

Details of STPs under IMPACT Kerala Ltd – Progress as on 12-5-2023

<i>Approved Projects</i>					
1	FSTP at Cherthala Municipality, Alappuzha	250 KLD FSTP	Site handed over on 19.01.2023. Civil Work ongoing at site. Hon. High Court has dismissed the WPCs filed by Kinder and KVM hospitals. Now an appeal filed with Govt by Kinder womens hospital and KVM hospital (6802750/22) -Pending at LSGD WM section(WM1/203/2021-LSGD). Sri. Saji Kuriakose has filed an appeal at Water Appellate Authority dated 11.01.2023 and is pending. Sr. Celestine Francis filed a writ petition WP(C)6985/23 dated 25.02.2023 in Highcourtand is pending.	DPR approved by RKI.	
2	STP at Ottappalam Municipality, Palakkad District	1.50MLD STP	Vide G.O(Rt)No.165/2023/LSGD dtd 19.01.2023 tender acceptance & Revised Administrative Sanction from Govt has been received. Tender file uploaded to KIIFB pfms on 21.01.2023 and KIIFB approved the same. Selection notice issued. Agreement executed with contractor on 22-3-23. Contractor has to submit vetted design and drawings within 2 months.	DPR approved by KIIFB.	
3	FSTP at Varkala Municipality, Thiruvananthapuram	50 KLD FSTP	RKI issued AS on 28/2/2022. Structural Scrutiny entrusted to CET on 17.05.2022. Fire NoC applied on 30.06.2022. Objection raised during site inspection. PCB NOC received on 21.05.22.Structural scrutiny received on 08.02.2023. Fire NOC issue sorted out as letter received from Fire dept that NOC not needed. Formal approval accordedby technical committee for proceeding with tendering. Tender documents being modified. To be tendered.	DPR approved by RKI.	
4	STPs at Mayyanad GP, Kollam	590KLD STP	RKI issued AS on 4/3/2022. GP applied for PCB NOC, Fire NOC and Structural scrutiny. PCB NOC received on 29.7.22. Structural scrutiny received. Fire NoC applied on 01.07.2022,fee paid. Objection raised during site inspection citing insufficient access width for existing Tsunami flat location. Letter sent to ACS on 25.11.2022 for Govt.intervention. Formal approval given by Technical committee for tendering.Fire NOC issue sorted out as letter received from Fire dept that NOC not needed. Tender published.	DPR approved by RKI.	

5	STP at Kunnamkulam Municipality, Thrissur	1.00MLD STP	Letter received from the Municipality on 28.12.2022 with Council resolution that Municipality is not going ahead with the Project. Letter forwarded to CEO, KIIFB and ACS, LSGD regarding cancellation of the project on 11.01.2023. ACS directed Municipality to find place for LWM projects.	DPR approved by KIIFB	
<i>DPR Under Preparation Projects</i>					
1	STP at Vadakara Municipality, Kozhikkode	0.5 MLD Sewage TP 20KLD FSTP	DPR appraisal ongoing in KIIFB. Present council decided to drop FSTP and include another STP at the proposed FSTP site. Consultant modifying DPR as per that. Land issue. Unnotified land conversion required at Narayananagaram and ownership details not received for Thazhangadi. Reminder to Municipality given. Not yet submitted.	DPR modification ongoing.	
2	STP at Wadakkanchery Municipality, Thrissur	1.00MLD STP	Initially planned at Puramboke land. NOC to be obtained from district collector. Now municipality planning for decentralized plants at different locations which needs to be finalized in consultation with PCB. Municipality to submit DPR accordingly. Not yet submitted.	DPR to be prepared.	-

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)

Status of Sewage & Septage Plants Being Implemented Under AMRUT in Kerala (as on 30.04.2023)

Details of Completed ETPs / STP in the State

No.	City / Town	STP Location	Status	Installed Capacity	Utilization Capacity	Process
1	Thiruvananthapuram	Medical College, Thiruvananthapuram (AMRUT-1.0)	Commissioned	5 MLD	3 MLD	MBBR
2	Kochi	Elamkulam (AMRUT-1.0)	Works physically completed & commissioned	5 MLD	3 MLD	MBBR

Details of Under Construction ETPs / STPs in the State

No.	Location	Capacity of the plant in MLD	Physical Progress in%	Status of I & D or House Sewer Connections	Incremental Progress	Completion Timeline
1	STP at Kureepuzha-Phase I & II, Kollam (AMRUT-1.0)	12	80%	21358 house sewer connections are envisaged as per the new sewer work added (balance of KSUDP).	* Works are in progress.	31.07.2023
2&3	STPs at Medical College with Septage Treatment, Kozhikode (AMRUT-1.0)	3 (2 MLD with 100 KLD septage treatment & 1MLD)	63%	Only the buildings inside the Medical College campus will be connected.	*Works are in progress.	31.07.2023
4	Decentralized Sewerage Network with STP in Old Kannur Municipal area, Kannur (AMRUT-1.0)	1	90%	1500sewer connections are envisaged.	* Works are in progress.	31.05.2023
5	STP at General Hospital, Alappuzha (AMRUT-1.0)	0.24	60%	Only the buildings in the General Hospital campus will be connected.	* Works are in progress.	31.07.2023
6	STP at General Hospital, Thrissur (AMRUT-1.0)	0.36	10%	Only the buildings in the General Hospital campus will be connected.	* Works are in progress.	31.12.2023

Details of Proposed ETPs/ STPs in the State

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Incremental Progress	Likely Date of Completion
1	Decentralized Sewerage System (STP at Ambedkar Colony) –Div-16, Edakochi South, Kochi (AMRUT-1.0)	1.1	<p>Awarded but not started:</p> <ul style="list-style-type: none"> * There is public protest against the project. Public stopped the starting of soil investigation work on 28/04/22. 	<ul style="list-style-type: none"> * The ULB is trying to negate the public protest. * The ULB decided to continue the project in AMRUT-1.0 as the mission period has been extended up to 31.03.2024. 	31.03.2024
2	STP at Thottumadi Colony, Alappuzha (AMRUT-1.0)	0.05	<p>Tendered but not awarded:</p> <ul style="list-style-type: none"> * Bid received in the 4th tender to be finalized. * The ULB's Technical Committee held on 30/06/22 decided to recommend the lowest bid to the Technical Committee for Sewerage works for approval of the bid along with revised TS & for checking the reliability of O & M quoted by the bidder. * The Technical Committee for SEW & SEP works held on 26/08/22 approved the technology & directed the ULB to obtain the Detailed Engineering Report (DER) from the bidder for approval of tender. The DER was submitted by the bidder on 22/11/22. The CE, LSGD office held a meeting on 21/12/22 with the bidder & ULB officials. * The detailed engineering report submitted by the bidder was discussed in the Technical Committee held on 21/01/23 & the Committee directed the ULB to get the design & drawings vetted by an IIT or NIT. The ULB submitted the design & drawings to IIT Palakkad for vetting on 07/02/23. 	<ul style="list-style-type: none"> * The design & drawings are being vetted by the IIT Palakkad. 	31.03.2024
3 4	Mobile Septage Units- 2 nos, Alappuzha (AMRUT-1.0)	0.02 (0.01 *2 nos.)	<p>Tendered but not awarded:</p> <ul style="list-style-type: none"> * Work tendered 5 times but no bids received. * ULB's Technical Committee held on 30/06/22 decided to request the Technical Committee for Sewerage works to relax the payment terms so that bidder participation can be increased. * The Technical Committee for SEW & SEP works held on 26/08/22 decided to call for quotations without changing the payment terms. * Quotations were called for by the ULB with 15/11/22 as the last date of submission. One quotation received. In this regard a meeting was held by the CE, LSGD on 21/12/22 with the bidder and the ULB officials. * The detailed engineering report submitted by the bidder was discussed in the Technical Committee held on 21/01/23 & the Committee directed the ULB to get the design & drawings vetted by an IIT or NIT. The ULB submitted the design & drawings to IIT 	<ul style="list-style-type: none"> * Details sought by the IIT are to be provided by the bidder. * In this regard a meeting is planned to be held by the ULB with the officials of IIT & bidder. 	30.09.2023

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Incremental Progress	Likely Date of Completion
			Palakkad for vetting on 13/02/23.		
5	FSTP at Yakkara, Palakkad Municipality (AMRUT-1.0)	0.1	<p>To be retendered:</p> <ul style="list-style-type: none"> * The Cabinet Meeting of the Govt. held on 02/02/22 decided to allow 70 Cents of land inside Palakkad Medical College Campus for the construction of the septage plant.Govt. Order, dated 04/03/22, was issued by Revenue Dept. allocating 70 Cents of land for the work. * The Contractor informed vide letter dated 31/03/22 that they are not willing to go ahead with the work due to financial crisis & increase in material & labour cost due to Covid pandemic. * Counter affidavit was filed by the ULB regarding the petitions (WPC-14660/ 2022 & WPC-15105/ 2022) filed in the Hon' High Court against the construction of the Septage Plant. * The Council held on 12/07/22 decided to take further action based on the judgment of the Hon' High Court. * The judgment of the Hon' High Court disposing the petitions filed by the protestors in favour of the ULB was obtained on 15/11/22. * The Core Committee of the ULB held on 26/11/22 decided to select new consultant for preparation of revised DPR and the Council held on 16/12/22 gave consent for the same. * The ULB had approached IRTC for preparation of DPR but the response given by IRTC was not satisfactory for the ULB. Hence the Core Committee held on 06/01/23 decided to approach CDD for preparation of the DPR. The Core Committee held on 01.02.2023 & the Council held on 25.02.2023 gave approval to transfer the project to AMRUT-2.0. The Council held on 11.03.2023 gave consent for the proposal (40 KLD) given by M/s. CDD. 	* Agenda is to be placed in the next SLTC for modifying the proposal from 100 KLD to 40 KLD and for shifting the project from AMRUT-1.0 to AMRUT-2.0.	31.03.2024
6	FSTP at Chellora, Kannur Corporation (AMRUT-1.0)	0.1	<p>Awarded but not started:</p> <ul style="list-style-type: none"> * Legacy waste dumped at the proposed location is to be removed for starting physical works.Legacy waste removal work from the proposed site is nearing completion. * The Council held on 26/04/22 decided to relieve the Contractor from the Septage Plant work as they were not willing to take up the works. * Septage Plant work is to be retendered after revision of estimate as per DSR-2018. Recast estimate was sent from the ULB to CE, LSGD office on 04/08/22 for approval. * The Technical Committee meeting held on 17/10/22 decided to tender the work with technology kept as open and the Council held on 28/12/22 gave consent for the same. 	* Agreement has been signed with M/s. IRTC to execute the project in DBOT mode. DPR to be submitted by M/s. IRTC.	31.03.2024

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Incremental Progress	Likely Date of Completion
			<p>* Tender was floated by the ULB on 19/01/23 with 02/02/23 as the last date of bid submission & 04/02/23 as the date of opening. Two bids received.</p> <p>* The ULB has selected the technical bid submitted by M/s. IRTC.</p>		
7	FSTP at Ramavarmapuram, Thrissur (AMRUT-1.0)	0.1	<p>Tendered but not awarded:</p> <p>* The Contractor had requested the ULB to relieve them from the project citing reasons like financial crisis and increase in material & labour cost due to Covid pandemic.</p> <p>* The Council held on 29/01/22 decided to retender the work (TSP limited competitive tender).</p> <p>* The estimate recast as per DSR-2018 is to be approved. The corrected estimate & details were submitted to CE, LSGD office on 20/08/22.</p> <p>* The Technical Committee held on 17/10/22 directed to tender the work with the technology kept as open.</p> <p>* Tender was floated by the ULB on 24/12/22 with 09/01/23 as the last date of bid submission & 11/01/23 as the date of bid opening. Last date of bid submission & date of opening were extended till 13/01/23 & 16/01/23 respectively as per the request of a prospective bidder. Only 1 bid was received, hence, retendered (2nd) on 18/01/23 with 25/01/23 as last date & 28/01/23 as date of opening. Again, only one bid was received. The ULB invited quotations on 09/02/23 with 15/02/23 as the last date of submission. Three quotations were received.</p> <p>* The ULB has selected the technical bid submitted by M/s. SEUF.</p>	<p>* Vetted design & technology details are awaited from M/s. SEUF for placing in the Technical Committee for approval.</p>	31.03.2024
8	Sewerage System in Zone A, Package A, Avikkal Thodu, Kozhikode (AMRUT-2.0)	7	<p>Started but stalled:</p> <p>* There is public protest against the construction of STP at the location.</p> <p>* Site clearance work was stopped by the public on 31/01/22.</p> <p>* The work was restarted on 23/06/22 with Police protection amidst huge protest. Soil testing, site clearance & fencing works completed.</p> <p>* The Contractor has requested for price escalation.</p> <p>* Soil test report was obtained on 22/07/22. Design changes are to be finalized. The revised design was given to Govt. Engg. College, Thrissur for vetting. Corrections were made and resubmitted on 27/03/23.</p> <p>* The Munsiff Court issued interim judgment (OS No.459/ 2022) in favour of the petitioner. Hence works can be started only after resolving the court case.</p> <p>* 32nd SHPSC approved the ULB's request to</p>	<p>* The vetted design is awaited from the Govt. Engg. College, Thrissur.</p> <p>* Next hearing on the case (OS No.459/ 2022) is on 09.06.2023.</p> <p>* Agreement for time extension to be signed by the contractor.</p>	30.06.2024

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Incremental Progress	Likely Date of Completion
			transfer the project to AMRUT-2.0.		
9	Sewerage system in Zone A, Package B, Kothi, Kozhikode (AMRUT-2.0)	6	<p>Started but stalled:</p> <ul style="list-style-type: none"> * There is public protest against the construction of STP at the location. * Fencing works started on 27/04/22, with Police protection, had to be stopped due to public protest. * The Contractor has requested for price escalation. * The work was restarted on 23/11/22 with Police protection but stopped as the construction materials brought to site were spoiled by the protestors. * The judgment of the Hon'ble High Court disposing the petition (WPC No. 8986/ 2022) filed against the project in favour of the ULB was obtained on 14/11/22 but appeal was filed by the petitioners against the judgment. The court dismissed the appeal and adjudicated that the petitioner shall approach the Hon'ble NGT regarding the appeal. In this regard a caveat has been filed by the ULB against the petitioner in the Hon'ble NGT. * The Munsiff Court disposed the case, OS No. 450/ 2022, in favour of the ULB. * The Hon'ble High Court disposed the case, WPC No. 40164/ 2022, in favour of the ULB. 	<ul style="list-style-type: none"> * Hearing on the case OS No. 217/ 2022 is in progress in the Munsiff Court. * Agreement for time extension to be signed by the contractor. 	30.06.2024
10	Decentralized Sewerage Scheme (STP at Kokkala), Thrissur Corporation (AMRUT-2.0)	2.5	<p>To be retendered:</p> <ul style="list-style-type: none"> * To be retendered after obtaining permission from the Govt. for constructing the STP at the proposed location (Paddy Land). * Application was submitted to Railways on 25/05/22. Joint site inspection was done on 28/09/22 by the Railways & ULB officials. The Railways rejected the ULB's application. Hence, new location to be selected by the ULB. A meeting was held by the ULB with Railway officials on 10/02/23 regarding the selection of a new location for laying sewer pipeline across the railway track. * The 30th SHPSC held on 05/07/22 approved the revision of AS from Rs.53.4 Cr. to Rs.64.2Cr. * The committee constituted by the LSGD, vide Govt. Order dated 08/08/22, to reassess the nature of the proposed land held meeting with ULB, Agriculture Dept. & Revenue Dept. officials on 20/08/22 and submitted the report to the Chief Secretary on 13/09/22. * The Agriculture Dept. sought clarifications from the Environment Dept. regarding category of the proposed land vide letter dated 18/10/22. The Environment Dept. forwarded the queries to the State Wetland Authority Kerala (SWAK) vide letter dated 04/11/22 for furnishing a 	*Clearance of the LLMC for changing the category of the land is to be obtained.	31.03.2024

<i>No.</i>	<i>Location</i>	<i>Capacity of the STP proposed in MLD</i>	<i>Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)</i>	<i>Incremental Progress</i>	<i>Likely Date of Completion</i>
			<p>report.The report submitted by SWAK was discussed in the meeting held by the Chief Secretary on 21/12/22 and the nature of the proposed land was clarified as paddy land. The ULB was directed to submit request to the Agriculture Dept. for changing the category of the land for construction of the STP.</p> <p>* The 32nd SHPSC held on 23/01/23 approved the ULB's request to cancel the project from AMRUT-1.0 & take up the same under AMRUT-2.0.</p> <p>* The ULB submitted the request for changing the category of the land to the Agriculture Dept. on 07/02/23. The LLMC meetings were held on 20/02/23 & 21/03/23.</p>		
11	STP with septage co-treatment at Elamkulam (AMRUT-2.0)	5	* The 5th SHPSC held on 02/03/23 approved the issuance of AS and G.O dated 25/03/23 was issued.	TS to be issued.	31.12.2024

Analysis report of polluted river stretches-R Periyar, R- Chithrapuzha,R-Kadambrayar, R-Chalakudy For the month of MARCH 2023

STNCode	Sampling Date	Sampling Time	StnName	TypeWaterBody	NameOfWaterBody	RiverBasin
17	11.04.2023	10:00	Periyar at Eloor	River	Periyar River	
1338	13.04.2023	9:30	Periyar at SDP Aluva	River	Periyar River	
2334	05.04.2023	10:30	Periyar at Pathalam	River	Periyar River	
2335	05.04.2024	12:00	Periyar at Kalamassery	River	Periyar River	
3468	13.04.2023	9:55	Periyar at KWA Aluva	River	Periyar River	
2337	No Sampling		Kadambrayar At Brahmapuram	River	Kadambrayar River	
2338	01.04.2023	10:00	Kadambrayar At Manackakadavu	River	Kadambrayar River	
1573	01.04.2024	11:10	Chithrapuzha At Irumpanam	River	Chithrapuzha River	
1154	13.04.2023	12:45	Chalakudy at Pulikkakadavu	River	Chalakudy River	

Sl. No.	Parameters	Values									
		Station Code									
		17	1338	2334	2335	3468	2337	2338	1573	1154	
1	Temperature, °C	28	27	29	29	27	N o S A M P L I N G	28	28	29	
2	Dissolved Oxygen, mg/l	4	6.4	6.8	4.3	6.4		1.2	3.5	6.5	
3	pH	7.7	8.5	9.6	8	8.5		6.4	7.6	8.5	
4	Conductivity, µmhos/cm	12270	49	16380	151	54		105	1833	211	
5	BOD, mg/l	2.3	2.4	2.8	2.5	1.2		3.4	3	2.5	
6	Nitrate-N, mg/l	0.23	0	0.11	0.27	0		0	2.69	0.32	
7	Turbidity, NTU	1.8	2.8	0.7	1.2	3		9.8	6.9	2.8	
8	Total Alkalinity, as CaCO ₃	40	18	45	22	15		22	36	20	
9	Chloride, mg/l	4000	4.8	4600	35	7		15	500	48	
10	COD, mg/l	6.4	5.6	8.8	7.2	4		6.4	9.6	6.4	
11	TKN, mg/l	0.2	0.14	0.3	0.08	0.11		0.12	1.25	0.86	
12	Ammoniacal-N, mg/l	0.06	0.05	0.01	0.004	0.05		0.05	0.01	0.52	
13	Total Hardness, as CaCO ₃ mg/l	1200	18	2000	25	17		24	173	48	
14	Calcium, as CaCO ₃ mg/l	1100	16	600	18	13		16	128	32	
15	Magnesium as CaCO ₃ , mg/l	100	2	1400	7	4		8	45	16	
16	Sulphate, mg/l	500	0	690	0	0		4.7	27.8	0	
17	Sodium, mg/l	2205	2.51	2850	19.6	3.85		8.86	265.3	25	
18	Total Dissolved Solids, mg/l	7510	28	9540	86	30		60	1025	116	
19	Total Fixed Solids, mg/l	5200	20	7500	60	22		45	800	90	
20	Total Suspended Solids, mg/l	24	12	29	16	10		14	20	18	
21	Phosphate, mg/l	0	0.02	0.47	0	0		0	2.95	0	
22	Boron, mg/l	N.A	NA	NA	NA	NA		NA	NA	NA	
23	Potassium, mg/l	21	1.5	126	2.11	0.16		0.01	9.26	0.06	
24	Fluoride, mg/l	0.6	0.4	0.2	0.2	0.4		0.4	0.6	0.4	
25	Total Coliform, MPN/100 ml	4300	2500	840	340	5800		3400	7000	2500	
26	Feecal Coliform, MPN/100 ml	1700	1000	200	110	1500		1500	3100	340	

27	Feacal Streptococci, MPN/100ml	140	48	220	70	250	430	540	14
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