Gurumitkal	TMC	8.5	7.65	6	2.5
5		Kembhavi	TMC	6.9	6.21	3.2	3.7
6		Kakkera	TMC	6.03	5.427	3.2	2.83
7		Bhimarayanagudi	NAC	0.0	0	0.0	0
		Total		**90.97**	**81.873**	**71.98**	**18.99**
1	**Raichur**	RAICHUR	CMC	100.00	90	100.00	0
2		SINDHANUR	CMC	36.10	32.49	8.00	28.1
3		MANVI	TMC	19.28	17.352	0.00	19.28
4		DEVADURGA	TMC	6.50	5.85	0.00	6.5
5		LINGSGUR	TMC	14.40	12.96	0.30	14.1
6		MUDGAL	TMC	8.90	8.01	1.00	7.9
7		MASKI	TMC	5.00	4.5	3.50	1.5
8		SIRWAR	TP	0.80	0.72	0.00	0.8
9		KAVITAL	TP	0.50	0.45	0.00	0.5
10		BALGANUR	TP	0.50	0.45	0.00	0.5
11		TURVIHAL	TP	4.00	3.6	0.00	4
12		HUTTI	TP	2.50	2.25	0.00	2.5
		Total		**198.48**	**178.632**	**112.8**	**85.68**
1	**Koppal**	Koppal	CMC	35.00	31.5	32.00	3
2		Gangavati	CMC	45.00	40.5	40.00	5
3		Kustagi	TMC	9.00	8.1	0.00	9
4		Yelburga	TP	8.00	7.2	6.50	1.5
5		Karatagi	TMC	10.00	9	7.50	2.5
6		Tavaragera	TP	3.50	3.15	0.00	3.5
7		Kanakagiri	TP	3.50	3.15	0.00	3.5
8		Kukanoor	TP	3.50	3.15	3.00	0.5
9		Bhagyanagar	T.P	7.00	6.3	0.00	7
		Total		**124.5**	**112.05**	**89**	**35.5**
1	**Bidar**	bidar	cmc	91	81.9	65	26
2		bhalki	TMC	14	12.6	10	4
3		basavkalyan	cmc	28	25.2	15	13
4		chittaguppa	tmc	11	9.9	8	3
5		Aurad	Tp	6.5	5.85	0	6.5
6		Humanabad	TMC	19	17.1	5	14
7		hallikhed	TMC	7	6.3	0	7
		Total		**176.5**	**158.85**	**103**	**73.5**
1	**Ballari**	Bellary (M Corp.)	CC	180	162	1.5	178.5
2		Hospet (CMC)	CMC	110	99	0	110
3		Siruguppa (CMC)	CMC	28	25.2	0	28
4		Kampli (TMC)	TMC	12	10.8	2.6	9.4
5		Sandur (TMC)	TMC	17	15.3	1.2	15.8
6		Hoovina Hadagalli (TMC)	TMC	14.5	13.05	8	6.5
7		Kurekuppa (TMC)	TMC	8	7.2	0.167	7.833

SL no	Name of the District	Name of the ULB	Type of ULB	MSW Generated (in TPD)	Total Waste collected(in TPD)	Waste Processed (in TPD)	Gap
8		Kurudugodu (TMC)	TMC	10	9	0	10
9		Hagaribommanahalli (TMC)	TMC	12	10.8	0	12
10		Harapanahalli (TMC)	TMC	16.4	14.76	0	16.4
11		Kotturu (TP)	TP	12	10.8	0.28	11.72
12		Kudligi (TP)	TP	10.39	9.351	0	10.39
13		Tekkalakote (TP)	TP	12.5	11.25	0	12.5
14		Kamalapuram (TP)	TP	9	8.1	2.25	6.75
15		Mariyammanahalli (TP)	TP	10	9	0	10
16		Kudatini (TP)	TP	8.04	7.236	0	8.04
	Total			**469.83**	**422.847**	**15.997**	**453.833**
	Division Total			**1413.13**	**1271.817**	**554.777**	**858.353**
				Belguam Division			
1	Belagavi	Belagavi	CCB	245	220.5	245	0
2		Nippani	CMC	22	19.8	3.5	18.5
3		Gokak	CMC	30	27	14	16
4		Bailhongal	TMC	18	16.2	4	14
5		Saundatti	TMC	15	13.5	5.5	9.5
6		Ramdurg	TMC	16	14.4	2	14
7		Mudalagi	TMC	11	9.9	2	9
8		Sankeshwar	TMC	12.5	11.25	2	10.5
9		Athani	TMC	15	13.5	4.2	10.8
10		Chikkodi	TMC	14.5	13.05	2.5	12
11		Hukkeri	TMC	8.75	7.875	2.2	6.55
12		Khanapur	TP	8	7.2	1.4	6.6
13		Konnur	TMC	9.5	8.55	2.5	7
14		Sadalaga	TMC	5	4.5	1	4
15		Raibag	TP	5.5	4.95	0.5	5
16		Kudachi	TMC	6.5	5.85	1.5	5
17		Mugalkhod	TMC	7.5	6.75	0.5	7
18		Harugeri	TMC	8.6	7.74	0.5	8.1
19		Ugarkhurd	TMC	8	7.2	0	8
20		Munavalli	TMC	10	9	1	9
21		Chinchali	TP	4.5	4.05	0	4.5
22		Kankanwadi	TP	4.19	3.771	0	4.19
23		Ainapur	TP	5	4.5	0	5
24		Shedabal	TP	2.5	2.25	0	2.5
25		Examba	TP	4.5	4.05	0	4.5
26		Kabbur	TP	6.2	5.58	0	6.2
27		Kalloli	TP	4.2	3.78	0	4.2
28		Mallapur PG	TP	4.5	4.05	0	4.5
29		Naganur	TP	4.5	4.05	0	4.5
30		Kittur	TP	6	5.4	5	1
31		MK Hubli	TP	7	6.3	0	7
32		Boragaon	TP	5	4.5	0	5
33		Arabhavi	TP	5	4.5	1.3	3.7
TOTAL				**539.44**	**485.496**	**302.1**	**237.34**
1	BAGALKOT	BAGALKOT	CMC	50	45	30	20
2		RABAKAVI- BANAHATTI	CMC	26.80	24.12	4.00	22.8
3		CMC, JAMKHANDI	CMC	22	19.8	10	12
4		ILKLAL	CMC	24	21.6	9	15
5		MUDHOL,	CMC	22	19.8	4	18
6		MAHALINGAPUR	TMC,	13	11.7	7.5	5.5
7		TERDAL	TMC,	7	6.3	3.11	3.89
8		GULEDAGUDDA	TMC,	13	11.7	7	6
9		BADAMI	TMC	13	11.7	2	11
10		HUNGUND	TMC	13.00	11.7	2.00	11
11		KERUR	TP	5	4.5	1	4
12		BILAGAI	TP	6.5	5.85	0.5	6
13		KAMATAGI	TP	4.36	3.924	0	4.36
14		AMINGAD	TP	4.36	3.924	0	4.36
15		BELAGALI	TP	4.36	3.924	0	4.36
TOTAL				**228.38**	**205.542**	**80.11**	**148.27**
	VIJAYAPUR	Vijayapura	City corporation	117	105.3	40	77
		Basavana Bagevadi	TMC	14	12.6	2	12
		Indi	TMC	12	10.8	10	2
		Muddebihal	TMC	12	10.8	9	3
		Sindgi	TMC	12	10.8	10	2
		Talikota	TMC	12	10.8	11	1
		Almel	TP	3.5	3.15	0.5	3
		Chadachan	TP	6.5	5.85	0	6.5
		Devarhipparagi	TP	3	2.7	0.3	2.7
		Kolhar	TP	4	3.6	4	0
		Managuli	TP	4	3.6	0	4
		Nalattwad	TP	4	3.6	0	4

SL no	Name of the District	Name of the ULB	Type of ULB	MSW Generated (in TPD)	Total Waste collected(in TPD)	Waste Processed (in TPD)	Gap
		Nidagundi	TP	5	4.5	0	5
TOTAL				**209**	**188.1**	**86.8**	**122.2**
1	Dharwad	HDMC	CC	400.00	360	15.00	385
2		Annigeri	TMC	10.50	9.45	6.00	4.5
3		Navalgund	TMC	9.38	8.442	7.60	1.78
4		Alnavar	TP	6.50	5.85	4.80	1.7
5		Kalaghatagi	TP	6.35	5.715	4.60	1.75
6		Kundgol	TP	6.00	5.4	4.00	2
TOTAL				**438.73**	**394.857**	**42**	**396.73**
1	Gadag	Gadag Betageri	CMC	74	66.6	22	52
2		Gajendragad	TMC	11	9.9	5	6
3		Laxmeshwar	TMC	12	10.8	6	6
4		Mundaragi	TMC	9	8.1	3	6
5		Naragund	TMC	14	12.6	3	11
6		Ron	TMC	8	7.2	1	7
7		Mulgund	TP	7	6.3	1	6
8		Naregal	TP	6	5.4	3	3
9		Shirhatti	TP	6	5.4	1	5
TOTAL				**147**	**132.3**	**45**	**102**
1	Haveri	CMC Haveri	CMC	33.5	30.15	12	21.5
2		CMC Ranebennnur	CMC	60	54	12	48
3		TMC Byadgi	TMC	9	8.1	3	6
4		TMC Hanagal	TMC	13	11.7	5	8
5		TMC Savanur	TMC	15	13.5	2	13
6		TMC Shiggaon	TMC	10	9	5	5
7		TMC Bankapur	TMC	10	9	1	9
8		TP Hiekerur	TP	7	6.3	6	1
9		TP Guttal	TP	8	7.2	0	8
TOTAL				**165.5**	**148.95**	**46**	**119.5**
1	Uttar Kannada	Karwar	CMC	27	24.3	25	2
2		Sirsi	CMC	25	22.5	23	2
3		Dandeli	CMC	18	16.2	17	1
4		Bhatkal	TMC	14	12.6	13.5	0.5
5		Kumta	TMC	10	9	9	1
6		Ankola	TMC	7	6.3	6.5	0.5
7		Haliyal	TMC	9	8.1	8	1
8		Honnavar	TP	7	6.3	6.5	0.5
9		Siddapur	TP	6	5.4	5.5	0.5
10		Yellapur	TP	14	12.6	12	2
11		Mundgod	TP	7.5	6.75	7	0.5
12		Jali	TP	8	7.2	7	1
TOTAL				**152.5**	**137.25**	**140**	**12.5**
Division TOTAL				**1880.55**	**1692.495**	**742.01**	**1138.54**
Grand Total				**10916.08**	**9824.472**	**5106.272**	**5809.808**

Annexure 7: Proposed FSSM for Karnataka

ULB wise Census data					Approximate Calculation	
Sl. No./Division/District Name	Name of the ULB	Category of ULB	Total of Sludge Genearated per Day in KLD	No. of cities Selected for FSSM	Capex Cost	Opex Cost per annum
1	2	3	10	11	12	13
Bengaluru Division						
Bengaluru Urban						
2	Jigani	TMC	15	1	4,84,70,100	51,93,225
Bengaluru Rural						
4	Vijaypura	TMC	11	1	3,51,68,000	37,68,000
Ramanagara						
Tumakuru						
6	Chikkanayakanahalli	TMC	6	1	1,96,13,300	21,01,425
7	Pavagada	TMC	7	1	2,33,53,400	25,02,150
	Total		13	2	**4,29,66,700**	**46,03,575**
Kolar						
8	Bangarpete	TMC	15	1	4,73,85,800	50,77,050
	Total		15	1	**4,73,85,800**	**50,77,050**
Chikkaballapura						
9	Gowribidanuru	TMC	12	1	3,93,37,200	42,14,700
	Total		12	1	**3,93,37,200**	**42,14,700**
Chitradurga						
10	Holalkere	TP	4	1	1,40,16,800	15,01,800
	Total		4	1	**1,40,16,800**	**15,01,800**
Davanagere						
11	Malebennuru	TMC	6	1	2,04,85,500	21,94,875
	Total		6	1	**2,04,85,500**	**21,94,875**
Shivamogga						
12	Hosanagara	TP	2	1	51,46,400	5,51,400
13	Thirthahalli	TP	3	1	1,12,07,700	12,00,825
	Total		5	2	**1,63,54,100**	**17,52,225**
Mysuru Division						
Mysore						
14	H D Kote	TMC	5	1	1,71,55,600	18,38,100
	Total		5	1	**1,71,55,600**	**18,38,100**
Mandya						
15	Srirangapattana	TMC	6	1	2,00,23,500	21,45,375
	Total		6	1	**2,00,23,500**	**21,45,375**
Chamarajanagara						

16	Hanur	TP	3	1	1,10,78,900	11,87,025
	Total		3	1	**1,10,78,900**	**11,87,025**
Kodagu						
17	Somavarpet	TP	2	1	50,43,500	5,40,375
18	Virajapete	TP	5	1	1,58,36,100	16,96,725
	Total		6	2	**2,08,79,600**	**22,37,100**
Hassan						
19	Sakaleshpura	TMC	5	1	1,77,35,200	19,00,200
20	Alur	TP	2	1	57,98,800	6,21,300
	Total		7	2	**2,35,34,000**	**25,21,500**
Chikkamagaluru						
21	Tarikere	TMC	10	1	3,25,51,400	34,87,650
22	Narsimharajpura	TP	2	1	53,33,300	5,71,425
	Total		12	2	**3,78,84,700**	**40,59,075**
Dakshina Kannada						
23	Puttur	CMC	16	1	5,24,05,500	56,14,875
24	Vitla	TP	9	1	2,84,01,100	30,42,975
	Total		25	2	**8,08,06,600**	**86,57,850**
Udupi						
25	Karkala	TMC	6	1	1,92,99,700	20,67,825
	Total		6	1	**1,92,99,700**	**20,67,825**
Belagavi Division						
Belagavi						
26	Athani	TMC	15	1	4,95,46,000	53,08,500
27	Nippani	CMC	16	1	5,33,91,800	57,20,550
28	Konnur	TP	6	1	1,97,26,700	21,13,575
29	Mudalgi	TMC	7	1	2,27,59,800	24,38,550
30	Kallolli	TP	10	1	3,38,90,500	36,31,125
31	P G Mallapur	TP	5	1	1,68,65,100	18,06,975
32	Naganur	TP	5	1	1,70,04,750	18,21,938
33	Arabavi	TP	3	1	96,37,600	10,32,600
34	Boragaon	TP	5	1	1,68,10,500	18,01,125
35	Raibagh	TP	6	1	1,96,36,400	21,03,900
36	Shedbal					
37	Ugarkhurd					
38	Kudachi					
39	Examba					
40	Chichali					
	Total		79	10	25,92,69,150	2,77,78,838
Bagalakote						
41	Kerur	TP	5	1	1,79,25,600	19,20,600
41	Terdal	TMC	8	1	2,60,68,000	27,93,000
	Total		13	2	**4,39,93,600**	**47,13,600**

Haveri						
39	Savanuru	TMC	12	1	3,86,07,100	41,36,475
40	Hanagal	TMC	8	1	2,63,97,000	28,28,250
	Total		20	2	6,50,04,100	69,64,725
Dharwad						
41	Alnavar	TP	4	1	1,41,89,000	15,20,250
	Total		4	1	1,41,89,000	15,20,250
Gadag-Betageri						
42	Mulagunda	TP	5	1	1,51,45,200	16,22,700
	Total		5	1	1,51,45,200	16,22,700
Uttara Kannada						
43	Sirasi	CMC	16	1	5,35,72,400	57,39,900
44	Mundagod	TP	5	1	1,76,62,400	18,92,400
	Total		22	2	7,12,34,800	76,32,300
Kalaburagi Division						
Kalaburagi						
45	Shahabad	CMC	12	1	3,97,60,700	42,60,075
46	Afzalpur	TMC	13	1	4,23,83,600	45,41,100
47	Chincholi	TMC	8	1	2,73,88,900	29,34,525
	Total		34	3	10,95,33,200	1,17,35,700
Yadagiri						
48	Shahapur	CMC	24	1	7,97,71,300	85,46,925
	Total		24	1	7,97,71,300	85,46,925
Raichur						
49	Manvi	TMC	16	1	5,35,11,500	57,33,375
	Total		16	1	5,35,11,500	57,33,375
Koppal						
50	Kustagi	TMC	9	1	2,84,80,200	30,51,450
	Total		9	1	2,84,80,200	30,51,450
Bidar						
51	Basavakalyana	CMC	24	1	7,79,87,000	83,55,750
52	Aurad	TP	7	1	2,19,14,200	23,47,950
	Total		31	2	9,99,01,200	1,07,03,700
Ballari						
54	Sirguppa	CMC	19	1	6,08,30,000	65,17,500
55	Tekkalakote	TP	8	1	2,50,84,500	26,87,625
	Grand Total		512	55	1,67,05,12,550	17,89,83,488

Note: there is a counting error and total number of FSSM proposed is 50 and total sludge generation per day is 433 KLD

Annexure-8

Abstract of drains leading to polluted river stretchs in Cauvery basin, Karnataka										
Sl. No.	**River name**	**Priority**	**Length of polluted stretch (km)**	**Polluted stretch**	**No. of drains**	**Drain No.**	**Drain location**	**Co-ordinates**	**Drain length (km)**	**BOD (mg/L)**
1	Yagachi	V	60	Belur to Halavagilu, Hassan	2	1	Untreated sewage drain from missed links and bypassed sewage effluent from wet well ultimately joining river Yagachi near Halavagilu, Hassan.	Latitude: 12°58'35.72"N Longitude : 76°02'58.47"E	3	160
						2	Bypassed sewage effluent drain joining river Yagachi near STP of the Belur.	Latitude: 13°09'59.25"N Longitude : 76°52'27.85"E	0.1	63
2	Shimsha	V	80	Yediyur to Halagur Bridge stretch	1	Drain-1	water sample from strom water drain leading to Shimsha river near Dandimaramma temple, Hokkalageri Beedi Maddur		2	28

3	Cauvery	IV	50	Muller to Sattegala Bridge, Chamarajanagara	9	1	Water sample from drain collected in between Dasanapura & Harale village agriculture land sewage/sullage effluent contributed from kollegal town joining Cauvery river, Kollegala Taluk, Chamarajanagar	in between Dasanapura & Harale village agriculture 12^0 11' 10'' N 77^0 (23'' E	Guppanmma canal-7.50 Km: 2.Sircanad Canal-1.06 Km. Mudigumndam near Harale & Dasanapura-2.25 Km	8.7
						2	Water sample collected from kabini nalla carrying drain effluent which joins Cauvery river behind Puttaswamy Nayak agriculture land, Mullur village, Kollegala Taluk, Chamarajanagar	12^0 9' 46'' N $77^0$3' 20'' E	2.50 km	18.2
						3	Water sample collected from drain passing infront of Mullur gram panchayath office which inturn joins suvarnavathi near mudigundam and ultimately joins Cauvery river at Mullur village, Kollegala Taluk, Chamarajanagar	12^0 9' 42'' N $77^0$3' 48'' E	2.50 km	30
						4	Water sample from drain collected in front of near Late Mr Ammavase Mahadeva House joining Cauvery River Dasanapura village, Kollegala Taluk, Chamarajanagar	12^0 11' 13'' N 77^0 6' 0 ''E	50 m	91

						5	Water sample from drain collected in front of Maramma Temple joining Cauvery River, DasanaPura village, Kollegala Taluk, Chamarajanagar	12^0 11' 13'' N $77^0$5' 56'' E	30m	28
						6	Water sample from drain collected in front of Sri Mahadeva, Door No 25 Dasanapura village joining Cauvery River Kollegala Taluk, Chamarajanagar.	12^0 11' 12'' N $77^0$5' 52'' E	25m	69
						7	Water sample from drain collected near Nayakara Bidhi joining Cauvery River, Haralle village, Kollegala Taluk, Chamarajanagar.	12^0 11' 26'' N $77^0$6 4'3'' E	100 m	14.3
						8	Water sample from drain collected near SC/ST Bidhi joining Cauvery River, Haralle village, Kollegala Taluk, Chamarajanagar	12^0 11' 22'' N $77^0$63' 7 ''E	100 m	135
						9	Water sample from drain collected , leading to right Bank of Cauvery river near yadakuri village, kollegala taluk, chamarajanagar district	12^0 14' 25'' N $77^0$8'1'' E	206 m	24
				from Ranganattitu Bird Santuary, Srirangapattana Taluk, Mandya District to Sattegala Road Bridge, Kollegala Taluk, Chamarajanagar District	3	1	storm water drain near Tippu death palace at police quatres leading to open valley and finally reaching Cauvery river		0.015	42.7
						2	open storm water drain at wet well near Nimishamba temple road on right side of river bank of Cauvery which leads to Cauvery river		0.02	23.4
						3	open storm water drain at wet well near Shambulinga Katte leads to Cauvery river in Boodigunde road, Srirangapatana		0.015	20
				from Bannur to T. Narasipura Taluk	6	1	Natural valley leading to left bank of river Cauvery near Kubera Narasimha temple at Somanathapura-7th old drain		8	2.2
						2	Natural valley leading to left bank of river Cauvery near downstream of Bannur bridge 3rd old drain		5	2.9
						3	T. Narasipura through mini STP and drains leading to right bank of Cauvery river near first grade degree college T. Narsipura town		5	86

						4	t. Narasipura through mini STP and drains leading to right bank of Cauvery river near Gunja Narasimhaswamy temple T. Narsipura town		5	41
						5	T. Narasipura through mini STP and drains leading to right bank of Cauvery river near Gopalapura new bridge T. Narasipura town		6	16.5
						6	T. Narasipura through mini STP and drains leading to right bank of Cauvery river near Byrapura Old bridge T. Narasipura town		5	19.8
4	Kabini	IV	9	Nanjanagud to Hejjige village	6	1	Storm water drain carrying Sewage / sullage effluent from CMC Nanjangud town leading to right bank of Kabini river near Hadinaru Kallumantapa, Nanjangud Town		6	51.2
						2	Storm water drain carrying Sewage / sullage effluent from CMC Nanjangud town entering into Gundlu river and finally joins to Kabini river near vokkalageri, Nanjangud Town		5	75
						3	Sewage / sullage effluent from CMC Nanjangud town entering into Gundlu river and finally joins to Kabini river at Rajaji colony, Nanjangud Town		5	27
						4	Storm water drain leading to River Kabini behind Military camp, Nanjangud		7	7.7
						5	Storm water drain at Kabini River near Rameshwara Temple, Debur, Nanjangud		6	9.2
						6	Water sample collected from Gundlu River leading to River Kabini near Chamarajanagar road side bridge, Nanjangud		12	1
5	Lakshman atheertha	III	10	Hunasuru to Kattemalalvadi	2	1	Storm water drain carrying Sullage from CMC Hunsur up stream of water supply intake point		3	2.4
						2	Storm water drain carrying sullage from CMC Hunsur Down Stream in Shabirnagar		5	2.7

6	Arkavathi	III	55	Thippagondanahalli Reservoir to Kanakapura	16	E-160	Storm water drain located near Old Pump House, Dyavarsegowdanadoddi, Ward No 1, Ramanagara City	Latitude: 12°43'54.87"N Longitude : 77°16'57.32"E		344
						E-161	Storm water drain located Near B.M Road near Arkavathi Bridge towards Ward No 27 Ramanagara City	Latitude: 12°43'47.22"N Longitude : 77°16'54.64"E		405
						E-162	Storm water drain located Near B.M Road opposite to Ramakrishna hospital Ramanagara City	Latitude: 12°43'35.85"N Longitude : 77°16'36.92"E		428
						E-163	Storm water drain located Near B.M Road near Arkavathi Bridge towards Ward No 27 Ramanagara City	Latitude: 12°43'48.19"N Longitude : 77°16'52.44"E		213
						E-164	Storm water drain located Near industrial estate ward no-8, Ramanagara City,	Latitude: 12°43'27.08"N Longitude : 77°16'36.78"E		489
						E-165	Storm water drain located Opposite to Ambedkar Bhavan Ward No 8, Ramanagara City.	Latitude: 12°43'13.45"N Longitude : 77°16'39.19"E		177
						E-166	Storm water drain located Near railway bridge towards B-M road near Kanakapura Circle, Ramanagara	Latitude: 12°42'45.65"N Longitude :77°16'36.84"E		132
						E-167	Storm water drain located Near Balgeri railway bridge Ward No 13, Ramanagara City	Latitude:12°42'42.64"N Longitude :77°16'40.55"E		120
						E-168	Storm water drain located Near Swimming Pool road at Ward No 18, Ramanagara city	Latitude:12°42'23.78"N Longitude :77°17'4.30"E		382

						E-169	Storm water drain located Near Chammundeshwari Temple Road ,Ward No 06, Ramanagara city	Latitude:12°43'33.35"N Longitude :77°16'38.32"E		315
						E-170	Storm water drain located Opposite to BM Road Bridge Ward No 4, Ramanagara city	Latitude:12°43'42.20"N Longitude :77°16'50.98"E		328
						E-172	Storm water drain located near B.M Road, Kanakapura Town	Latitude: 12°33'34.65"N Longitude:77°25'32.22"E		28
						E-173	Storm water drain located Near Malagalu Bridge , Kanakapura Town	Latitude:12°32'41.49"N Longitude: 77°25'36.65"E		147
						E-174	Storm water drain located Near Malagalu Dairy , Kanakapura Town	Latitude:12°32'44.18"N Longitude: 77°25'40.23"E		206
						E-175	Storm water drain located Near KSRTC Bus stop, Kanakapura	Town Latitude:12°32'50.95"N Longitude: 77°25'39.24"E		12.4
						E-176	Storm water drain located Near Kelagina kote, Kanakapura Town			201

Abstract of drains leading to polluted river stretchs in west flowing basin, Karnataka

Sl. No.	River name	River name	Length of polluted stretch (km)	Polluted stretch	No. of drains	Drain No.	Drain location	Co-ordinates	Drain length (km)	BOD (mg/L)
7	Kali	IV	10	Hasan Maad (west coast paper mill) to Bommanahalli	5	1	Halmadi Nalla, Dandeli	15.245756 N, 74.635991 E		18
						2	Bailpar Bridge Cross, Old Dandeli	15.235565 N, 74.617418 E		22

						3	Opp Gate-3 of West Coast Paper Mills Ltd, Dandeli	15.246695 N, 74.630080 E		28
						4	Mirachigalli Bridge, Old Dandeli	15.243819 N, 74.622409 E		18
						5	Behind DSFA, Patel Nagar bridge, Dandeli	15.248093 N, 74.605713 E		19
8 and 9	Netravathi and Kumaradhara	V	55	Netravathi and Kumaradhara	13	1	Downstream River Netravathi Collected near Shanthipadi, Thalipadapu Village (1041)			2
						2	Downstream of River Netravathi Collected near Panemangaluru Old bridge side A.M Masjid, Gudinabali (1042)			2
						3	Downstream River Netravathi Collected near Shree veera vittala rudra bhoomi, Panemangaluru Old Bridge (1043)			2
						4	Upstream of River Netravathi Collected near Jodumarga, Kanchikere pete (1044)			2
						5	Upstream of River Netravathi Collected near Fish market (1045)			2
						6	Storm water drain collected at Aradhya layout, Alethoor Village, Bantwal (1046).			3
						7	Storm water drain collected at Shanthiangady, Thalipadpu, Bantwal (1047)			4
						8	Storm water drain collected at Modankapu near Railway track (1048)			3
						9	Storm water drain collected at Aladka, Bogady, Near Melkar (1049).			3
						10	Storm water drain collected at Panemangalore near Fish market Bridge (1050)			3
						11	Storm water drain collected at near Kanchikerepete, Jodumarga (1051)			3
						12	Storm water drain collected at Baddakatte bridge, Bantwal (1052)			3
						13	Storm water drain collected at Aladka, near S.S Auditorium (1053)			3
Abstract of drains leading to polluted river stretches in krishna basin										

Sl. No.	River name	River name	Polluted stretch	Length of polluted stretch (km)	No. of drains	Drain No.	Drain location	Co-ordinates	Drain length (km)	BOD (mg/L)
10	Malaprabha	III	Khanapur to Ramdurg	80	18	1	Water sample collected from Karambala nala sewage confluence point			23
						2	Water sample collected at Karlaga Road Bridge			1.12
						3	Water sample collected from Nala near Chikkmunoli bridge			1.74
						4	Water sample collected from Tattihala between Itagi and Itagi cross			1.14
						5	Malaprabha River sample collected at Holemmadevi temple Hunasikatti (Malaprabha SSK D/s)			1.26
						6	Water sample collected at Holinagalapur Nala Bridge,			2.82
						7	Malaprabha River back water sample collected at Nayanagar Bridge			2.17
						8	Water sample collected from Shapurwala nala Khanapur sewage confluence point			23
						9	Water sample collected from Nalla between Doddahosur and Yadoga Road			0.78
						10	Water sample collected from Devalatti Halla			1.38
						11	Water sample collected from Hoovinahalla near MK Hubli			2.1
						12	Water sample collected from Malaprabha River water sample collected at Gangambika Temple KH4.			0.9
						13	Water sample collected from Malaprabha River water sample collected at Holemmadevi temple Hunasikatti (Malaprabha SSK D/s)			1.5
						14	Water sample collected at Neginaal Doddahalla			5.3
						15	Water sample collected from Nalla near Renuks Sugars Ltd., Munolli			1.14
						16	Water sample collected from Doddahalla at Munolli to Shindogi Road			0.66

						17	Water sample collected from Tegyal Halla from Munoli to Katkol Road			0.78
						18	Water sample collected from Halolli Halla between halolli to Sunnal Road			0.3
11	Tungabhadra	III	Harihara to haralahalli	60	6	1	Nadiharalahalli Village	latitude:14.554117 Longitude:75.809903		3
						2	Airani village	latitude:14.63873 Longitude:75.810843		2.4
						3	Hirebidari Village	latitude:14.596015 Longitude:75.803972		2.2
						4	Konanathambige village	latitude14.671965 Longitude:75.797137		2.4
						5	Somalapura Village	latitude:14.673898 Longitude:75.772827		2.2
						6	Kuravathi Village	latitude:14.783427 Longitude:75.7010013		3

12	Kagina	IV	Shahabad to Hongunta	10	1	1	Drain from shahabad joining near railway bride at Gola village	latitude:17.108208N Longitude:76.955617S		
13	Bhima	V	Ghanagapur to yadgir	160	5	1	Chinna Hagari near Kudlgi Village	latitude:17.088085N Longitude:76.52046E		
						2	Drain joining at Nelogi Village	latitude:17.061224N Longitude:76.596300E		
						3	Drain joining at Harwal Village	latitude:17.075521N Longitude:76.672574E		
						4	Drain joining at Kattisangavi Village	latitude:17.042919N Longitude:76.820296E		
						5	Drain from Yadgir joining upstream of the Bridge	latitude:16.739256N Longitude:77.120121E		
14	Krishna	IV	Yadurwadi to Junjarwadi	96	26	1	Yadurwadi	latitude:16.60568 Longitude:74.68154		16.2
						2	Kallola	latitude:16.57535 Longitude:74.64262		5.22
						3	Yadur	latitude:16.57114 Longitude:74.66414		3

4	Ankali	latitude:16.547345 Longitude:74.682533		3.9
5	Bavan Saudatti	latitude:16.558274 Longitude:74.702167		1.02
6	Diggewadi	latitude:16.567793 Longitude:74.746118		3.9
7	Chinchalli	latitude:16.343296 Longitude:74.474674		2.46
8	Malawad	latitude:16.344413 Longitude:74.473057		2.22
9	Krishna Kittur	latitude:16.381595 Longitude:74.544653		2.2
10	Shirgur	latitude:16.365143 Longitude:74.55916		1.98
11	Kudachi	latitude:16.63838 Longitude:74.84928		191
12	Sapatsagar	latitude:16.633246 Longitude:74.948080		1.86

13	Agarani	latitude:16.394606 Longitude:74.575065		3.6
14	Hulagabali	latitude:16.659864 Longitude:74.992670		3.3
15	Nadi Ingalgaon	latitude:16.646961 Longitude:74.997551		6.22
16	Darur	latitude:16.637928 Longitude:75.021071		2.7
17	Halyal	latitude:16.641507 Longitude:75.022056		1.86
18	Avarkhod	latitude:16.630357 Longitude:75.030256		1.98
19	Khavatakoppa	latitude:16.596084 Longitude:75.038497		12.3
20	Shegunshi	latitude:16.572303 Longitude:75.053860		25
21	Satti	latitude:16.568606 Longitude:75.077527		8.5

						22	Nadeshwar	latitude:16.545675 Longitude:75.092835		1.38
						23	Janawad	latitude:16.552266 Longitude:75.161556		2.82
						24	Savadi	latitude:16.589390 Longitude:75.157020		7.65
						25	Shirhatti	latitude:16.365374 Longitude:75123295		1.02
						26	Zunjarwadi	latitude:16.37865 Longitude:75132367		1.26
			Yalagur village to Narayanapur bridge	55	5	1	Yalagur Gram Panchayat Drain	latitude:16.319448 Longitude:75.930884		4
						2	Kalagi Gram Panchayat Drain	latitude:16.306177 Longitude:76.012096		4
						3	Mudur Gram Panchayat Drain	latitude:16.303526 Longitude:76.024077		98
						4	Tangadagi Gram Panchayat Drain	latitude:16.214347 Longitude:76.085064		3

						5	Nalatwad Town Panchayat	latitude:16.235070 Longitude:76.319878		135
			North of Uppinhal village in Lingsugur taluk- to Tinthini Bridge in Devadurga Taluk	38.57	7	1	Sunakal Nala	latitude:16.123021 Longitude:76.24144		2.2
						2	Halabhavi Nala	latitude:16.124803 Longitude:76.26024		2.2
						3	Jaladurga Nala	latitude:16.145108 Longitude:76.25392		2
						4	Gonavatla Nala	latitude:16.143044 Longitude:76.29229		3
						5	Guntagola Nala	latitude:16.170905 Longitude:76.3052		3
						6	Ramroti Nala	latitude:16.183056 Longitude:76.33536		3
						7	Raidurga Nala	latitude:16.200216 Longitude:76.36474		3
			Along Asangi Barrage, Bagalkot District.	33	3	1	Rabakavi-Banahatti at Asangi			23.1
						2	Terdal Nala			
						3	Jamakhandi Nala			

16	Bhadra	IV	Bhadravathi to Holehonnur	10	6	1	Nala Joining Bhadra River near Kavalagundi (Jedikatte)	latitude:13.854543 Longitude:75.69204		
						2	Nala Joining Bhadra River near Kagekodamagge	latitude:13.884397 Longitude:75.707527		
						3	Nala Joining Bhadra River near Malenahalli	latitude:13.854534 Longitude:75.692036		
						4	Nala Joining Bhadra River near Aradodalu	latitude:13.937349 Longitude:75.71153		
						5	Nala Joining Bhadra River near Belagalu	latitude:13.964777 Longitude:75.691345		
						6	Nala Joining Bhadra River near Koppa (Holehonnuru)	latitude:13.992052 Longitude:75.682718		
17	Tunga	V	Shivamogga To Kudli	10	6	1	Nala Joining Tunga River near Harakere	latitude:13.907954 Longitude:75.562393		
						2	Nala Joining Tunga River near Urgadur	latitude:13.913138 Longitude:75.585111		
						3	Nala Joining Tunga River near Purle	latitude:13.931082 Longitude:75.591899		

						4	Nala Joining Tunga River near Holebenavalli	latitude:13.943612 Longitude:75.632977		
						5	Nala Joining Tunga River near Gorvinakatte	latitude:14.014705 Longitude:75.674082		
						6	Nala Joining Tunga River near Kudli	latitude:13.993216 Longitude:75.6624		

Annexure 9: Water Quality of Polluted River Stretches during the year 2020-21

Sl. No.	River Name	River Stretch	Monitoring Station/Location	Water Quality Data											
				Jul-20				Aug-20				Sep-20			
				DO	BOD	FC	TC	DO	BOD	FC	TC	DO	BOD	FC	TC
1	ARKAVATHI	THIPPAGONDANA HALLI RESERVOIR TO KANAKAPURA TOWN	At D/S of Kanakapura	4.2	5	470	3500	5	6	480	3500	Results Awaited			
			T.G. Halli Reservoir	6.8	6	1200	9200	4.7	8	630	5400	Results Awaited			
2	LAKSHMANTIRTHA	HUNSUR TO KATTEMALAVADI	D/S of Hunsur Town	6.5	2.3	790	2400	6.8	2	390	1200	6.3	2	930	4000
			D/S of Kattemalavadi	6.2	2.5	940	2800	6.5	2.2	490	2400	6	2.3	910	3800
3	MALAPRABHA	KHANAPUR TO RAMDURG	At D/S of Aihole Town	6.7	2.85	1600	3200	5.7	2.5	1800	2500	5.2	0.78	900	1600
			W/A point to Hubli Dharwad at Saundatti.	7.6	1	280	900	7.0	0.8	500	1600	8.3	0.9	350	900
			At D/S of Khanapur Village	7.6	1.14	350	1600	7.1	1.3	500	900	8.9	0.78	500	900
			At Badami Bridge	6.8	2.9	1600	3200	7.6	2.8	1800	3200	6.1	0.78	900	1600
4	TUNGABHADRA	HARIHARA TO HARLAHALLI BRIDGE	At Honnali Bridge	7.3	2.1	…	…	7	2	…	…	6.4	2.0	--	--
			At Ullanur Bridge	7.4	3	350	1600	7.2	3	460	2100	7.3	2.5	-	
			At Haralahalli Bridge	7.2	2	…	…	6.9	2	…	…	6.6	2.3	--	--
			Confluence point of Tunga and Bhadra at Kudli	5.4	2.3	…	…	7.3	2.4	…	…	6.4	2.4	--	--
			D/S of HPF	6	2.9	…	…	6.2	3	…	…	6.3	3	--	--
			At Jack Well Point	6.2	2.6	…	…	6.2	2.6	…	…	6.4	2.4	--	--
			At Harihar Water Supply Intake point	6.5	3	…	…	6.8	2.7	…	…	6	2.8	--	--
5	BHADRA	HOLEHUNNUR TO BHADRAVATHI	Near Holehonnur	5.5	2.2	…	…	7.1	2.5	…	…	5.1	2.9	--	--
			D/S of Bhadravathi City	5.6	3.2	…	…	6.7	2.8	…	…	5.5	2.8	--	--
6	CAUVERY	RANGANATHITTU TO SATHIGALA BRIDGE	At D/S of Road Bridge at Shrirangapatna	7.2	1.3	270	1100	7	1.4	380	1500	6.8	1.6	330	1400
			At Ranganathittu	6.8	1.6	340	1300	7.0	1.5	200	1400	6.9	1.8	270	1100
			At Satyagala Bridge	7.3	1.2	490	1300	7.4	1.1	490	1300	7.1	1.4	380	1200
7	KABINI	NANJANGUD TO HEJJIGE	At Bathing Ghat, Nanjanagud	7	1.4	460	1400	7.3	1.2	340	1300	7	1.4	220	1100
			Water supply intake point to T. Narasipura	7.3	1.2	380	1200	7.50	1.20	130	840	7.5	1.1	93	700
8	KAGINA	SHAHABAD TO HONGUNTA	Kagina D/S of Sewage disposal point	7.5	3	940	3500	7.2	2	840	3500	7	2	1100	3500
			At Shahabad Bridge	7.6	3	460	2200	7	3	1100	4300	7.2	2	630	2800
9	KALI	HASAN MAAD (WEST COAST PAPER MILL) TO BOMMANAHALLI RESERVOIR	At D/S of West Coast Paper Mills	7.7	2.6	137	302	7.6	2.8	119	281	7.2	2.6	84	175

10	KRISHNA	YADURWADI TO TINTINI BRIDGE	At D/S of Devasagar Bridge	7	2	220	920	7.3	3	470	2200	7.2	2	280	1600
			At D/S of Narayana pura Dam	6.1	1.38	500	900	7.0	1.98	900	1600	6.5	0.78	500	1600
			At D/S of Ugarkhurd Barrage	7.8	1.5	500	900	6.9	1.5	500	900	7.0	0.8	500	900
			Ankali Bridge Along Chikkodi Kagwad Road	7.9	1.3	900	1600	7.1	1.3	900	1600	7.1	0.7	500	900
			D/S of Alamatti Dam	6.0	1.26	500	900	7.4	1.88	900	1600	6.4	0.66	500	1600
			AT Tintini Bridge	7.2	2	170	920	7.8	2	170	920	7.2	2	280	1600
11	SIMSHA	YEDIYUR TO HALAGUR	At D/S of Bridge Halagur	*	*	*	*	*	*	*	*	4.8	4	400	2800
			Near Yediyur on NH-47	6.6	4	940	9200	5.1	5	490	5400	Results Awaited			
			D/s Shimsha near Madduar town	*	*	*	*	*	*	*	*	6	2.4	400	2200
12	KRISHNA (Asangi Barrage)	ALONG ASANGI BARRAGE	Asangi Village	6.7	1.0	900	1600	6.3	1.6	500	900	6.7	1.0	900	1600
13	BHIMA	GHANAGAPUR TO YADGIR	At D/S of Bridge near Yadgir	7.8	2	490	2200	7.3	3	490	2400	7.3	3	1100	4300
			At D/S of Road Bridge Ghanagapur Village	-	3	700	2800	7	2.5	790	3500	7.4	2	630	2800
			At Ferozabad	7.8	2.5	350	1600	7.2	2.5	460	2200	7.2	3	700	3500
			Bhima River Confluence of Jewagri Town Sewage Disposal point	7.8	2.5	790	2800	7	2.5	1200	4300	7.4	3	940	3500
14	KUMARADHARA	ALONG UPPINANGADI	U/S Uppinagady Town Before Confluence with river Nethravathi	7.1	2	<2	2	7.3	2	<2	2	7.3	2	<1600	<1600
15	NETRAVATHI	UPPINANGADI TO MANGALURU	Thumbe water supply station to Mangaluru city	7.2	2	<2	<2	7.3	2	<2	<2	7.2	2	<1600	<1600
			U/s of Uppinangady town	5.9	2	<2	2	6.1	3	<2	<2	7.1	3	350	350
16	TUNGA	SHIVAMOGGA TO KUDLI	At D/S of Shimoga	5.6	3.2	…	…	6.7	2.8	…	…	5.4	2.6	--	--
17	YAGACHI	ALONG YAGACHI , HASSAN	Yagachi River Near Pumping Station, Hassan City	6.5	2	330	2200	6.6	2	340	2200	6.8	1.8	320	2100

Note:1) ***** - No Water in the River/ Reservior/ Samples are not Collected.

2) **—** : Data not submitted

3) **DO-** Dissolved Oxygen in mg/L, **BOD**-Biochemical Oxygen Demand in mg/L,**FC**- Fecal Coliforms in MPN/100ml, **TC-** Total Coliforms in MPN/100ml**.**

4)

Class of Water	Designated-Best-Use
A	Drinking water source without conventional treatment

B	Out door bathing (organized)
C	Drinking Water Source with conventional treatment
D	Propagation of wild life, fisheries
E	Irrigation, Industrial cooling, Controlled Waste

Annexure 10: BRIEF NOTE ON MINING IN KARNATAKA

Mining is one of the main industrial activities in Karnataka. The major mining is Iron and Limestone. The Iron Ore mining is mainly confined to Bellary, Chitradurga & Tumkur Districts and the Limestone mining is located in the Districts of Kalaburagi, Bagalkot, Belgavi & Vijayapura.

In 1994, the Government of India notified the Environmental Impact Assessment Notification under the Environment (Protection) Act, 1986. This Notification made it mandatory for certain projects including mines to obtain prior Environmental Clearance (EC) from Ministry of Environment & Forests (MoEF), Government of India (GOI). Mining projects more than 5 Hectares in area were covered under this Notification.

As per the Environmental Impact Assessment Notification, 2016 & its amendment dated: 07.10.2014 mining are broadly categorized in to Category A and Category B. If the mining lease area is more than 50 hectares is considered as Category 'A' mines, which are required to obtain prior environmental clearance from the Central Government in the Ministry of Environment and Forests (MoEF) and whereas, if the mining lease area is less than 50 hectares is considered as Category 'B' mines, which are required to obtain prior environmental clearance from State level Environment Impact Assessment Authority (SEIAA).

The Hon'ble Supreme Court by its order dated: 09.05.2002 has constituted the Central Empowered Committee (CEC) with the approval of the Ministry of Environment and Forests to avoid illegal mining in the State. In 2012, the Hon'ble Supreme Court directed to re-open the Category 'A' & Category 'B' mining activities based on the Reclamation & Rehabilitation (R & R) Plan verified and approved by CEC.

The Board is issuing Consent for Establishment/Expansion of mining units more than 5 Hectares area, only after issue of Environment Clearance from the Ministry of Environment & Forests, Government of India, or State Level Environment Impact Assessment Authority, Karnataka. Further, in case of mining units with area less than 5 Hectares, the Environment Clearance from State Environment Clearance Committee, Department of Ecology & Environment, Government of Karnataka, is insisted before issue of Consent for Operation. Further, the Board is compulsorily insisting the Forest Clearance from the Government in case the mine lease area falls in forest land.