



NAMAMI GANGA

National Mission for Clean Ganga

Review by Hon'ble Minister

Ministry of Jal Shakti

Department of Water Resources, River Development and Ganga Rejuvenation

Government of India

20th January, 2020

Achievements in last 7 months (Jun'19 to Dec'19)

- NGC – National Ganga Council meeting held under the chairmanship of Hon'ble Prime Minister at Kanpur on 14th December 2019.



New Sanctioned Projects

16

Awarded Projects

18

Completed Projects

15

+13
(Mar 20)

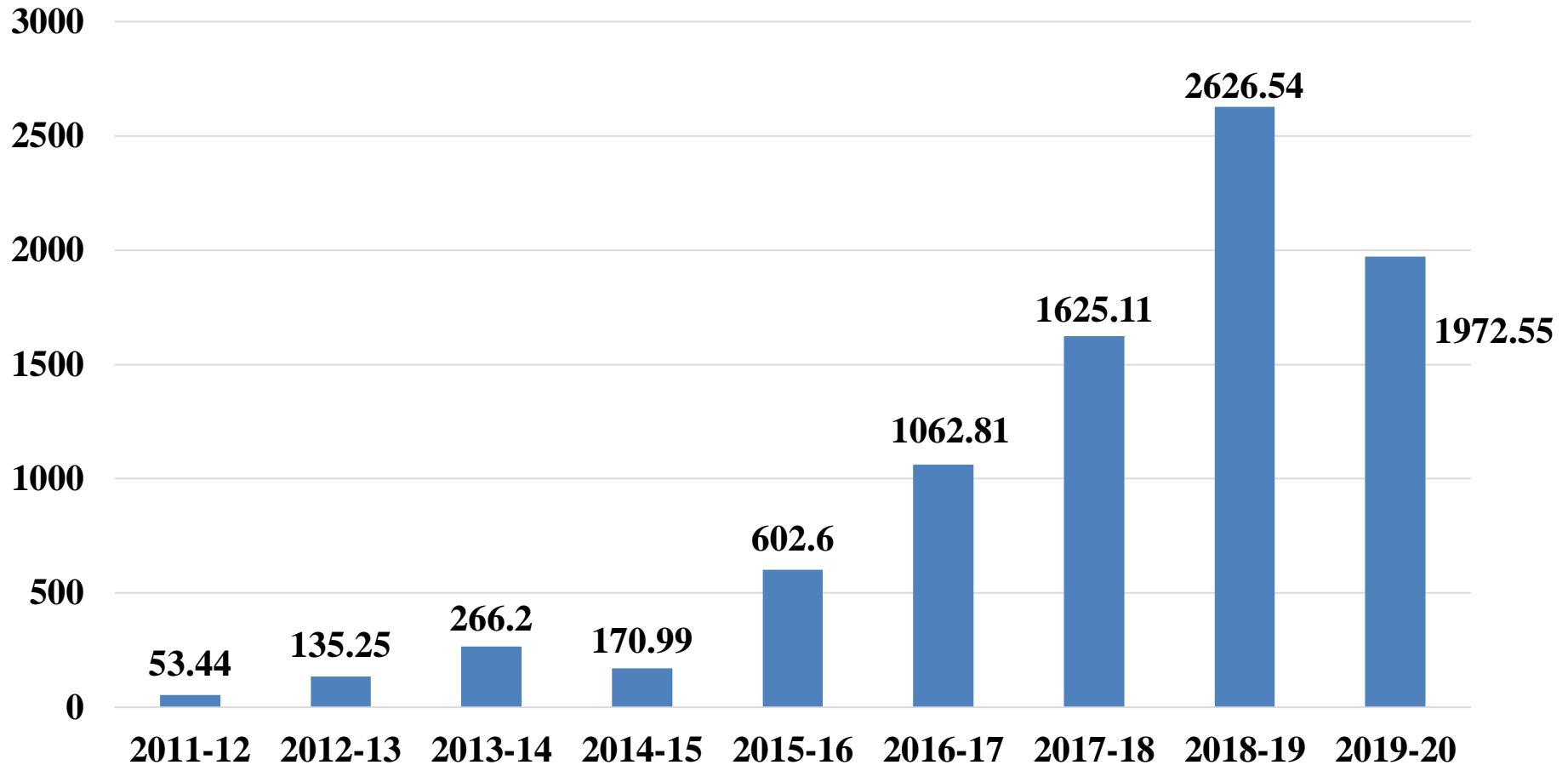
Ganga Amantran Yatra

Achievements in last 7 months (Jun'19 to Dec'19)

Projects undertaken	Nos
Sanctioned Projects in Last 7 months (Jun'19 to Dec'19)	
Sewerage Infrastructure Projects	2
Ghats & Crematoria	2
Industrial Pollution/ Ganga Knowledge Center/ Afforestation / Ecological Task Force/ Research/ Bioremediation	12
Total	16
Awarded Projects in Last 7 months (Jun'19 to Dec'19)	
Sewerage Infrastructure Projects	18
Completed Projects in Last 7 months (Jun'19 to Dec'19)	
Sewerage Infrastructure Projects	4
Ghats & Crematoria	9
Composite Ecological Task Force	2
Total	15

Financial Progress of NMCG

Expenditure (₹ in Crore)



Namami Gange Sewerage Projects in Uttarakhand

Projects : **34** (Cost Rs. **1151.18 Cr**)

Stage of Projects	As on 31.10.19		As on 15.01.2020	
	Main Stem (32)	Tributaries (2)	Main Stem (32)	Tributaries (2)
<u>Completed</u>	23	-	23	-
<u>Work in Progress</u>	8	1	9	1
<u>Tender under evaluation</u>	-	-	-	1
<u>Under Tendering</u>	1	1	-	-
<u>Tender to be floated</u>	-	-	-	-

➤ **Projects likely to be completed by Feb'20**

- i. Haridwar (Jagjeetpur 68 MLD),
- ii. Muni Ki Reti,
- iii. Rudraprayag,
- iv. Karnaprayag, and
- v. Gopeshwar

➤ **Rishikesh likely to be completed by Mar'20**

Completed Projects

- ❖ **No. of Sewerage Projects – 23**
- ❖ **Sanctioned Cost – Rs. 359 Cr.**
- ❖ **Awarded Cost – Rs. 265 Cr.**
- ❖ **Expenditure – Rs. 251.54 Cr.**
- ❖ **Treatment Capacity Created – 25 MLD**
- ❖ **Sewer Line Laid – 130 Km**

Issues:

- UKPJN & UJS have to appoint a single operator for upgradation part & existing STPs at Srinagar, Uttarkashi & Swargashram.

Ongoing Projects

- ❖ **No. of Sewerage Projects – 10 (09)**
- ❖ **Sanctioned Cost – Rs. 728.4 Cr. (720.54 Cr)**
- ❖ **Awarded Cost – Rs. 556 Cr. (549 Cr)**
- ❖ **Expenditure – Rs. 205.83 Cr. (164.93 Cr)**
- ❖ **Treatment Capacity – 139.4 MLD (139.05)**
- ❖ **Sewer Line – 25.16 Km**

Note: *The status of projects as on 30.10.19 is indicated in brackets in blue colour*

ATR on decisions of meeting on 30.10.2019 (Uttarakhand)

S.No	Directions	Action Taken
1	Complete STPs at Haridwar 82 MLD (14 MLD and 68 MLD & 14 MLD)	<ul style="list-style-type: none"> 4 MLD STP at Sarai completed/ inaugurated on 5th Dec 2019. Trial run started at 68 MLD STP at Jagjeetpur .
2	Expedite STP works at – Muni Ki Reti (5 MLD + 7.5 MLD) and Rishikesh STP (26 MLD)	<ul style="list-style-type: none"> 5 MLD STP at Chor Pani completed 7.5MLD STP at Dhalwal will be completed by February -2020 26 MLD STP Rishikesh will be completed by March-2020
3	<p>1.State to resolve the pending issue of land for STP-2 at <i>Joshimath</i>.</p> <p>2. The pending works for STPs at <i>Rudraprayag, Karanprayag</i> and <i>Gopeshwar</i> to be completed within stipulated time.</p>	<p>1. Issue resolved. to be completed by June'20</p> <p>2. Rudraprayag: 5/6 completed. 1 to be completed by Feb'20</p> <p>Karnprayag: All STPs completed.</p> <p>Gopeshwar: 4/5 completed. 1 to be completed by Feb'20</p>
4	Complete all the Sewerage projects till Haridwar Stretch by end of Mar'20.	All Projects will be completed by Mar'20/ Jun'20 (Joshimath)

Key Issues:

- **68 MLD STP at Jagjeetpur, Haridwar** ready for inauguration
 - **26 MLD STP at Rishikesh** and **12.5 MLD STP at Muni-ki-Reti** to be readied for **inauguration by March 2020**

 - **Expedite Land Allotment** at Ramnagar STP site;
 - I&D and STP works for Rispana and Bindal rivers in Dehradun to be awarded by Jan 2020
 - Work Awarded for I & D and STP at Srikot – Gangnali.
 - Work of STP Badrinath completed;
- Will be commissioned in May'20 after temple opening

Status of Sewerage Infrastructure Projects in UK -Ongoing

1. Haridwar

Sewage Treatment Plant (STP) at Jagjeetpur (68MLD) and Sarai (14 MLD):

Name of Contractor: M/s HNB Engineers Pvt Ltd, Pune

Date of Sanction	Date of Award	Sanctioned Cost(Cr.)	Awarded Cost(Cr.)	STP capacity (MLD)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Likely Date of Completion
16.03.2017	03.08.2018	Capex- 135.27 Opex-138.10	171.53*	82.00	97 (92)	53.19	Feb-2020

Note: The matter in brackets is status reported as on 30.10.19 is shown in blue & italics

Status:

Jagjeetpur – 68 MLD STP

6 Basins completed. Trial testing in progress. *(4 SBR basins completed.)* Likely completion Feb'20.

Sarai – 14 MLD STP: Completed. Inaugurated on 05.12.2019. *(Completed in June)*

Flow- *Peak (16 MLD) & Avg (12 MLD)*

2. Rishikesh

Interception and Diversion with 26 MLD STP :

Name of Contractor: M/s. Gannon Dunkerley - EMIT JV

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)	Awarded Cost (Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
16.03.2017	04.05.2018	Capex-100.90 Opex-57.10	126.37	26	-	75 (58)	49.63 (38.65)	Mar - 2020

Status of Sewerage Infrastructure Projects in UK-Ongoing

3. Muni ki Reti

I&D and STP of 12.5 (5MLD at Chorpani and 7.5MLD at Dhalwala):

Name of Contractor: R.K Engineers Sales Ltd., Oasis EPS, Krishna – JV.

Date of sanction	Date of Award	Sanctioned cost (Cr.)	Awarded cost (Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total expenditure (Cr.)	Likely Date of completion
29.03.17	16.01.18	Capex- 43.33 Opex - 37.12	67.02	12.50	3.50	86 (76)	27.82 (25.09)	Feb - 2020

Status:

- 5 MLD (Chorpani) STP is completed. Under trial testing. (*Trial run with fresh water completed.*)
- 7.5 MLD (Dhalwala) STP is under progress. Work to be expedited to complete by Feb'20.

Sewerage Projects Under Tendering

Sl No.	Name of Project	Date of AA&ES	Sanctioned Cost (Rs. In Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Likely date of Award	Remark
1	I&D works for Rispana River and Bindal River in Dehradun, Uttarakhand	13-Sep-18	63.75	0	30.88	Jan-20	Financial bid opened – to be awarded soon.

- Revised sanctioned issued.



Projects on Tributaries

Namami Gange Projects in Uttar Pradesh

Projects : 50 (Cost ₹10,407Cr)

Stage of Projects	As on 30.10.19		As on 15.01.20	
	Main stem (32)	Tributaries (18)	Main stem (32)	Tributaries (18)
<u>Completed</u>	16	-	16	-
<u>Work in Progress</u>	13	09	13	10
<u>Tender under evaluation</u>	3	3		3
<u>Under Tendering</u>	0	6	3	5

Project likely to be completed by Mar'20.

- i. Bithoor,
- ii. Vrindavan,
- iii. Ramana STP (Varanasi),
- iv. OTS (Varanasi)
- v. Ghat pumping station (Varanasi)

Completed Projects

- ❖ **No. of Sewerage Projects – 16**
- ❖ **Sanctioned Cost – Rs.1,996 Cr.**
- ❖ **Expenditure – ₹1,523 Cr.**
- ❖ **Treatment Capacity Created – 275.5 MLD**
- ❖ **Sewer Line Laid – 1004 Km**

Ongoing Projects

- ❖ **No. of Sewerage Projects –23 (22)**
- ❖ **Sanctioned Cost – Rs 5,151 Cr (5,025 Cr)**
- ❖ **Expenditure – Rs 752 Cr (576 Cr)**
- ❖ **Treatment Capacity – 1202 MLD (New + Rehab)**
- ❖ **Sewer Line – 684 Km**

Note: The status of projects as on 30.10.19 is indicated in brackets in blue colour

Key Achievements during June 19-Dec 19

- Completed -1 project:
Sewerage network of Prayagraj District A
- Targeted Completion by March 2020 : 5 projects :
Bithoor, Vrindavan, Ramana STP (Varanasi), OTS (Varanasi) , Ghat pumping station (Varanasi)
- Effective dates announced for HAM mode One City One Operator project – 2
Prayagraj: 16.Sept. 2019
Kanpur: 10.Oct. 2019
- Awarded:- 6 projects :
Kasganj, Jaunpur, Firozabad, Etawah, Sultanpur & Baghpat

Key Achievements during June 19-Dec 19

Land Issues Resolved: 9 project towns

1. Prayagraj – STP land issues at Naini & Jhusi, and 3 sewage pumping stations
2. Mathura – Jaisingpura SPS land
3. Ramnagar – MPS shifted to STP site
4. Shuklaganj – STP land shifted away from Ganga flood plains
5. Kanpur – CETP Land issue; Pankha Land use changed
6. Kasganj – STP Land
7. Firozabad – SPS Land
8. Muzaffarnagar – STP and SPS land
9. Baghpat – STP Land

Other Critical Issues resolved

1. **Narora STP:** Project sanctioned for effluent disposal pipeline – Work Completed.
2. **Project for relieving OTS at Varanasi** to avoid bypass of sewage from Rajghat outfall sanctioned (AMRUT) – tender under evaluation
3. **RP Ghat Pumping Station rehabilitation at Varanasi completed**
4. **OTS rehabilitation at Varanasi** –critical stretch, linked to RP ghat pumping station completed. Work on last stretch of 1.2 km in progress.
5. **Baniyapurwa STP** – made functional but clogged sewage lines being cleaned

Key Issues in UP

- **Land allotment** at Agra, Pandit Deen Dayal Upadhyay Nagar, Bareilly and Shuklaganj.
- Permission from irrigation department for crossing of rising main from Gokul Barrage at Mathura;
- **Under tendering projects-** Mirzapur, Ghazipur, Farukhabad, Moradabad, Agra, Meerut, Bareilly & Lucknow need to be expedited.
- Complete **house service connections in mission mode**

Status of Sewerage Projects in UP -- Ongoing

1. Sewerage works in Sewerage District I of Kanpur (Executing Agency-UPJN)

M/s. Srishti Infrastructure Development Co.

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	New Sewerage Network & Rehabilitation (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
		Capex	Opex			Dec 2019		
18-10-2016	17.08.2017	Capex	419.01	401.33	401.50	68 (60)	231.97 (210.76)	Aug - 2020
10.12.2019		Opex	11.48	11.48				

- Trunk sewer lining & desilting works completed on 21. Nov. 2019
(1.8/ 2.1 km completed)
- Jajmau STP (130 MLD) – getting 125 MLD wastewater. *(0 MLD)*
- Sewer line of 82.5 km/102 km completed.
- SPS at Shivan tannery and Wazidpur – 85% completed &
L.S. at Budhiya Ghat – 50% completed.
- Revised Cost estimate approved. *(Revised estimate under approval)*

Status of Sewerage Projects in UP-Ongoing - HAM

2. Rehab. of Existing STP, SPS, & New STP at Pankha, Kanpur; I&D works for Shuklaganj; & Unnao

Effective date – 11.10.2019

M/s Shapoorji Pallonji Co. Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)		STP Capacity (475 MLD)		Sewer Network (Km)	Physical Progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
		Capex	Opex	Capex	Opex	New	Rehab				
12.03.18	21.12.18	Capex	323.17	255.5	New	50	19.95	2 (0)	-	Sept-2021	
		Opex	811.44	542.65	Rehab	130					
					O&M	295					

Sajari & Bingawan STP handed over to concessionaire

Boundary Wall construction at Pankha and Unnao STP, & Excavation of SBR basin at Pankha is in progress.

Issues at Kanpur –

- 43 MLD STP at Jajmau – Under repair by State, yet to be handed over to concessionaire. Defect rectification under progress and expected to be handed over by Jan'2020- to be closely monitored.
- Baniyapurva (15 MLD) STP completed but not functional due to choking of sewer lines. Work under progress, expected to be completed by 31.03.2020.

Status of Sewerage Projects in UP -Ongoing - HAM

3. Interception, Diversion & Treatment Works for Naini Dist.G), Phaphamau (Dist. F) & Jhunsi Area &

4. Rehabilitation and O&M of Existing STPs in Distt. Prayagraj

M/s Adani Enterprises

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (325 MLD)		Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
19.05.17	11.01.19	Capex	359.95	399.47	72	253	14.16	-	0.01 (0)	Sept-2021
09.03.18		Opex	1311.64	508.53		Rehab & O&M				

➤ Package 1 (New STPs) – 4.57% progress,

➤ Package 2 (Rajapur & Naini STP upgradation) – 13.57% progress

➤ Package 3 (rehabilitation of 4 STP & SPS) – 44.03%

(Existing STP demolition at Phaphamau & site clearance at Naini are in progress.)

➤ Supplementary Proposal for capacity enhancement of existing STPs at Prayagraj to be submitted.

Status of Sewerage Projects in UP -Ongoing - HAM

5. Sewage Treatment Plant (STP) for Assi-BHU Sewerage District at Ramana (HAM Project)

M/s ESSEL Infraprojects Ltd. JV Research & Production Co. ECOS LLC

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical Progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
21.09.16	18.08.17	Capex	110.16	102	50	-	78 (76)	80.02 (66.70)	Mar-2020
		Opex	51.15	51.15					

- Progress hampered due to financial stress of the concessionaire.
- Review meeting held on 10.1.2020.
- Detailed day-wise plans made for making STP functional
 - Pumping Station rehabilitation
 - Procurement and supply of equipments (Valves, Internal pipes, DG Set)
 - Effluent Pipeline

Status of Sewerage Projects in UP -Ongoing

6. Moradabad: Prevention of Pollution of River Ganga at Moradabad (Phase-I)

M/s Larsen and Toubro & M/s EMS Infracon Pvt. Ltd

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical Progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
24.02.11	21.10.11	Capex	256.90	235	58	200.59	97	197.45	Mar 2020
		Opex	23.01	9					

- 5 out of 9 pumping stations commissioned. 2 Pumping Stations to be commissioned by Jan' 2020 and 2 by Feb' 2020. *(4/9 Pumping stations completed)*
- 13 gaps closed in last two months and 32 gaps remaining to be closed in sewerage system. *(29/ 74 gaps closed)*
- Completion by Mar'2020

Projects Under Tendering in UP

- **No. of Projects – 03 (Muzaffar Nagar, Budhana & Moradabad Zone II)**
- **Sanctioned Cost – ₹ 399.24 Cr**
- **Treatment Capacity – 57 MLD**
- **Sewer Line – 6.91 Km**

Projects in UP for which Tenders are to be Floated

- **No. of Projects – 08 (Farrukhabad, Ghazipur, Mirzapur, Agra Part I & II, Meerut, Bareilly and Lucknow)**
- **Sanctioned Cost – ₹ 2692.40 Cr**
- **Treatment Capacity – 544.38 MLD**
- **Sewer Line – 23.37 km.**

Namami Gange Projects in Bihar

Projects : **30 (Cost Rs. 5,329 Cr)**

Stage of Projects	As on 31.10.19		As on 15.01.2020	
	Main Stem (26)	Tributaries (2)	Main Stem (28)	Tributaries (2)
<u>Completed</u>	1	-	1	-
<u>Work in Progress</u>	17	1	18	1
<u>Tender under evaluation</u>	7	1	6	1
<u>Under Tendering</u>	1	-	-	-
<u>Tender to be floated</u>	-	-	3	-

Projects likely to be completed by Mar'20.

1. STP at Beur (43 MLD)
2. Saidpur STP (60 MLD) and adjoining network

Ongoing Projects

- **No. of Projects** – 19(17)
- **Sanctioned Cost**
– Rs 3,975 Cr (3509)
- **Awarded Cost**
– Rs. 4041 Cr (3560)
- **Expenditure**
– Rs. 932 Cr (697)
- **Total Treatment Capacity** – 420 MLD
- **Sewer Line** – 1,278 Km

Projects Under Tendering

- **No. of Projects** – 7
- **Sanctioned Cost**
– Rs. 765.33 Cr
- **Treatment Capacity** –
146.5 MLD
- **Sewer Line**
– 377.35 Km

Achievements & Issues in Bihar

- ✓ The 30 (28) Sewerage projects: Almost 10 fold increase in treatment capacity from **64 MLD to 632 (620) MLD** & 1743 km sewer line.
- ✓ STP at **Karmalichak (37 MLD)** completed. Trial with fresh water started.
- ✓ **For Digha Kankarbagh STP (150MLD)** and network (438km) agreement signed on 30.12.2019
- ✓ 4 projects awarded, Maner, Bhakhtiyarpur, Chhapra and Begusarai
- ✓ Ghats in Sonapur (6), Jamalpur and Munger completed

Key Issues:

- **Expedite Permission for road Cutting and Road Restoration:**
 - Permission of 111kms from Road Construction Department (RCD) and 215 kms from Patna Municipal Corporation (PMC) is pending - instructions given by Chief Secretary in the MoM issued on 30.12.2019
 - For existing pipeline in PMC, condition assessment is now completed.
- For all **under tendering projects--** (Danapur, Phulwarishariff, Fatuha, Hajipur, Munger, Khagaria, Bhagalpur) works need to **be awarded by March 2020.**

ATR on decisions of meeting on 30.10.2019 (Bihar)

	Directions	Compliance
1	The evaluation of the bids to be completed at the earliest for the projects where tenders have been received.	2 Projects were Awarded and other projects are under evaluation
2	Various issues pertaining to sewerage infrastructure projects in Bihar may be highlighted in review meeting with Hon'ble Chief Minister, Bihar in future as was done in U.P.	<ul style="list-style-type: none">• Instructions given by Chief Secretary to RCD & PMC to expedite permissions in a meeting on 16.12.2019• Necessary condition assessment for existing pipeline completed.

Completed Projects

Status of Sewerage Infrastructure

1.0. Karmalichak STP , Patna

River Ganga

- Construction of 37 MLD STP work in progress
- Name of Contractor: VOLTAS LTD. And GAA-GERMANY (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost (Rs Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progresses (%)	Total Expenditure (Rs. Cr.)
15.07.2014	30.03.2017	Capex	62.11	73.61	37	0	100	47.62
		Opex	14.93					(46.36)

- STP at Karmalichak (37 MLD) has been completed and trial run with fresh water completed successfully.

Status of Sewerage Infrastructure

1.1. Beur STP , Patna

VOLTAS LTD. and GAA-GERMANY (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost (Rs in Cr.)	STP Capacity (MLD)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Likely Date of Completion
15.07.14	30.03.17	Capex	54.84	77.85	43	99 (98)	50.43 (48.36)	Mar-20
		Opex	13.32					

- All the components of STP are completed except the receiving chamber.
- Targeted for completion by Mar'20

1.2. Beur Sewerage Network , Patna

L&T Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost (Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Kms)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Likely Date of Completion
30.12.2014	30.03.2017	Capex	203.71	271.32	0	179.74	64 (61)	204.08 (169.31)	June 20
		Opex	22.06	27.08					

- 120 Km completed out of 180 km of Sewer network.
- Zone-1: 50 km out of 51 km Sewer network laid, 1 Km to be completed by March 2020, to bring 8 MLD to STP. *(RCD permission not received)*

Status of Sewerage Infrastructure

1.3. Saidpur Sewerage Network, Patna

L&T Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
01.04.2015	09.01.2018	Capex	245.91	431.21	0	172.5	35 (32)	183.22 (147.27)	Jan-21
		Opex	22.72						

- Out of 172 Km (162 km in design) pipeline, 65 (56) km already laid.
- RCD permission for 34 km resolved, work started.
- 18 km in congested area (total 63km) front made available to start the work

1.4. Saidpur STP and adjoining network, Patna

UEM India & EMS Infracon Ltd (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Kms)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
01.04.2015	31.03.2017	Capex	153.34	188.00	60	55.1	89 (84)	163.36 (123.08)	Apr-20
		Opex	31.59						

- Out of 55.1 km, 50 (48) km network laid.
- STPs civil work completed in Dec 2019 and entire STP will be completed by Feb 20
- Permission from RCD pending for 5 km, for which payment has been made for restoration work of trenchless pipeline to start from 15th Jan 2020. (RCD permission required.)

Status of Sewerage Infrastructure

1.5. Karmalichak Sewerage Network , Patna

VA Tech Wabag Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Kms)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
16.03.2017	16.04.2018	Capex	257.67	253.98	0	96.54	41 (39)	57.04 (48.86)	May-21
		Opex	19.75						

- 51 (46) km pipe line has been laid out of 96.54 km.
- RCD permission related issues for 8.7 km is now resolved, work started.
- Money deposited for NHAI and Railway permission

1.6. Pahari Sewerage Network (Zone V) , Patna

Shapoorji Pallonji Company Pvt. Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network(Kms)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
22.05.2017	28.03.2018	Capex	300.73	364.90	0	115.93	35 (25)	66.06 (48.42)	Apr-21
		Opex	55.64						

- Out of 116 km, only 42 km has been completed. (32 Km completed)
- Payment made for RCD, NHAI and Railways for road permission

Status of Sewerage Infrastructure - Patna

1.7. Pahari Sewerage Network (Zone IV) , Patna

EMS Infracon & Technocraft Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
22.05.2017	28.03.2018	Capex	154.22	167.80	0	87.69	60 (49)	103.13 (79.27)	May-21
		Opex	30.64						

- Out of 87.69 km, 60 km has been laid.
- This zone will contribute 17 MLD of waste water to Pahari STP.
- Permission for RCD and NHAI related payment submitted and work started

1.8. Pahari STP , Patna

V A Tech Wabag Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Likely Date of Completion
19.05.2017	06.04.2018	Capex	111.57	147.65	60	0	45 (29)	32.85 (25.62)	Nov-20
		Opex	80.05						

- SBR Basin – 40%, MPS – 35 %, Pre-treatment – 40 % , Admin Building – 60%, Mechnaical Items – 50%, Effluent disposal line – 1.5 km completed. (*Raft work for SBR basin & Other structures completed*)
- Progress increased from 13% (July'19) to 45% (Dec'19).

Tender Received and Under Evaluation/ Tender to be floated



Sl No.	Name of the project	Date of Sanction	Sanctioned Cost (Rs. In Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Likely Date of Award	Remark
1	I&D and STP works for Bhagalpur (HAM)	12.10.2017	254.13	45	-	Feb-20	(1 st call), 2 bid received. Financial bid opened
2	I&D and STP at Khagaria	24.12.2018	21	4.50	-	Jan 20	(3 rd call), 1 bid received Technical evaluation in progress.
3	Danapur I & D and STP project	24.01.2019	103.27	25	6.9	Jan-20	(2 nd call) Single bid received. Technical evaluation in progress.
4	Interception and Diversion and STP works in Phulwarishariff	24.01.2019	46.25	13	6.4	Jan-20	
5	I&D and STP at Fatuah	24.12.2018	35.49	7.00	-	Jan-20	
6	Hajipur Sewerage and STP scheme	05.03.2018	305.19	22	189.3	Feb-20	(3 rd call), 2 bid received On 25.10.2019 Technical evaluation in progress.
7	Munger sewerage and STP scheme	05.03.2018	294.02	30	174.75	Mar-20	(1 st Call), 4 bids received.
TOTAL			765.33	146.5	377.35		

Tender to be floated

Sl No.	Name of Project	Date of AA&ES	Sanctioned Cost (Rs. In Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Likely Date of Award
1	Sewer Networks, SPS and STP, Buxar	31.12.2019	164.23 (including 17.29 Cr. of expenditure)	16	106.06 (40 km completed)	Mar-20
2	I&D and STP for Barahiya	30.12.2019	27.00	6	-	Mar-20
3	I&D and STP for Kahalgaon	30.12.2019	25.77	6	-	Mar-20
Total			217	28	106.06	

Namami Gange Projects in Jharkhand at a Glance

Projects : 2 (Cost Rs. 156.12 Cr)

Stage of Projects	Main stem	Tributaries
<u>Completed (Sahibganj)</u>	1	-
<u>In Progress (Rajmahal)</u> – Completion by 31.03.2020 Trial run will commence from April'20.	1	-

Completed Project

- ❖ No. of Projects – 01
- ❖ **Sanctioned Cost** – Rs. 99 Cr.
- ❖ **Awarded Cost** – Rs. 147Cr.
- ❖ **Expenditure** – Rs. 103.76 Cr.
- ❖ **Treatment Capacity Created** – 12 MLD
- ❖ **Sewer Line** – 51.30 Km* (51.30 km laid)

Ongoing Project

- ❖ No. of Projects – 01
- ❖ **Sanctioned Cost** – Rs. 57 Cr
- ❖ **Awarded Cost** – Rs. 53 Cr
- ❖ **Expenditure** – Rs. 15.28 Cr
- ❖ **Total Treatment Capacity** – 3.5 MLD
- ❖ **Sewer Line** – 34 Km (20.53 Km laid)

Status of Sewerage Infrastructure

River Ganga

1. Sewerage Scheme & STP works at Rajmahal

- STP being added from new projects (NGP) – **3.5 MLD** (Under Construction)
- New Sewer Network- **34.21 km (Revised BOQ 32 km)**
- Name of Contractor: M/s Anu Infra Construct India Pvt Ltd (JV)
- LoA issued on 08.06.2018. Agreement signed on 02.07.2018.

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
30-03-17	08-06-18	<u>Capex</u>	44.42	52.97	3.5	34.21	58	15.28	Mar'20
		<u>Opex</u>	12.34						

Issues:

- Sewer Network of 20.53 km out of 34 km laid.
- Work to be completed by Mar'20

Namami Gange Projects in West Bengal

Projects : 22 (Cost Rs. 3789.71 Cr)

Stage of Projects	As on 30.10.19		As on 15.01.20	
	Main Stem (19)	Tributaries (3)	Main Stem (19)	Tributaries (3)
<u>Completed</u>	3	-	3	-
<u>Work in Progress</u>	8	-	9	-
<u>Tender under evaluation</u>	2	-	2	-
<u>Under Tendering</u>	6	3	5	3

DPR under revision due to change in scope of Hooghly – Chinsurah, Mahestala, Asansol, Durgapur & Burdhan

Executing Agency
KMDA/ KMC



Kalyani STP, West Bengal

Completed Project

- ❖ **No. of Projects – 3**
- ❖ **Sanctioned Cost – Rs.455 Cr.**
- ❖ **Awarded Cost – Rs.603 Cr.**
- ❖ **Expenditure – Rs. 549.60 Cr.**
- ❖ **Total Treatment Capacity Created – 60.23 MLD**
- ❖ **Sewer Line Laid – 232.33 Km**

Ongoing Project

- ❖ **No. of Projects –9**
- ❖ **Sanctioned Cost – Rs. 1,277 Cr**
- ❖ **Awarded Cost – Rs. 1343**
- ❖ **Expenditure – Rs. 460.88 Cr**
- ❖ **Total Treatment Capacity – 234.3 MLD**
- ❖ **Sewer Line – 618.72 Km**

Status of Sewerage Infrastructure Projects-Ongoing

1. Halishahar (Name of Contractor: SIL-JBPL JV)

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (16 MLD)	New Sewerage Network & Rehabilitation (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
28.02.2014	16.11.2015	Capex	238.8	238.8	16	226.99	90 (89)	165.48 (161.98)	Jun'20
		Opex	35.9	35.9					

Status

- Location of 3 Lifting stations changed due to level issue with canal, designs modified and a new LS 7 was proposed, which is under construction.
- Location of MPS changed as due to soil condition of the location and can affect the existing structure (*Due to rainy season and festive season, municipality has asked to stop network laying work till 31st Oct 2019*)

Status of Sewerage Infrastructure Projects-Ongoing

2. Barrackpore (Existing STP Capacity – 5.35 MLD (Year 2003), (Name of Contractor: L&T) Ltd

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarde d Cost (Cr.)	STP Capacity	New Sewerage Network & Rehabilitation (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
30.12.2014	05.10.2016	Capex	229.41	229.41	24	247.14	85 (79)	182.50	Apr-20
		Opex	42.91	42.91					

- Lift Station 6: In Lalbagan small area in Armed Police not handed over. KMDA interacting regularly with the concern department. *(In Lalbagan area, a small area under Armed Police still not handed over. KMDA has been interacting regularly with the concern departments to resolve the issues.)*
- Permission for laying of 300 m Sewer Line through Defence area (Anandpuri) is awaited.

3. Budge-Budge (Existing STP capacity – 4.25 MLD (Year 2009), Name of Contractor: SIL-JBPL JV)

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity	New Sewerage Network & Rehabilitation (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
11.07.2014	10.12.2015	Capex	121.55	121.55	9.3	131.59	90 (88)	99.77 (97.33)	Jun-20
		Opex	24.43	24.43					

- Delay in ULB clearance for laying sewer network
- LS 7 – issue in land acquisition from Irrigation Dept. Encroachment in the area where inlet of STP to be constructed, compensation plan is under progress

Ongoing Projects- HAM

4. Interception & Diversion with STP at Howrah, Bally Baranagar & Kamarhati

	Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)		STP Capacity (MLD)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
			Capex	Opex	Capex	Opex				
I&D with STP at Bally	10.10.17	6.03.19	Capex	274.48	Capex	408.20	40	-	-	Dec-21
I&D with STP at Kamarhati & Baranagar	17.01.18	6.03.19	Opex	247.77	Opex	183.81	60	-	-	Dec-21
I&D with STP at Howrah	23.8.2017	6.03.2019					65	-	-	Dec-21

Issue: World Bank has insisted on rehabilitation of labor of existing sewerage system and pisciculture contractors becoming jobless due to demolition of existing WTP (based on WSP) *(Condition precedent being completed for announcing effective date.)*

Ongoing Projects

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)		STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
I&D at Nabadwip										
18.01.18	6.03.19	Capex	43.23	Capex	40.32	20	4	28 (20)	13.14 (9.09)	Dec-20
		Opex	18.00	Opex	18					
I&D at Kanchrapara										
28.11.18	12.09.19	Capex	25.36	Capex		18	2.5	Survey work completed. Site grading work under progress	-	Jun-21
		Opex	23.41	Opex						
Rejuvenation of Existing STPs at North 24 Parganas Dist										
08.03.19	4.12.19	Capex	45.04	Capex		46.24	0	Awarded Recently	-	Jun-20
		Opex	20.50	Opex						

Under Tendering/ Tender to be floated Projects

- No. of Sewage Projects – 10
- **Sanctioned Cost** – Rs. 1944 Cr
- **Total Treatment Capacity** – 506 MLD
- **Sewer Line** – 209.5 Km

Issues:

Behrampore and Jangipur is under tendering since last 10 months (State to be finalize)

SI No.	Name of the project	Date of Sanction	Sanctioned Cost (Rs. In Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Likely date of Award	Remarks
1	Interception, Diversion & treatment works at Behrampore	17.01.2018	51.2	3.5	5.25	Jan-20	LOA to be issued
2	Interception & Diversion with STP at Jangipur	11.06.2018	68.47	13	11.38	Jan-20	
3	Interception, Diversion & treatment Works at Tolly's Nullah (Adi Ganga) (HAM) (Retendering)	17.08.2017	307.12	26.1	114	Feb-20	Pre bid meeting completed
4	Rejuvenation of exiting STPs with sewerage network at Hoghly Dist., West Bengal	08.03.2019	86.61	78.9	0	Mar-20	Retendered
	Total		513.40	121.5	130.63		41

Tender to be Floated - West Bengal

Sl No.	Name of Project	Date of Sanction	Sanctioned Cost (Rs. In Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Likely date of Award	Status
1	Integration of STPs with rehabilitation and O&M of existing Assets, Garden Reach	05.03.2018	165.16	102	-	Mar-20	Existing O&M contract is for 5 years. State to revise
2	Interception & Diversion with STP at Hugli – Chinsurah	10.05.2018	160	29.3	20	Mar-20	Revised DPR under preparation due to change in scope of work
3	Interception & Diversion with STP at Meheshtala	10.05.2018	198.43	28.1	0	Mar-20	
4	I&D and STP works at Burdwan, West Bengal	24.12.2018	234.31	50	19	Mar-20	
5	Interception and Diversion (I&D) works with STP, for drains falling in River Damodar, at Durgapur, West Bengal	03.01.2019	287.53	80	11	Mar-20	
6	Detailed Project Report for I&D sewerage system & STP for Asansol & Kulti towns	24.01.2019	384.96	95	28.475	Mar-20	
	Total		1430	384	78.475		

Sewerage Projects in Delhi

- **Total no. of Sewerage Projects:** 11
- **Total cost :** 2361.09 Cr.
- **Implementing Agency:** Delhi Jal Board (DJB)
- **STP Capacity:** New - 998.50 MLD ; Upgrad. & Rehab. – 386 MLD (564 MLD STP at Okhla is India’s largest STP), 9 Nos of DSTPs (**22.5 MLD**) in Chattarpur area
- **Sewer Network:** Trunk Sewer- 20.88 KM; Rising Mains – 14.33 Km
- **Status:** 10 Under construction, 1 Under Tendering

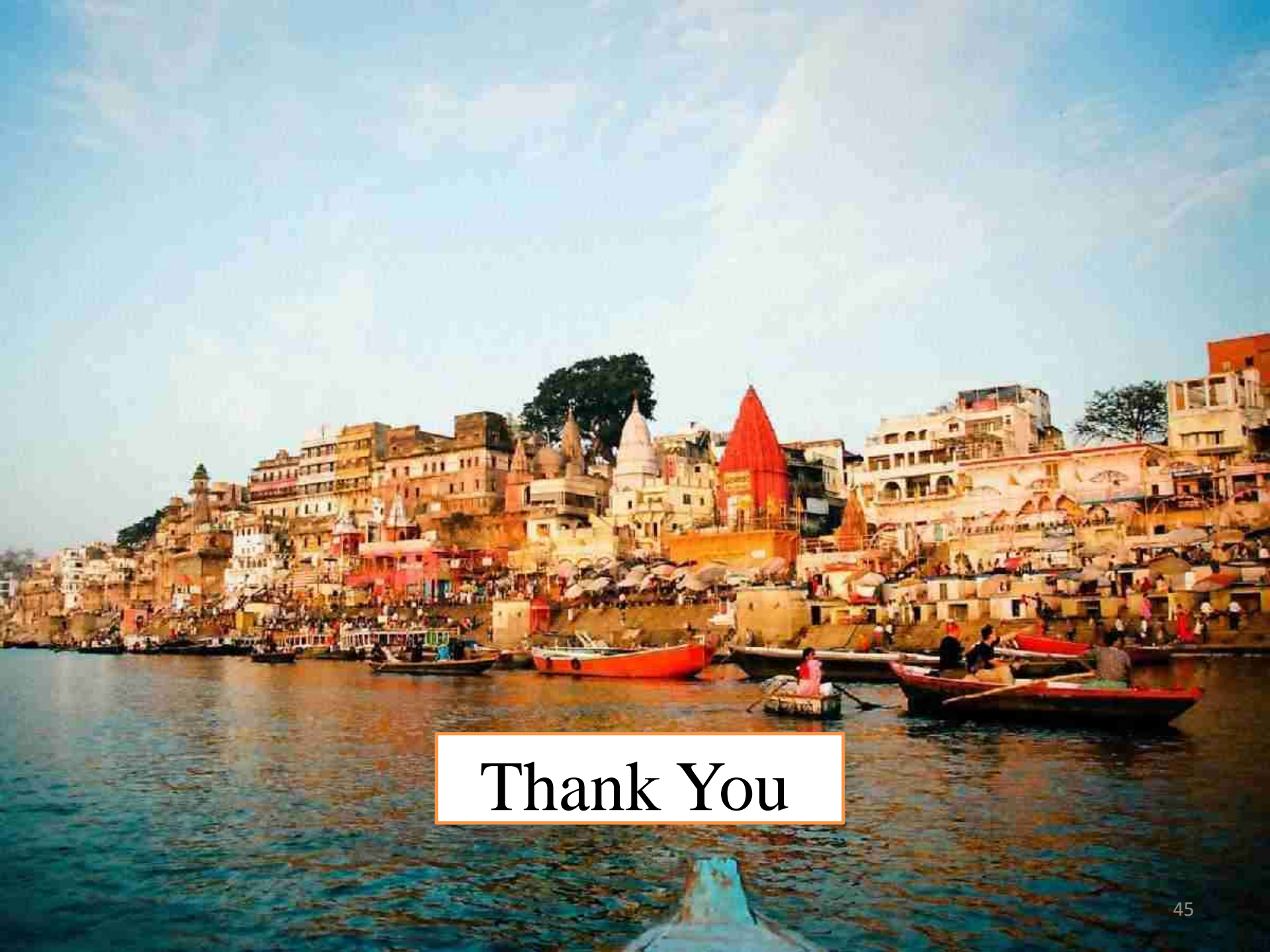
➤ 318 Mld Wastewater Treatment Plant, Coronation Pillar, Delhi

M/s. Larsen & Toubro Ltd- Passavant Energy & Environment Gmbh Joint Venture

Date of Award	Awarded Cost (Cr.)		STP Capacity	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
12.10.2016	Capex	414.79	318	68	207.39	Jun/Sep-20
	Opex	100.29				

Timelines for Implementation of Yamuna Action Plan-III Projects
All 8 projects “R1a, R1b, R2, K1, K2, K3, K4 & O” Awarded

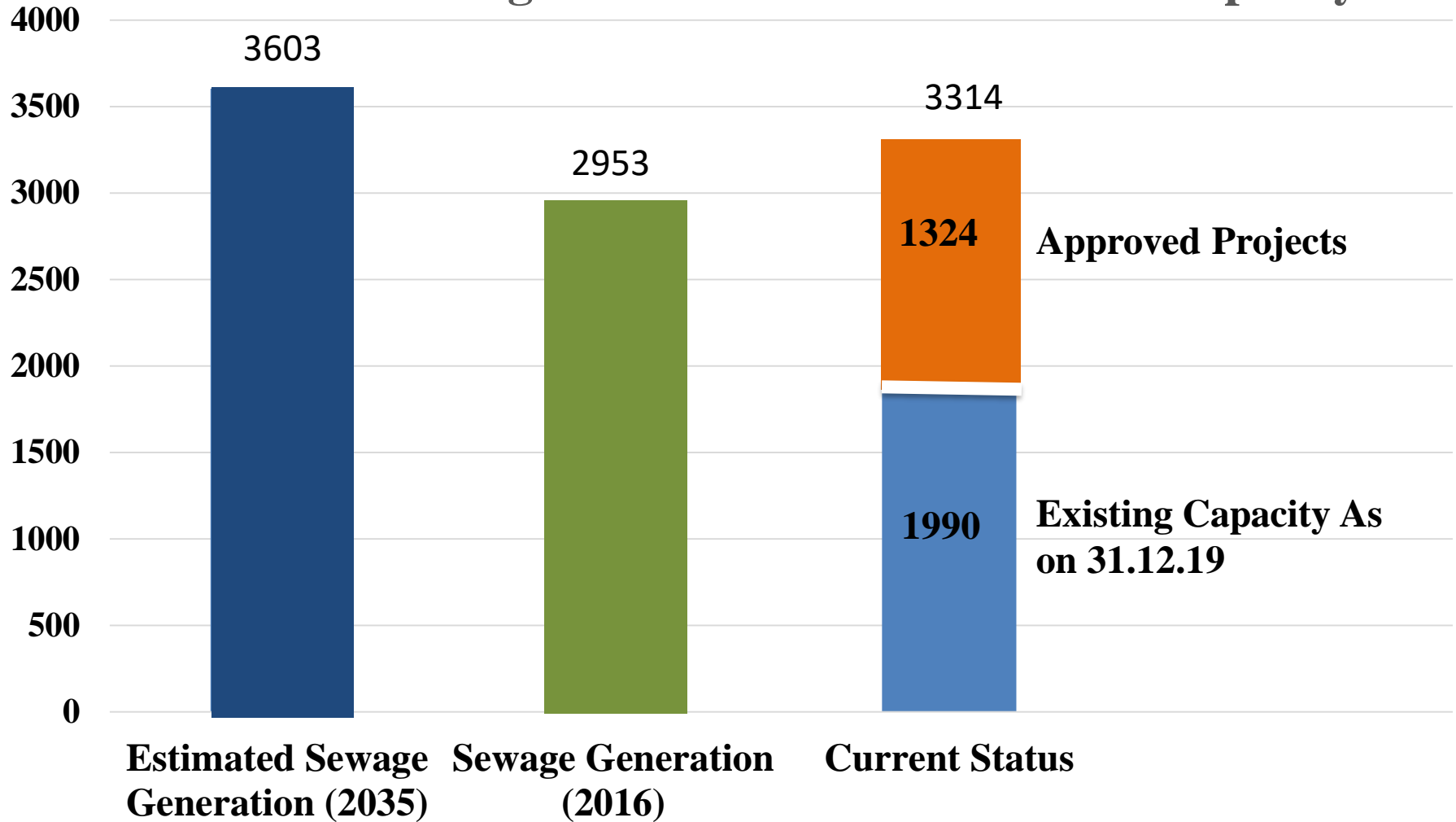
Sl. No.	Packages Name / Details of Project	NMCG approved cost (Rs. in Cr)	Date of AA&ES by NMCG	Date of award	Contract Amount (Rs. in Cr.)	Physical progress in (%)	Completion Schedule	
							Start	End
	Rithala STP related works							
1	R1a : Rithala - Rehabilitation of Trunk/Peripheral Sewer	43.92	05.05.2016	07.03.2018	30.71	56.00	21.3.2018	30.05.2020
2	R1b: Rithala – Rehabilitation / Replacing of Rising Main	45.40	16.03.2017	25.06.2018	37.58	55.50	04.07.2018	03.07.2020
3	R2 : Rithala - Rehabilitation & up gradation of Rithala (Ph-I) WWTP	211.79	05.05.2016	01.06.2018	223.70	26.25	15.06. 2018	14.12.2021
	Kondli STP related works							
4	K1 : Kondli - Rehabilitation of Trunk Sewer No.4	87.43	05.05.2016	14.11.2017	55.41	55.00	29.11.2017	28.05.2020
5	K2 : Kondli – Rehabilitation of Trunk Sewer No.5	83.40	06.05.2016	14.11.2017	74.35	84.67	29.11.2017	31.03.2020
6	K3 : Kondli - Rehabilitation & up gradation of phase I, II and III WWTPs	239.11	05.05.2016	26.07.2018	314.70	19.21	10.08.2018	09.02.2022
7	K4 : Kondli - Rehabilitation of Rising Main	59.13	16.03.2017	02.07.2018	42.90	29.25	11.07.2018	10.07.2020
	Okhla STP related works							
8	O : Okhla - Construction of 564 MLD (124MGD) New WWTP	665.78	16.03.2017	07.06.201	942.17	5.5	19.06.2019	18.12.2022
	Total	1435.96			1721.52			44



Thank You

Status of existing infrastructure and Interventions - 97 Towns along Ganga Main Stem

Sewage Generation Vs. Treatment Capacity



-All figures are in MLD (Million Litres per Day)

River Front, Ghats and Crematoria Projects

- For improving amenities, sanitation and connect with people.
- 123 ghats and 36 crematoria completed.
- River front at Patna (16 ghats and 5 km promenade) and Chandi Ghat, Haridwar completed.



RFD Patna



Khusrupur Ghat, Fatehpur

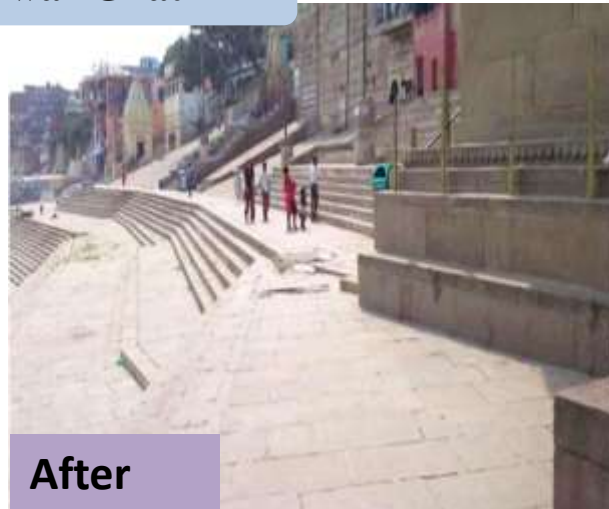
Solid Waste Management

- NMCG supporting projects for Ghat cleaning (243 ghats) and River surface cleaning through trash skimmers (11 locations).
- States to prevent dumping of solid waste in drains with special attention on 1 km stretch from river and ensure no garbage dump in flood plains.
- Need to improve solid waste processing capacity in Ganga Towns.

Kshameshwar Ghat



Before



After



Trash Skimmers



Industrial Pollution Abatement

- **Regulation of Polluting Industries**
 - **Inventorisation & 100% Annual Inspection** of GPIs through independent institutions of repute.
 - **Improvement in compliances observed.** – From 51.5 % (in Yr. 2016-18) to 87.45% industries complying Yr. 2018-19.
- **Common Effluent Treatment Plants (Jajmau, Banthar and Mathura)**
- **Thrust on process improvement** to reduce consumption of water and recycle.

CETP, Jajmau (20 MLD, Kanpur)

- Environment Clearance obtained from MoEFCC, CTE under process.
- Site mobilization & fencing completed. Site levelling works in progress.
- Basic Engineering package and Engineering drawing approved.

Upgradation of 6.25 MLD CETP at Mathura:

- Tender received on 24th Sep'19, Financial Bid opened on 22nd Oct'19.
- Financial Bid under evaluation in NMCG, to be awarded by end of January.

Water Quality Monitoring

- Manual Water Quality monitoring carried out at 97 locations.
- As per Water Quality Data (January to October, 2019), DO levels complying at all locations, BOD levels complying at 71 locations.
- Improving water quality trends as per assessment in 2019 as compared to 2014.
- 36 Real Time Water Quality Monitoring Stations (RTWQMS) installed. Additional 40 being set up.



Rural Sanitation

- Ensuring sanitation in Ganga villages.
- All 4465 Ganga bank villages declared ODF.
- 11 lakh Independent Household Latrines (IHHL) constructed.
- Solid, Liquid Waste Management.
- Tree Plantation.



Sustainable Agriculture in Ganga Basin

- **Agricultural runoff a major non-point source of pollution.**
- **Organic Farming taken up by MoA&FW in few clusters.**
- **Need to consider special programme of organic farming on 5 Kms stretch along both sides of Ganga.**
- **Riverbed Agriculture should be only Organic.**
- **85% of water utilization is for agriculture and efficient use of water is important for Aviralta.**
- **Special program needed in Ganga Basin for the Demand Side Management of water to increase Water Use Efficiency.**

Forestry Interventions for Ganga

- A scientific plan for afforestation along Ganga prepared by Forest Research Institute.
- Assisted natural regeneration over 1.34 lakh ha (Rs 2300 Cr).
- NMCG released to States Rs. 269.76 cr. (29624 ha).
- For Plantation of Medicinal Plants, NMCG released Rs. 35.46 cr. to Uttar Pradesh Forest Department for plantation in 8 Ganga bank districts.
- MoEF & CC and States to prioritize afforestation along Ganga & its tributaries through State and National CAMPA fund.



Biodiversity Conservation for Ganga Rejuvenation

- Projects for Aqua life, fishery research and promoting community participation with premier Expert Institutes.
- Gangetic river dolphin is our National Aquatic Animal
- Declared endangered species by International Union for Conservation of Nature (IUCN).
- It's presence signals healthy river ecosystem.
- A National Dolphin Conservation Programme - 'Project Dolphin' may be launched in the lines of 'Project Tiger' and 'Project Elephant' to enhance population of Dolphin.



Aviral Dhara



- Determination of Ecological flow - Gazette Notification dated 9th Oct' 18 for Uttarakhand and from Haridwar to Unnao stretch.
- Adopting scientific practices for water conservation; Reuse and Recycle of water.
- Rain water harvesting and Recharge of Aquifer.
- Need to integrate wetland conservation in basin management.
- States requested to strengthen Wetland Conservation Authorities for integrated management of wetlands.

Flood Plain Protection

- Flood plains are integral part of overall river ecology and their protection important for health of the river.
- NMCG 'Authority' Notification mandates protection of flood plains and keeping them regulated and construction free.
- Committee formed for flood-plain demarcation for Ganga from Haridwar to Unnao to identify no development zone and regulatory zone.
- States are requested to take action for demarcation of flood plains and protection thereof.



Communication and Public Outreach



**The Great Ganga Run,
Varanasi**



**The Great Ganga marathon,
Delhi**

Communication and Public Outreach



Mission Gange River Rafting expedition



Ganga Utsav



Rafting expedition 'Ganga Aamantran'

- **Prioritize River Conservation in education and related IEC activities in Schools and Colleges.**
- **States to strengthen District Ganga Committees (DGCs).**

Clean Ganga Fund



- **Clean Ganga Fund (CGF)** to facilitate contribution from individuals, NRIs, corporate entities for funding Ganga rejuvenation projects.
- **Total donation – Rs. 391.41 crores.**
- **Hon’ble PM had donated Rs 16.53 Cr to CGF, from the amount realized from auction of the gifts he received and Seoul Peace Prize money.**
- **Projects worth Rs. 203.91 crores have been sanctioned from CGF.**
- **Expenditure incurred on projects under CGF – 87.47 Cr.**

Status of Sewerage Infrastructure Projects-Ongoing

**4. Rudraprayag - 6 STPs (STP – 1: 0.075 MLD, STP – 2: 0.100 MLD, STP – 3: 0.075 MLD
STP – 4: 0.100 MLD, STP – 5: 0.125 MLD, STP – 6: 0.050 MLD)**

Interception and Diversion with STP:

Name of Contractor: M/s Jai Bhushan Malik contractors, & Confident Engineering India Pvt Ltd. (JV)

Date of sanction	Date of Award	Sanctioned cost	Awarded cost (Rs. In Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total expenditure (Rs . Cr.)	Likely Date of Completion
16.03.2017	24.10.2017	Capex- 7.55 Opex-5.59	10.36	0.52	6.69	89	6.77 (6.10)	Feb-20

Key Issues:

- Works on 5 STPs completed and One STP is under progress (delayed due to land issues)
- Work started for 6th STP (0.05 MLD at Belni Nala), foundation work completed. *(Land for STP – 6 has been changed; New land has been acquired)*
- Work needs to be expedited to complete by Feb'20.



Rudraprayag – STP

Status of Sewerage Infrastructure Projects-Ongoing

5. Karnaprayag - 5 STPs (STP – 1: 0.05 MLD, STP – 2: 0.10 MLD, STP – 3: 0.05 MLD, STP – 4: 0.05 MLD, STP – 5: 0.10 MLD)

Interception and Diversion with STP:

Name of Contractor: M/s Jai Bhushan Malik contractors, & Confident Engineering India Pvt Ltd. (JV)

Date of sanction	Date of Award	Sanctioned cost	Awarded cost (Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total expenditure (Cr.)	Likely Date of Completion
16.03.17	24.10.17	Capex- 11.60 Opex-0.49	8.83	0.35	4.73	95 (90)	6.7 (6.5)	Mar-2020

Status:

- 4/5 STPs are commissioned and 1/5 is in trial run.
All I&Ds are completed.
(Out of 5 STPs, 4 STP's are completed. 5th STP work is in progress, targeted to be completed it by November 2019.)



Karnaprayag – STP - Filter Vessel

Status of Sewerage Infrastructure Projects-Ongoing

6. Chamoli - Gopeshwar

Interception and Diversion and STP, Chamoli:

5 STPs (Cap: 0.76 MLD; 1.19 MLD; 1.25 MLD; 1.12 MLD; 0.05 MLD)

STP -1(0.76 MLD), STP – 2(1.19 MLD) are on trial run. STP -3(1.25 MLD), STP – 4(1.12MLD), STP– 5(0.05 MLD) are under progress.

Name of Contractor: M/s Jai Bhushan Malik contractors, & Confident Engineering India Pvt Ltd. (JV)

Date of sanction	Date of Award	Sanctioned cost (Cr.)	Awarded cost (Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total expenditure (Cr.)	Likely Date of Completion
29.03.17	24.10.17	Capex- 31.13 Opex-30.70	45.49	4.38	1.04	85 (79)	24.34 (21.57)	Feb'20

Status:

STP- 4/5 STP have been completed. *(STP-1 & 2 – Under trial run; STP-3,4,&5 are under progress)*

I&D: 5/7 I&D have been completed.

Key Issues:

STP-3-Pokhri bend

- Work progress is slow due to landslide issues.
- To be completed by Feb 2020.



Status of Sewerage Infrastructure Projects-Ongoing

7. Joshimath Interception and Diversion with STP (1 MLD + 2.7 MLD):

Name of Contractor: M/s Eco Protection Engineers Pvt. Ltd.

Date of sanction	Date of Award	Sanctioned cost (Cr.)	Awarded cost (Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total expenditure (Cr.)	Likely Date of Completion
16.03.17	12.01.18	Capex- 28.38	43.33	3.78	2.50	60 (59)	21.88 (21.14)	Jun'20
		Opex-20.04						

Status:

STP: 1 out of 2 STPs has been completed.

Key Issues:

- Work is started at STP-1 (2.70 MLD). Site development is in under progress. *(Work for 2nd STP was started, but the site abandoned due to landslides. Acquisition for alternate Land for 2nd STP by State is under process.)*



Joshimath STP 1- 1 MLD



Joshimath STP 2- 2.7 MLD

Status of Sewerage Infrastructure Projects-Ongoing

8. Badrinath Pollution abatement works (I&D with STP): 2 STPs (STP – 1 : 1 MLD; STP – 2 : 0.01 MLD).

Name of Contractor: M/s Aastha Enviro Engineers Pvt. Ltd.

Date of sanction	Date of Award	Sanctioned cost (Cr.)	Awarde d cost (Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total expenditure (Cr.)	Likely Date of Completion
29.03.2017	23.10.2017	Capex-9.13	11.95	1.01	-	95 (86)	8.39 (7.92)	May'20
		Opex-9.10						

Key Issues/Status:

- Construction of STP is completed. Trial run was started on 16.11.2019. Trial run by fresh water completed.
- Trial run by waste water to be started after opening of Temple doors in Apr'20.

Status of Sewerage Infrastructure Projects-Ongoing

9. Interception & Diversion of Nallas Discharging in Kosi River at Ramnagar

Name of Contractor: M/s R.K. Engineers Sales LTD. & M/s. Vidhut Kumar Jain-JV, Lucknow

Date of sanction	Date of Award	Sanctioned cost (Cr.)	Awarded cost (Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total expenditure (Cr.)	Likely Date of Completion
15.02.2019		Capex-30.19	Capex-27.59	7.0 & 1.5 (2 Nos.)	4.20	22 (0)	6.97 (0)	Jul'20
		Opex-22.21	Opex-22.50					

Status:

- Work is under progress and work will be completed by Jul'20.

Status of Sewerage Infrastructure Projects-Ongoing

10. Pollution Abatement of River Alaknanda at Srikot - Gangnali Part A : (Interception & Diversion with STP), Uttarakhand

Name of Contractor: M/s R.K. Engineers Sales LTD. & M/s. Vidhut Kumar Jain-JV, Lucknow

Date of sanction	Date of Award	Sanctioned cost (Cr.)	Awarded cost (Cr.)	STP capacity (MLD)	Sewer network (km)	Physical progress (%)	Total expenditure (Cr.)	Likely Date of Completion
15.02.19	Oct-19	Capex-30.19	Capex-27.59	7.0 & 1.5 (2 Nos.)	4.20	-	0.13	Nov -2020
		Opex-22.21	Opex-22.50					

- **Current Status:**
- Work is under progress and work will be completed by Nov-2020. (*Tender under evaluation*)

Status of Sewerage Infrastructure Projects-Ongoing

5. Sewerage Scheme & STP at Bithoor, Kanpur Nagar

Name of Contractor - M/s S.C.S. Enterprises

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Award Cost (Cr.)	Sewer Network (km)	Physical Progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
10.10.17	20.09.18	Capex	10.95	8.12	-	96% (80)	6.99 (6.7) (86 %)	Jan 2020
		Opex	2.45	1.87				

Constructed wetlands for 5 drains (total 7 drains) completed.

Issues -

- The diversion of Brahmawart Ghat drain to Dudhara Ghat drain completed. Wetland construction for these drains is under progress and likely to be completed by Jan' 2020.

Status of Sewerage Infrastructure Projects-Ongoing

9. Rehabilitation of Old Trunk sewer - Varanasi

M/s Sriram EPC Ltd. Chennai

Date of Sanction	Date of Award	Sanctioned Cost (₹ In Cr.)	Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical Progress(%)	Total Expenditure (in Cr.)	Likely Date of Completion
14.07.2010	27.05.2015	89.95	83.68	-	6.90	83.5 (73)	53.17 (63%)	Mar - 2020

Critical 642 m stretch linked to RP Ghat pumping station completed. (*Rehabilitation of Critical 620 m of 642 m stretch completed*)

Issues –

- Slow progress
- Works on remaining 1.2 km stretch to be expedited and completed by Mar-2020.

Status of Sewerage Infrastructure Projects-Ongoing

10. Rehabilitation of 5 Ghats pumping station & STPs at Dinapur & Bhagwanpur - Varanasi

M/s Kirloskar Brothers Ltd. Lucknow

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)	Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical Progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
14.07.2010	23.04.2015	20.52	18.64	89.8	-	81 (77)	15.10 (14.58) (79 %) (78%)	Dec-2019

RP Ghat pumping station rehabilitation completed

Issues –

- Remaining works of rehabilitation of existing Dinapur & Bhagwanpur STP to be expedited and completed by Mar 2020.

Status of Sewerage Infrastructure Projects-Ongoing

11. Faecal Sludge Management at Chunar

M/s Elefco Biotech Pvt. Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
07.03.19	01.11.19	Capex	2.22	1.91	0.01 (New)	-	-	-	Aug-20
		Opex (5 yrs)	0.48	0.26					

Engineering Designs and drawings under progress. *(Work Awarded)*

12. Interception, Diversion & Treatment Works at Ramnagar, Varanasi

Name of Contractor - M/s SNET, N&S & RISPL (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
28.07.17	Nov. 18	Capex	25.63	22.13	10 (New)	0.44	23% <i>(10)</i>	1.23 <i>(0.44)</i>	10 Sept. 2020
		Opex	47.28	47.28					

Issues –

Slow Progress. *(Work to be expedited)*

Status of Sewerage Infrastructure Projects-Ongoing

14. Mathura: Rehabilitation/Renovation of Mathura Sewerage Scheme

Name of Contractor: Triveni Engineering and Industries Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical Progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
21.09.2016	11.06.2018	Capex	273.18	273.18	30 (NEW)	17.51	44 (28)	102 (70) (37 %)	Jan 2021
11.06.2018 (Revised)		Opex	187.27	187.27	37.3 (REHAB)				

Status:

- 2nd milestone completed and 3rd milestone likely to be completed by Jan'20.
(*2nd Milestone likely to be reached by 15th Nov'19.*)

Issues:

- Permission of crossing of TTRO Rising Main from Gokul Barrage is awaited from Irrigation Department. Alternatively, proposal of crossing of TTRO Rising Main from river Bed is awaited from Concessionaire.
- Permission from Cantonment Board for re-routing of pipeline is awaited.

Status of Sewerage Infrastructure Projects-Ongoing

15. Interception, Diversion & Treatment Works at Ayodhya

M/s Satish Kumar Company

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
11.06.18	03.11.18	Capex	17.36	11.58	-	4.0	95 (60)	7.62 (65%)	May 2020
		Opex	20.31	17.44					

Status : I&D of 5/5 Nalas completed *(60% work completed)*

Issues - Work to be expedited.

16. Vrindavan: Rehabilitation of Sewerage Infrastructure & Upgradation of STP

Name of Contractor – M/s Hindustan Engineering, Lucknow

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
29.03.17	24.10.18	Capex	16.54	16.54	4 (Rehab)	-	92 (57)	10.01 (4.25) (60%)	Feb. 2020
		Opex	26.28	26.28					

Project nearly completion. *(Revised Proposal awaited. PWD permission pending for rising main)*

Status of Sewerage Infrastructure Projects-Ongoing

17. I&D and STP works at Kasganj

M/s Vibhor Vaibhav Infra Pvt. Ltd & M/s Baba Construction Pvt. Ltd. (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
24.12.18	01.06.19	Capex	39.09	34.24	15	2.80	9 (8)	0.43 (0.10)	June 2021
		Opex	37.64	33.32					

- Excavation of SBR basin started.
- Work to be expedited. (*Procurement of land for STP- 15 MLD sorted out*)
- Detailed Design engineering under progress.

18. I&D and STP works at Etawah

M/s Vibhor Vaibhav Infra Pvt. Ltd & M/s Baba Construction Pvt. Ltd. (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
15.02.19	25.06.19	Capex	60.75	44.66	21 (New)	2.2	7.5 (0)	3.14 (0)	January 2021
		Opex	79.85	75.28	23.95 (Rehab)				

- Excavation of CCT and SBR basin started.
- Work to be expedited. (*Work started*)
- Detailed Design engineering under progress.

Status of Sewerage Infrastructure Projects-Ongoing

19. I&D works at Firozabad

M/s Shree Tech Construction, M/s Jyoti Build Tech Pvt. Ltd. & M/s V. R. Co (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)		STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
15.02.19	11.10.19	Capex	25.55	18.88	-	2.5	2 (0)	-	Nov 2020	
		Opex	25.53	23.54						

- Work started.

20. I&D and STP works at Baghpat

M/s Insao Const.

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)		STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
15.02.19	09.12.19	Capex	41.38	24.24	14	2.945	-	-	June 2021	
		Opex	35.98	32.52						

- Work to be started on 15.01.2020.

Status of Sewerage Infrastructure Projects-Ongoing

21. I&D and STP works at Sultanpur

M/s EIEPL & AV (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
24.12.18	16.09.19	Capex	39.25	39.25	07 (NEW)	8	-	-	Sept 2021
04.12.19		Opex	25.51	25.51	10 (UPGRAD)				

- BEP work under progress.

22. I&D and STP works at Jaunpur

M/s SPML Infra Ltd. & M/s Pulkit Project Pvt. Ltd. (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Cr.)		Awarded Cost (Cr.)	STP Capacity (MLD)	Sewer Network (km)	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
12.02.19	23.09.19	Capex	142.14	118.67	30 (New)	-	-	-	Oct 2021
		Opex	63.91	45.33					

- BEP under review and work expected to be started in Jan'20.

Status of Sewerage Infrastructure Projects-Ongoing

23. Non Sewerage, Institutional Development & Other Works for pollution abatement in Varanasi

Varanasi Nagar Nigam

Date of Sanction	Sanctioned Cost (Cr.)	CTC	Dhobi Ghat	Physical progress (%)	Total Expenditure (Cr.)	Likely Date of Completion
17.11.17	126.20	152/ 154 completed	04 New 05 Rehab	86%	50.59 Cr.	Oct-21

Key Achievements & Issues Resolved since Jun'19

Land Issues Resolved: 9 project towns

1. Prayagraj – STP land issues at Naini & Jhusi, and 3 sewage pumping stations
2. Mathura – Jaisingpura SPS land
3. Ramnagar – MPS shifted to STP site
4. Shuklaganj – STP land shifted away from Ganga flood plains
5. Kanpur – CETP Land issue; Pankha Land use changed
6. Kasganj – STP Land
7. Firozabad – SPS Land
8. Muzaffarnagar – STP and SPS land
9. Baghpat – STP Land

Other Critical Issues resolved

1. **Narora STP**: Project sanctioned for effluent disposal pipeline – Work Completed.
2. **Project for relieving OTS at Varanasi** to avoid bypass of sewage from Rajghat outfall sanctioned (AMRUT) – tender under evaluation
3. **RP Ghat Pumping Station rehabilitation at Varanasi completed**
4. **OTS rehabilitation at Varanasi** –critical stretch, linked to RP ghat pumping station completed. Work on last stretch of 1.2 km in progress.
5. **Baniyapurwa STP** – made functional but clogged sewage lines being cleaned

Summary of Sewerage Projects In Bihar

State	Projects	Completed	Ongoing Projects		
			Work-in-Progress	Tender Under Evaluation	Under Tendering
Main Stem	28	1	18	6	3
Tributary	2	0	1	1	0
	30	1	19	7	3

No. of Projects		Sanctioned Cost (₹ In Cr.)	STP Capacity to be Created (MLD)	Sewer Network to be Laid (Km)	Total Expenditure (₹ In Cr.)
30		5329	631.5*	1,754	986.02
Ganga Mainstem	28	5,247	618*	1754	982.46
Tributary	2	82	13.5	0	3.56

Note:

* - Including creation of 49 MLD STP through Rehabilitation

Ongoing Projects

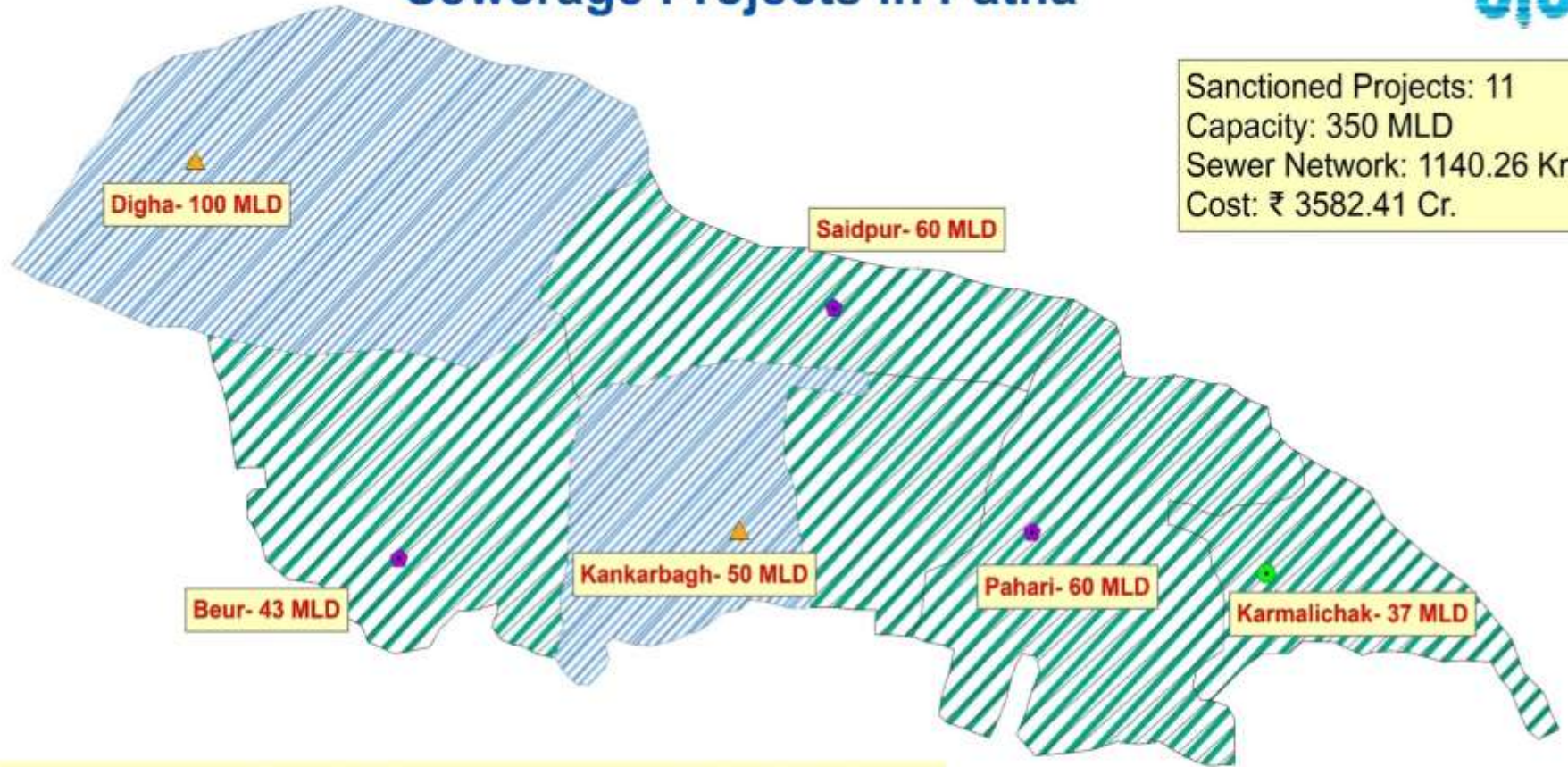


Beur STP (43 MLD), Patna



Saidpur STP (60 MLD), Patna

Sewerage Projects in Patna



Sanctioned Projects: 11
Capacity: 350 MLD
Sewer Network: 1140.26 Km
Cost: ₹ 3582.41 Cr.

STP

- Completed :01 Project
- ▲ LoA Issued:02 Projects
- ◆ Under Execution :08 Projects

Project Status

Legend for Project Status: Blue diagonal hatching for LoA Issued, Green diagonal hatching for Under Execution, Green circle for Completed.

Sewage Generation (2016) - 218 MLD
Sewage Generation (2035) - 286 MLD
Existing Capacity – 109 MLD
(Non-Operational)

Status of Sewerage Infrastructure Projects-Ongoing

1.3. Saidpur STP and adjoining network, Patna

River Ganga

- Name of Contractor: UEM India & EMS Infracon Ltd (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost (Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Kms)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
01.04.2015	31.03.2017	Capex	153.34	188.00	60	55.1	89 (84)	163.36 (123.08)	Apr-20
		Opex	31.59						

- Out of 55.1 km, 50 (48) km network laid.
- STPs civil work completed in Dec 2019 and entire STP will be completed by Feb 20
- Permission from RCD pending for 5 km, for which payment has been made for restoration work of trenchless pipeline to start from 15th Jan 2020. (*RCD permission required.*)

Status of Sewerage Infrastructure - Patna

1.6. Pahari STP, Patna

V A Tech Wabag Ltd.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost (Rs in Cr.)	STP Capacity (MLD)	Sewer network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Likely Date of Completion
19.05.2017	06.04.2018	Capex	111.57	147.65	60	0	45 (29)	32.85 (25.62)	Nov-20
		Opex	80.05						

- SBR Basin – 40%, MPS – 35 %, Pre-treatment – 40 % , Admin Building – 60%, Mechanical Items – 50%, Effluent disposal line – 1.5 km completed. (*Raft work for SBR basin & Other structures completed*)
- Progress increased from 13% (July'19) to 45% (Dec'19).



SBR Basin



Status of Sewerage Infrastructure

River Ganga

1.9. Sewerage system and STP for Digha zone.

- STP – 100 MLD
- Name of Contractor: M/S VA Tech Wabag.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost (Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
11.08.2017	31.12.2019	Capex	563.20	1187.86	100	288	-	0.41	June-22
		Opex	260.80						

Status

- Project agreement signed on 30.12.2019. Work to start soon. *(Concession agreement to be signed.)*
- Survey work in progress.

Status of Sewerage Infrastructure

River Ganga

1.10. Sewerage system and STP for Kankarbagh.

- STP – 50 MLD
- Name of Contractor: M/S VA Tech Wabag.

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost (Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
11.08.2017	31.12.2019	Capex	376.67	1187.86	50	150	-	0.29	June-22
		Opex	202.22						

Status

- Project agreement signed on 30.12.2019. Work to start soon. (*Concession agreement to be signed.*)
- Survey work in progress.

Status of Sewerage Infrastructure

River Ganga

2. Sultanganj I&D and STP works

- STP – 10 MLD (Under Construction).
- Name of Contractor: VC Projects
- Date of Commencement- 17.09.2018

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
1.08.2017	14.09.2018	Capex	22.89	63.51	10	0	14 (0)	2.99 (0.15)	Apr-20
		Opex	37.33						

- Construction of MBBR tank, Admin building, centrifugal building, CCT, Sludge storage shed, Chlorine tonner building works are under progress. *(Detailed design has been vetted. Now excavation work at STP started.)*

Issues:

- Land for 1 SPS yet to be handed over to BUIDCo. *(Land for 3 SPS is available whereas for 1 SPS is yet to be handed over to BUIDCo)*

Status of Sewerage Infrastructure

3. I&D and STP works for Naugachia

River Kharkari

- STP – 9 MLD (Under Construction).
- Name of Contractor: UEM India Pvt Ltd
- Date of Commencement- 22.10.2018

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
01.08.2017	22.10.2018	Capex	24.24	61.89	9	0	-	3.56	Apr-20
		Opex	36.55						

- The STP land has been handed over on 28.09.19. BEP has been vetted in December 19. *(BEP & design drawing are under vetting from IIT Roorkee)*
- The work of boundary wall started.
- Detailed design is in progress and expected from IIT Roorkee by 15th January 2020.

Issues

- The work is getting delayed due to land clearance aspects.
- Land for 5 SPS; NOC for 2 SPS have been obtained, 2 SPS will be cleared within a week, and rest 1 SPS is pending from Railways. *(NOC for 2 SPS have been obtained, 2 SPS will be cleared within a week, and rest SPS is pending from Railways.)*

Status of Sewerage Infrastructure

4. Sewerage System and STP for Barh town

River Ganga

- STP – 11 MLD
- Name of Contractor: UEM India Pvt Ltd
- Date of Commencement- 17th Feb 2019

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
10.08.2017	22.10.2018	Capex	22.07	53.90	11	0	10 (0)	2.71	Apr-20
		Opex	36.19						

Status:

- Land issues of STP are now resolved. Work has been started however, the progress is slow.
- Works for reinforcements of SBR raft and wall completed. Concreting in progress
- Survey works completed.
- IPS design and drawing works are under progress.

Status of Sewerage Infrastructure

5. Mokama I&D and STP works

River Ganga

- STP – 8 MLD
- Name of Contractor: EMS Singh JV
- Date of Commencement- 15th June 2019

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
28.07.2017	15.06.2019	Capex	18.75	59.17	8	0	0	0.06	Oct-20
		Opex	42.16						

Status:

- Survey work completed. *(Land NOC for STP received on 2nd September 2019. Survey work & BEP is under process.)*
- BEP and detailed design submitted to IIT Roorkee on 11.01.2020.
- BEP and detailed design submitted to IIT Roorkee on 11.01.2020.
- Boundary wall work started.

Status of Sewerage Infrastructure

River Ganga

6. I&D works with STP at Sonapur

- STP – 3.5 MLD
- Name of Contractor: SG Construction & SN Enviro Tech Ltd
- Date of Commencement- 06th June 2019

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
14.09.2018	04.06.2019	Capex	18.58	29.35	3.5	0	0	0.71	Dec-20
		Opex	12.35						

Status

- Land NOC for STP received on 18th August 2019. Survey work & BEP completed, vetting from IIT by 15.01.2020. Scheduled completion time by December 2020. *(Land NOC for STP received on 18th August 2019. Survey work & BEP is under process)*

Status of Sewerage Infrastructure

River Ganga

7. I&D works with STP at Maner

- STP – 6.5 MLD
- Name of Contractor: SIMA Labs Pvt.Ltd & Anand Kumar Contractor(JV)

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
02.01.2019	27.09.2019	Capex	17.36	40.83	6.5	3	-	-	Apr-21
		Opex	24.00						

Status

- Survey work started along with team mobilization for BEP.

Status of Sewerage Infrastructure

River Ganga

8. I&D works with STP at Bakhtiyarpur

- STP – 10 MLD
- Name of Contractor: S.G constructions & SN enviro tech pvt.Ltd.(JV)

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
24.12.2018	27.08.2019	Capex	20.27	36.04	10	-	-	-	Mar-21
		Opex	15.61						

Status

- Agreement signed on 27.08.2019.
- Survey work started along with team mobilization for BEP.
- Approach to STP not available

Status of Sewerage Infrastructure

River Ganga

9. Sewerage Network and STP scheme at Begusarai

- STP – 17 MLD
- Sewerage Network: 114km
- Name of Contractor: M/s Toshiba Water Solutions Pvt. Ltd and Kevariya (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost (Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
05.03.2018	31.12.2019	Capex	172.53	236.86	17	114	14	10.94	Dec-21
		Opex	57.53						

Status

- Work awarded on 31.12.2019 after obtaining necessary approval from World Bank.

Status of Sewerage Infrastructure

River Ganga

10. I&D and STP works at Chhapra

- STP – 32 MLD (to be constructed in 2 moduled of 16 and 16 MLD)
- Name of Contractor: M/s Toshiba Water Solutions with Kevariya (JV)

Date of Sanction	Date of Award	Sanctioned Cost (Rs. In Cr.)		Awarded Cost(Rs in Cr.)	STP Capacity (MLD)	Sewer Network (Km)	Physical progress (%)	Total Expenditure (Rs. In Cr.)	Date of Completion
30.11.2018	31.12.2019	Capex	115.46	244.39	32	18.39	-	-	June-21
		Opex	120.69						

Status

- LoA issued on 31.12.2019. Work to start soon.

Summary of Sewerage Projects In Bihar

State	Projects	Completed	Ongoing Projects		
			Work-in-Progress	Tender Under Evaluation	Under Tendering
Main Stem	2	1	1	-	-
Tributary	-	-	-	-	-
	2	1	1	0	0

No. of Projects		Sanctioned Cost (₹ In Cr.)	STP Capacity to be Created (MLD)	Sewer Network to be Laid (Km)	Total Expenditure (₹ In Cr.)
2		156.12	15.5	89.21	119.04
Ganga Mainstem	2	156.12	15.5	89.21	119.04
Tributary	0	0	0	0	0

Summary of Sewage Projects In West Bengal

State	Projects	Completed	Ongoing Projects		
			Work-in-Progress	Under Tendering	Tender to be Floated
West Bengal	22	3	9	3	7

No. of Projects	Sanctioned Cost (Rs. In Cr.)	STP Capacity to be Created (MLD)	Sewer Network to be Laid (Km)	Total Expenditure till Dec'19 (Rs. In Cr.)
22	3789.71	864.67*	1063	1010.84

Note: *Includes STP capacity created through Rehabilitation

River Front, Ghats and Crematoria Projects

Before



After



Rudraprayag Ghat

Before



After



Chandi Ghat, Uttarakhand

River Front Development Projects

RFD PATNA

- Cost: Rs. 336.73 Crore
- Expenditure: Rs. 283.56 Crore

- No. of Ghats: 20 (16 Complete)
- Promenade: 6.6 km (5 km Complete)
- Crematoria : 1 - Completed

- Buildings: 3 Completed
 - Audio visual Theatre at Baharwa Ghat
 - Community cum Eco Centre at Collectorate Ghat
 - Community cum Cultural Centre at Raja Ghat.



Promenade