

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, WESTERN ZONE AT PUNE
Original Application No. 88/2025

Dr. Rakesh Bakshi Applicant

Vs

State of Maharashtra & ors. Respondents



Affidavit on behalf of Respondent 2 i.e BMC

1. We, 1)Mr.S.N.Bhore, Adult Indian Inhabitant of Mumbai, working as the Deputy Municipal Commissioner (Engineering). In the employment of the Respondent BMC, having my office at, BMC Worli hub building, near Acharya Atre Chowk metro station, Worli naka, Mumbai 400034 and 2) Mr. P.L.Malwade, Adult Indian Inhabitant of Mumbai, working as the Deputy Municipal Commissioner (Special Engineering) In the employment of the Respondent BMC, having my office at BMC Mumbai Building, 2nd floor, Mahanagarpalika Marg, CST, Mumbai 400001, Mumbai we do hereby state on solemn affirmation as under:
2. The Present affidavit is filed in compliance of order dtd.12.02.2026 of the Hon'ble Tribunal. The Hon'ble Tribunal vide order dtd, 12.02.2026 had directed the Respondent BMC to give in tabular format the steps taken in compliance of recommendation of the Joint Committee with respect to the issue of Pollution in Powai Lake.
3. I say that, the Hon'ble Tribunal vide order dtd. 12.01.2022 in OA No. 68/2021, had directed formation of Joint Committee comprising of officer from various departments and Institutions. The Joint Committee has visited the site and suggested remedial measures for reducing pollution in Powai Lake. The said recommendation of the Joint Committee along with steps taken by these Respondent BMC are enumerated below in tabular format:

Remedial measures Suggested by the joint committee:-

Though various measures have been proposed for abatement of sewage pollution into Powai Lake by implementation of short-term & long-term measures, however, completion of the same may take substantial period of time. Meanwhile, following remedial measures may be implemented for abatement of sewage pollution into Powai Lake:

(i). In-situ remediation is simpler to implement than conventional methods, requiring less space and energy. In-situ drain remediation techniques involve the treatment of sewage in the flowing drains by physio-chemical and biological treatment processes. Treatment occurs directly in flowing drains

through physical (screening, sedimentation, aeration), chemical (flocculation), and biological (microbial oxidation via phytoremediation) processes. These systems effectively lower BOD and faecal coliform levels while boosting dissolved oxygen including substantial reduction of total nitrogen & phosphorous. Phytoremediation, for example, can reduce faecal coliform by over 50% and raise DO from 0 to 5 mg/l. Additionally, there are alternative biological treatments available for removing nutrient pollutants such as phosphorous and nitrogen. There are many in-situ drain treatment technologies such as Green Bridge Technology (GBT), Microbial Dosing (MD), Soil Scape Filter 3 Technology (SSFT), Floating Islands Technology (FIT), and Restoration of Nallah with Ecological Units (RENEU) are available in India for treating various drains.

In view of the above, as an interim treatment method, the BMC to expeditiously implement in-situ drain treatment technology in the culverts and drains, which are carrying untreated sewage into the Powai Lake.

With respect to above point no. (i) steps taken by these Respondent BMC are as follows:-

The Sewerage Project Department has proposed the work of detection of ingress, interception and diversion of DWF (sewage/sludge) work and stopping of sewage ingress in Powai Lake in 'S'-Ward of BMC Mumbai. BMC has appointed Consultant, M/s. Tandon Urban Solution pvt. Ltd. for preparation of DPR and Tender Document for the said work and work order issued to the consultant under no. 9000007380 dt. 17.02.2023. Consultant M/s. TUSPL has prepared Detailed Project Report (DPR) and tender documents. The consultant has estimated a theoretical sewage flow of 15.85 MLD, i.e. Dry Weather Flow (DWF), from the existing sewer line and adjacent slums (i.e. Shri Ganesh Nagar 1 & 2, Sainath Nagar, Chaitanya Nagar, and Swami Narayan Nagar) to Powai Lake, through 19 outfalls and 2 MLD flow from outfall near Peru Baug.

Considering the existing topography, flow generation and site conditions, the consultant proposed the following solution, The work is proposed in two different parts:-

Proposal 1:- Providing and Laying of different dia. Sewer pipe by Open cut & HDD method along with interceptor for diversion of DWF along Powai Lake in 'S' Ward. (Total length of Sewer line=3056 m. & total nos. of interceptors=13 nos)

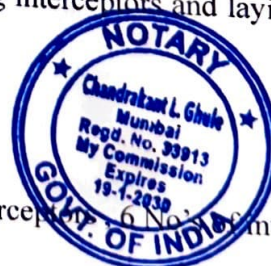
Proposal-1 is divided in to three parts as follows

Part-a) Flow around 8.0 MLD from Gate 1 to 14 will be intercepted and diverted to proposed 8 MLD STP @ abandoned Powai sewage pumping station land by providing interceptors and laying sewer line under gravity system.

Length of sewer line: 1909 mtr (laying by HDD method)

Nos of Interceptor: - 09 nos

Present status of the work:- 85% of sewer line is laid. Out of 9 interceptors, 6 Nos. interceptors work is in progress.



Part-b) Flow around 8.0 MLD from Gate 15 to 18 will be intercepted and diverted to robo hole on 800 mm existing sewer line along JVLR which heads to bhandup STP , by providing interceptors and laying sewer line under gravity system. Also, a provision will made to divert this 8 MLD DWF to proposed STP as an alternate arrangement by laying sewer line under gravity system.

Length of sewer line: 942 mtr (laying by HDD method)

Nos of Interceptor:- 02 nos

Present status of the work:- 77% of sewer line is laid and interceptors work is yet to be started.

Part-c) Flow around 2.0 MLD from Peru Baug will be intercepted and diverted to Peru Baug pumping station which sends the flow to 9 MLD STP @ Mithi river by providing interceptors and laying sewer line under gravity system.

- Length of sewer line: 205 mtr (laying by open cut method)
- Nos of Interceptor: 02 nos

Present status of the work:- 100% work is completed.

Proposal 2 :- Designing, Providing, Constructing and Commissioning modernized and fully automated Sewage Treatment Plant of 8 MLD capacity on Design, Built, Operate (DBO), along with 06 year of Operation and Maintenance at Powai abandoned sewage pumping station, in 'S' Ward.

Details of the proposal 2 are as follows:-

- Construction and commissioning of STP
- Demolition of existing structures at STP
- Compound Wall for STP
- Treated Water Discharge line 600 meters
- Wet Well
- GFS Glass Tank
- 8 MLD STP & Pre-Treatment Unit M&E work including all required civil works
- MBR System including sludge management system
- Instrumentation Works
- Electro-chlorination Disinfection System
- Pre-Treatment Unit- Commissioning & Trial Run
- MBR System - Commissioning & Trial Run
- Electro-chlorination Disinfection System - Commissioning & Trial Run
- Pre-Treatment Unit - Comp O&M (3 Years DLP + 3 years Non-DLP)
- MBR System - Comp O&M (3 Years DLP + 3 years Non-DLP)
- Electro-chlorination Disinfection System - Comp O&M (3 Years DLP + 3 years Non-DLP)
- O&M of Instrumentation Works (3 Years DLP + 3 years Non-DLP)



- Disposal of Dried sludge
- Contract Cost :-Rs.65,88,36,771.46/-
- Time Period :- 24 Month (Excluding Monsoon)
- Work Order is issued to the M/s. EIUL-SSG JV U/No Ch./E/S.P./807 dtd. 12.12.2025 & the work is in progress.

On execution of the above mentioned works, the Sewage (DWF) ingress will be diverted & by setting up an STP & releasing a treated water into Powai Lake, the water balance in the lake will be maintained & the aquatic life / biodiversity of the lake will be preserved. Annexed herewith its copy of bar chart of SP department as Annexure A.

(ii) After completion of diversion of the untreated sewage into newly proposed sewer lines and subsequent connectivity & treatment at new STP and at existing STPs, the BMC should carry-out rejuvenation of Powai Lake by implementing in-lake restoration techniques - engineering techniques and/or biological techniques. The said activity may be carried-out under the supervision of academic/research institutes having expertise in Rejuvenation of Rivers and Lakes, with funding from the BMC.

With respect to above point no. (ii) steps taken by these Respondent BMC are as follows:

Hydraulic Engineer department – HE department has proposed the work of Sedimentation survey of Powai Lake and checking feasibility for desiltation of Powai Lake via. appointed NGO M/s. Green Yatra (NGO) through CSR Fund. The said work will be carried out in Phase 1 and Phase 2 manner.

Phase 1 - scientific pre-assessment for Powai Lake Restoration

Phase 2 – Actual execution of work i.e. desilting of Powai Lake

The work for Phase 1 is already started. The work will be executed in co-ordination with staff from BMC, M/s. Green Yatra (NGO), experts from IIT, Bombay, experts from Bombay Natural History Society(BNHS) and stakeholders from Powai Areas.

(iii). The BMC must ensure that no untreated sewage is discharged into the Powai Lake and till setting up of STPs, interim remediation (in-situ remediation) must be done forthwith. In case of any default in this regard, the Hon'ble NGT may direct the BMC to pay compensation of Rs. 5 lakh per month per inlet into the lakes from 01/02/2020, as deemed fit, as per the Hon'ble NGT (PB) matter in the OA. No. 125 of 2017, Court on its own Motion Vs the State of Karnataka.

With respect to above point no. (iii), steps taken by these Respondent BMC are as follows:

a) Diversion of 8 MLD Flow from Gate 1 to Gate 14 to Proposed STP at Powai Udanchan Kendra: 85% of sewer line is laid. Out of 9 interceptors, 6 Nos of interceptor's work is in progress for Diversion of 8 MLD flow from Gate 1 to Gate 14 to proposed STP at Powai Udanchan Kendra.



b) Diversion of 8 MLD Flow from Gate 15/16 to Gate 17/18 to Bhandup STP : 77% of sewer line is laid. Out of 2 interceptors, no interceptor work is in progress for Diversion of 8 MLD flow from Gate 15/16 to Gate 17/18 to Bhandup STP.

c) Diversion of 2 MLD Flow at Perubaug to Mithi STP : 2MLD Flow is successfully diverted at Perubag to Mithi STP and 2 Nos interceptors work is completed. At present, no current ingress is observed into Powai Lake from Perubaug.

d) Till the completion of proposed STP at Suvarn Mandir (abandoned pumping station plot) by Ch.E. (MSDP) , it is proposed to divert the entire sewer ingress along JVLR to the Bhandup WWTF (Waste Water Treatment Facility) through the existing sewer network.

Annexed an Exhibit-B is the copy of Bart Chart of STP project schedule.

(iv). It has been reported by the BMC in its Detailed Project Report of March, 2025 that about 4,500 Lakh m3 of silt has been deposited in the Powai Lake. Decreased transmission of light through the water column is among the most important of the physical effects of increased sediment loads on aquatic ecosystems. Increased sediment loads or resuspension of deposited sediments can cause considerable reductions in both oxygen availability and rates of water column reaeration, thereby significantly impacts the biodiversity, ecological processes, and ecosystem functions of the Lake.

In view of the above, the BMC to expeditiously carry-out dredging of edges of Powai Lake to remove the accumulated sediment and debris including de-weeding from the shoreline and shallow areas including de-silting of Powai Lake to restore depth, improve water quality, and enhance the ecosystem functions. Further, analysis of sludge and silt may be carried out before its disposal based on the result of such analysis, the mode of disposal and protocol be determined in accordance with laid down principles under the relevant Rules. The BMC may refer and adopt the appropriate remediation and de-silting techniques which are implemented by the Govt. of Karnataka, as per their action plan & compliance report submitted to the Hon'ble NGT (PB) in the matter in OA. No. 125 of 2017, Court on its own Motion Vs The State of Karnataka.

With respect to above point no. (iv) steps taken by these Respondent BMC are as follows :-

As mentioned in Point No. (ii),

Hydraulic Engineer department- HE department has proposed the work of Sedimentation survey of Powai Lake and checking feasibility for desiltation of Powai Lake via. appointed NGO M/s. Green Yatra (NGO) through CSR Fund. The said work will be carried out in Phase 1 and Phase 2 manner.

Phase 1 - scientific pre-assessment for Powai Lake Restoration

Phase 2 - Actual execution of work i.e. desilting of Powai Lake



The work for Phase 1 is already started. The work will be executed in co-ordination with staff from BMC, M/s. Green Yatra (NGO), experts from IIT, Bombay, experts from Bombay Natural History Society (BNHS) and stakeholders from Powai Areas.

Experts from IIT, Bombay will help as following;

Scientific assessment and characterization of lake silt, Identification of suitable desilting methodologies based on experimental and analytical findings.

(v). The BMC to install additional jet fountains/ aerators of adequate capacity along the shoreline of Powai Lake i.e. near the mixing zone/confluence of untreated sewage with Lake water so as to aid in better aeration and to prevent septic/ anoxic conditions.

With respect to above point no. (V) steps taken by these Respondent BMC are as follows :-

There are jet fountain / aerators are installed inside Powai Lake in front of Ganeshghat immersion point installed by Ch.Eng.(WSP) department and at shoreline near Pawarwadi Immersion point work providing and installing musical fountain assembly is taken in hand by MHADA department under state government and NOC for the work is given by BMC's HE department with terms and conditions and it will be completed in 6 months.

(vi). After the rainy season, the BMC to initiate cleaning and de-silting of culverts and drains which are carrying untreated sewage into Powai Lake. As far as practically feasible, all the culverts and drains to be covered with pre-cast RCC slabs in order to prevent unauthorised disposal of solid waste and plastic waste etc.

With respect to above point no. (vi) steps taken by these Respondent BMC are as follows :-

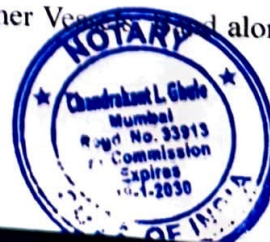
Cleaning and de-silting of culverts and SWD drains around powai lake are done on regular basic by SWD department and S-Ward. Assistant Commissioner S-Ward ensured that there is no unauthorised sewer connection carrying untreated sewage to culverts and SWD drains in the vicinity of powai lake. Also, SWD department and S-Ward staff ensured that the culverts and drains are covered with pre-cast RCC slabs in order to prevent unauthorised disposal of solid waste and plastic waste. ChE (Sewerage Project) department ensured that all sewer lines are carrying untreated sewage are underground and Rob holes are covered with CI covers.

(vii). The BMC to install trash net capture technologies consisting of:

⊙ Storm Drain Inlet Trash Capture Technologies - Curb Inlet Covers, Catch Basin Outlet Screens, Catch Basin Hoods, Catch Basin Fabric Inserts;

⊙ In-Line and End of Pipe Trash Capture Technologies - Linear Radial Devices, Hydrodynamic Separators, Netting Systems; and

⊙ Open Water Trash Capture Technologies - Litter Booms, Trash Skimmer Vessels, and along Litter Trap.



In view of the above, the BMC to explore and implement suitable trash net capture technologies, based on the feasibility assessment to prevent the influx of floating debris including solid waste and plastic waste etc. from entering Powai Lake.

With respect to above point no. (vii) steps taken by these Respondent BMC are as follows :-

To prevent the influx of floating debris including solid waste and plastic waste, Screen arrangement is proposed to the interceptors in Proposal-1.

(viii). It is observed that the BMC is disposing the removed water hyacinth from Powai Lake to low lying areas in Villages near Bhiwandi, and in Mumbra, Dist. Thane, for disposal through its authorized contractor. Instead of disposal in low lying areas, the BMC may explore the following prospects in terms of its reuse/recycle potential:

- ⌚ Water hyacinth for feeds - because of its nutritional value and potential use as feed for livestock, poultries, and fish, which make it suitable for use as a substitute or an additive for animal feeds.
- ⌚ Water Hyacinth for Biofertilisers- Water hyacinth can be either mulched, composted, vermicomposted or anaerobically digested for biofertilisation purposes.
- ⌚ Water Hyacinth in Crafts - Water hyacinth has great potential for use in craft production. Raw material from the dried plant and its fibre can be utilised to make bags, handbags, wallets, flower pots, fashion accessories, mats and many other items.
- ⌚ Water Hyacinth Conversion to Bioenergy - Biogas production through the anaerobic digestion and briquette production from water hyacinth biomass.

In view of the above, the BMC to explore and implement suitable methods, based on the feasibility assessment to reuse/recycle the harvested water hyacinth rather than disposing of it in low lying areas.

With respect to above point no. (viii) steps taken by these Respondent BMC are as follows :-

Hydraulic Engineer department- In this matter, HE department will make appeal in Print media & digital media for addressing public or scientist or those who are interested / having knowledge of assessment to reuse/recycle the harvested water hyacinth can contact the department. Further, after checking feasibility in this regard necessary decision will be made.

(ix). The BMC to expeditiously complete the works as proposed in Proposal-1 i.e. laying of sewer line of total length of 3,056 m & interceptors of 13 nos. and connectivity to the existing STPs at Bhandup and Mithi River. Also, to expeditiously complete the works as proposed in Proposal-2 i.e. laying of sewer line of total length of 1,909 m & interceptors of 09 nos. & its connectivity and commissioning of new STP at Powai abandoned sewage pumping station, including laying of discharge and treated sewage conveyance system for final disposal.

With respect to above point no. (ix) steps taken by these Respondent BMC are as follows :-



Remarks same as per point no 1 and point no 3 above.

(x). The BMC to expeditiously complete the works & commissioning of new STP at Bhandup.

With respect to above point no. (x) steps taken by these Respondent BMC are as follows :-

MSDP department undertaken work of construction of 215 MLD capacity WWTF plant at Bhandup which was started from 23.08.2022 and will be completed on 22.08.2026. Annexed herewith an Exhibit-C is copy of bar chart of STP Bhandup..

(xi). The BMC to ensure connectivity and dissemination of real time monitoring results of DO levels of Powai Lake at public domain i.e. website of BMC.

With respect to above point no. (xi) steps taken by these Respondent BMC are as follows :-

Hydraulic Engineer department– The real time results to DO levels of Powai Lake are available on BMC website at URL- www.dopowai.com

(xii). The BMC to ensure that no solid waste, religious offerings, food waste, plastic waste etc. is disposed into the Powai Lake including immersion of idols during festive occasion. Also, to regularly conduct public outreach programs through capacity building for communities near the Powai Lake and also at other areas of Mumbai City for abatement of pollution and conservation of Lakes.

With respect to above point no. (xii) steps taken by these Respondent BMC are as follows :-

Ch.Eng.(SWM) department and Assistant Commissioner (S Ward) office:- The BMC profoundly taking care of no solid waste, religious offerings, food waste, plastic waste etc. is disposed into the Powai Lake. At the time of Ganpati and durga festival idol immersion, idol up to 6 ft immersed in to artificial tank which is offered by bmc during festival season. Above 6ft idol immersed in to the lake which is retrieved in same night with the help of crane, boat and transported to designated site. In festival season special vehicle and NGO is deputed to collect nirmalya and all type of religious offerings comes along with idol. All type of such material is completely removed before the idols immersion and transported the unloading site. Ample number of nirmalya kalash and labour is deployed along lake on daily basis, where devotee offering nirmalya which is collected in nirmalya kalash, and cleaned surrounding area and transported to designated site. Also conducting regularly public awareness programme like street play, chitra Rath, display banner etc. at immersion spot and along lake to avoid any waste disposed to lake which will causes lake water pollution.

(xiii).The BMC to undertake beautification of Lake's shoreline for public use by the way of lake front development. Also, to install fencing around the Powai Lake in order to prevent unauthorized & lackadaisical entry of public including disposal of debris, solid waste and plastic waste etc. Further, the BMC to install signage boards in vernacular language at appropriate locations about DO's and DON'Ts for prevention of pollution and conservation of Powai Lake.

With respect to above point no. (xiii) steps taken by these Respondent BMC are as follows

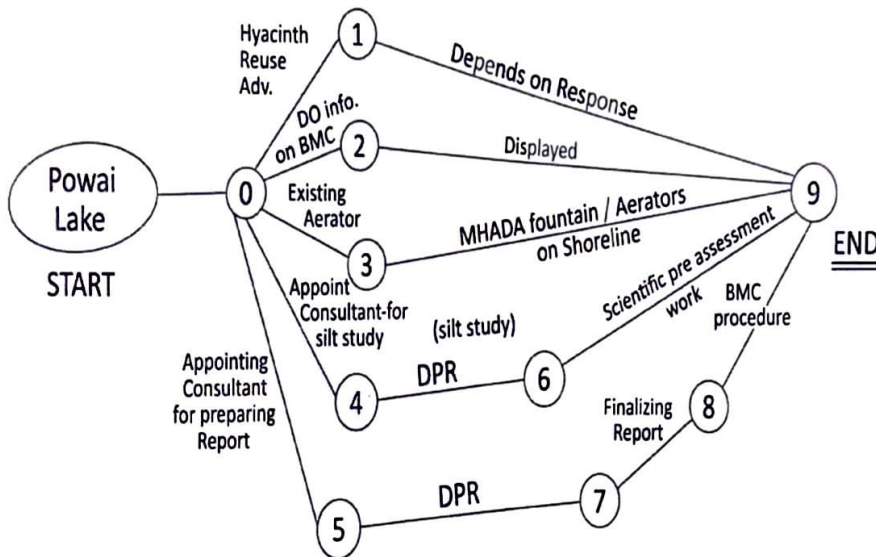


Hydraulic Engineer department– BMC is looking forward to undertake beautification of Lake's shoreline for public use by the way of lake front development. The procedure to appoint consultant for preparing DPR is in process.

(xiv). The BMC to submit a time bound action plan along with PERT chart for implementation of the remedial measures, as given above.”

With respect to above point no. (xiv) steps taken by these Respondent BMC are as follows:-

All activities of HE department in PERT chart is as following;



Details

- 1) PATH 0-1-9 = 03 Months
- 2) PATH 0-2-9 = Completed
- 3) PATH 0-3-9 = 06 Months
- 4) PATH 0-4-6-9 = 12 Months
- 5) PATH 0-5-7-8-9 = 12 Months



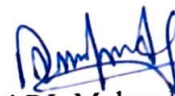
Solemnly affirmed at Mumbai
Dated this day of April 2026
Identified by me;

Respondent

Adv for Respondent


08-04-2026
Shri.S.N.Bhore

1. Deputy Municipal Commissioner
(Engineering)

 8/4/26.
Shri.P.L.Malwade
2. Deputy Municipal Commissioner
(Special Engineering)



VERIFICATION

We, 1) Mr. S.N.Bhore, Adult Indian Inhabitant of Mumbai, working as the Deputy Municipal Commissioner (Engineering) In the employment of the Respondent BMC, my office at BMC Worli hub building, near Acharya Atrre Chowk metro station, Worli naka, Mumbai and 2) Mr. P.L.Malwade, Adult Indian Inhabitant of Mumbai, working as the Deputy Municipal Commissioner (Special Engineering) In the employment of the Respondent BMC, having my office at the BMC head office, Annexe Building, 3rd floor, Mahanagarpalika Marg, CST, Mumbai 400001 we do hereby state on solemn affirmation as under:

Solemnly affirmed at Mumbai

Dated this day of April 2026

Identified by me

Adv for Respondent

Before me



Shri. S.N.Bhore
Deputy Municipal Commissioner
(Engineering)



Shri.P.L.Malwade
Deputy Municipal Commissioner
(Special Engineering)



Notary Book No. 8 Page No. 36
Sr. No. 378 Date 08/4/2026

BEFORE ME

C. L. GHULE
NOTARY
Government of India
Mumbai

- 8 APR 2026



Name of Work : Providing and Laying of different dia. Sewer pipe by Open cut & HDD method along with Interceptors for diversion of DWF along Powai Lake in 'S' Ward.

Contractor: M/s Swastik Constructions

Bar Chart Proposed Work

Proposed Date of Starting: 21.08.2025 Time Period : 18 Months (Excluding Monsoon)

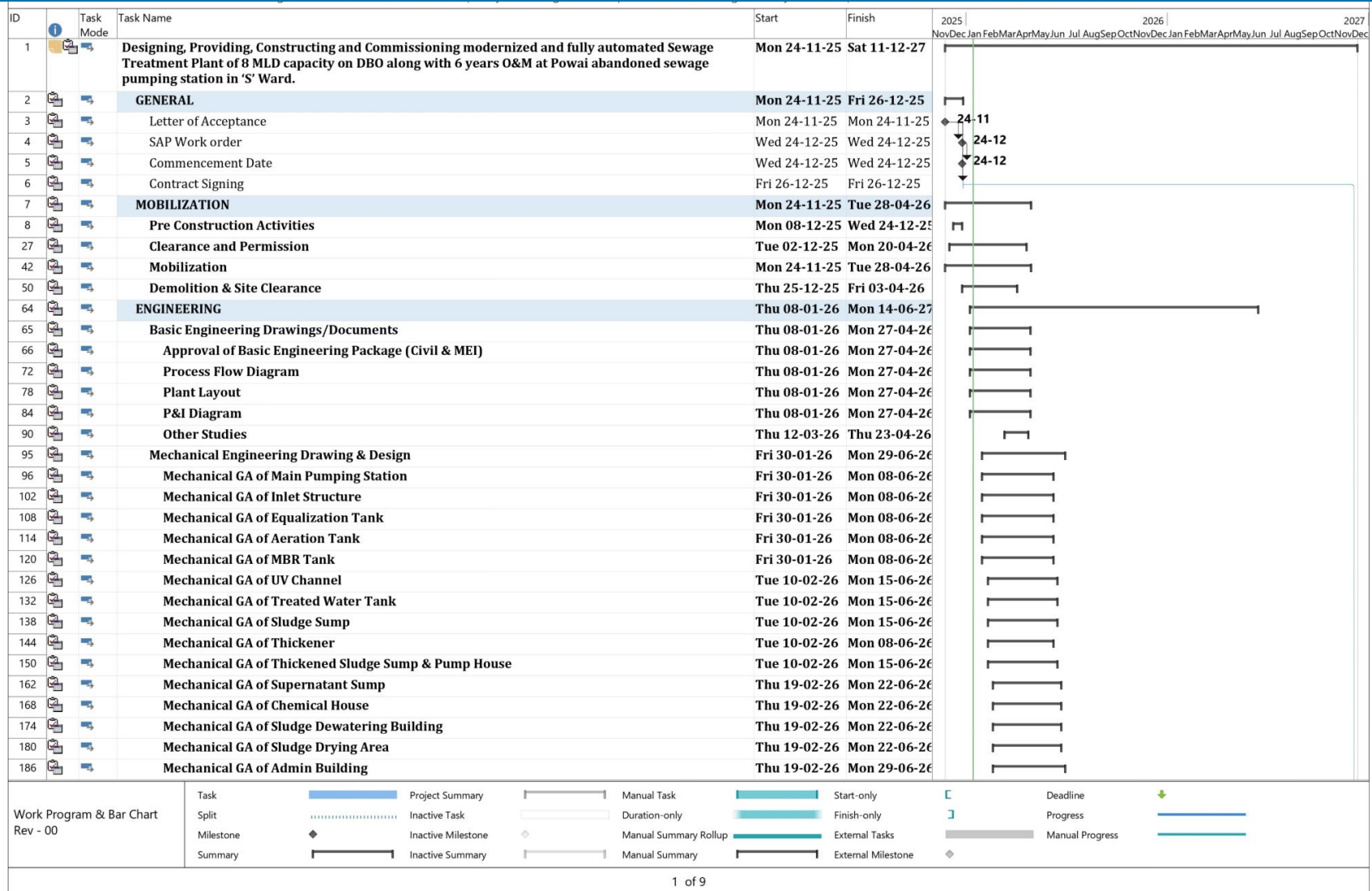
Activity	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27	Apr-27	May-27	Jun-27	Jul-27	Aug-27	Sep-27	Oct-27	Nov-27
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Site Office Setup/ Permission																												
Surveying & Soil Investigation																												
Permissions & Utility Marking																												
Mobilization of Machinery																												
Procurement & Safety Setup																												
Excavation for 300mm RCC line at Perubag Pumping Station																												
MS Shoring installation																												
Laying for Perubag Pumping - 300mm Line																												
Construction of Robohole at Perubag Pumping																												
Install 2 perubag pumping interceptor diversions																												
Reinstatement & Site Cleanup																												
Installation of HDD machinery for line from Gate 15 / 16 to Ex. Scrapper RH.																												
Excavation for Pit.																												
Laying of Sewer Line i.e Piloting, Reaming and Pipe jointing and pulling																												
Shoring and Construction of SRH / RH																												
Construction of 1 Interceptor Diversions and Installation of Gate																												
Reinstatement & Site Cleanup																												
Installation of HDD machinery for line from Gate 17 / 18 to Ex. Scrapper RH. (ITT B)																												
Excavation for Pit.																												
Laying of Sewer Line i.e Piloting, Reaming and Pipe jointing and pulling																												
Shoring and Construction of SRH / RH																												
Reinstatement & Site Cleanup																												
Installation of HDD machinery for 630mm Line from proposed STP to Gate 1																												
Excavation for Pit.																												
Laying of Sewer Line i.e Piloting, Reaming and Pipe jointing and pulling																												
Shoring and Construction of SRH / RH																												
Reinstatement & Site Cleanup																												
Installation of HDD machinery for 450mm Line from proposed STP to Gate 1																												
Excavation for Pit.																												
Laying of Sewer Line i.e Piloting, Reaming and Pipe jointing and pulling																												
Shoring and Construction of SRH / RH																												
Construction of 2 Interceptor Diversions and Installation of Gate																												
Reinstatement & Site Cleanup																												
Installation of HDD machinery for 355mm Line from proposed STP to Gate 1																												
Excavation for Pit.																												
Laying of Sewer Line i.e Piloting, Reaming and Pipe jointing and pulling																												
Shoring and Construction of SRH / RH																												
Construction of 2 Interceptor Diversions and Installation of Gate																												
Reinstatement & Site Cleanup																												
Installation of HDD machinery for 315mm Line from proposed STP to Gate 1																												
Excavation for Pit.																												
Laying of Sewer Line i.e Piloting, Reaming and Pipe jointing and pulling																												
Shoring and Construction of SRH / RH																												
Construction of 5 Interceptor Diversions and Installation of Gate																												
Reinstatement & Site Cleanup																												
Installation of HDD machinery for line from Gate 17 / 18 to Proposed STP																												
Excavation for Pit.																												
Laying of Sewer Line i.e Piloting, Reaming and Pipe jointing and pulling																												
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Construction of 1 Interceptor Diversions and Installation of Gate																												
Reinstatement & Site Cleanup																												

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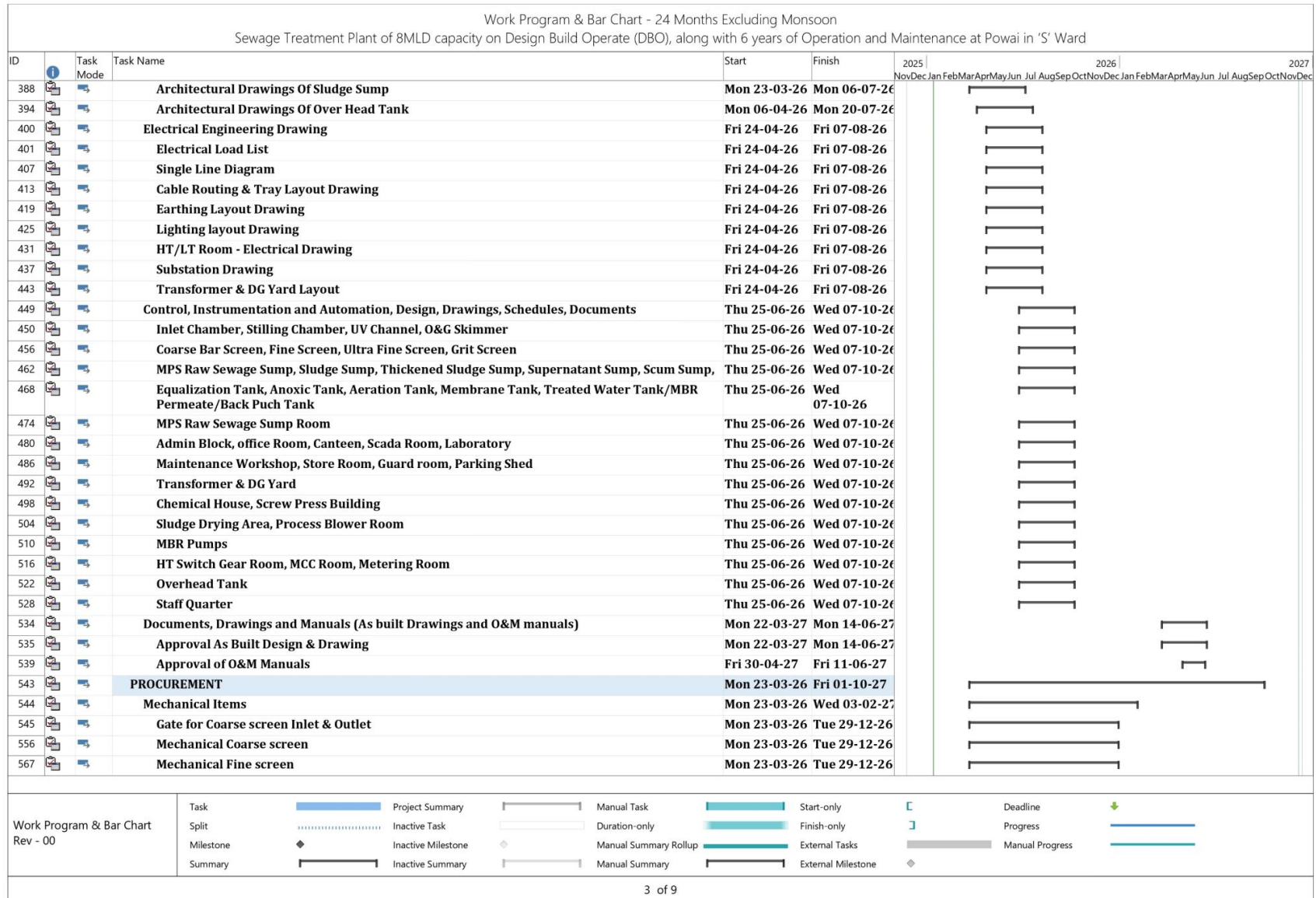
PROJECT SCHEDULE



Work Program & Bar Chart - 24 Months Excluding Monsoon															
Sewage Treatment Plant of 8MLD capacity on Design Build Operate (DBO), along with 6 years of Operation and Maintenance at Powai in 'S' Ward															
ID	Task Mode	Task Name	Start	Finish	2025				2026				2027		
					Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
192		Mechanical GA of Blower Building	Thu 19-02-26	Mon 29-06-26											
198		Mechanical GA of Workshop	Thu 19-02-26	Mon 29-06-26											
203		Mechanical GA of Over Head Tank	Thu 19-02-26	Mon 29-06-26											
209		Civil Engineering Drawings & Design	Fri 13-03-26	Fri 14-08-26											
210		RCC Details of Main Pumping Station	Fri 13-03-26	Fri 17-07-26											
216		RCC Details of Equalization Tank	Fri 13-03-26	Fri 17-07-26											
222		RCC Details of Inlet Structure	Fri 13-03-26	Fri 17-07-26											
228		RCC Details of Aeration Tank	Fri 13-03-26	Fri 17-07-26											
234		RCC Details of MBR Tank	Fri 13-03-26	Fri 24-07-26											
240		RCC Details of UV Channel	Mon 23-03-26	Tue 16-06-26											
246		RCC Details of Treated Water Tank	Mon 23-03-26	Fri 24-07-26											
252		RCC Details of Sludge Sump	Mon 23-03-26	Fri 24-07-26											
258		RCC Details of Thickener	Fri 13-03-26	Fri 24-07-26											
264		RCC Details of Thickened Sludge Sump & Pump House	Mon 23-03-26	Fri 31-07-26											
270		RCC Details of Supernatant Sump	Mon 30-03-26	Fri 31-07-26											
276		RCC Details of Chemical House	Mon 30-03-26	Fri 31-07-26											
282		RCC Details of Sludge Dewatering Building	Mon 30-03-26	Fri 31-07-26											
288		RCC Details of Sludge Drying Area	Mon 30-03-26	Fri 31-07-26											
294		RCC Details of Admin Building	Mon 06-04-26	Fri 07-08-26											
300		RCC Details of Blower Building	Mon 06-04-26	Fri 07-08-26											
306		RCC Details of Workshop	Mon 06-04-26	Fri 07-08-26											
312		RCC Details Over Head Tank	Mon 06-04-26	Fri 14-08-26											
318		RCC Details of Guard Room	Wed 22-04-26	Mon 27-07-26											
323		RCC Details of Staff Quarter	Wed 15-04-26	Wed 29-07-26											
329		RCC Details of Scada Room	Fri 24-04-26	Fri 07-08-26											
335		Architectural Engineering Drawings & Design	Mon 23-03-26	Wed 29-07-26											
336		Architectural Drawing of Guard Room	Wed 22-04-26	Mon 27-07-26											
341		Architectural Drawings Of Staff Quarters	Wed 15-04-26	Wed 29-07-26											
347		Architectural Drawings Of Admin Building	Mon 06-04-26	Mon 20-07-26											
353		Architectural Drawings Of Workshop	Mon 06-04-26	Thu 09-07-26											
358		Architectural Drawings Of HT/LT Room GA Drawing	Mon 13-04-26	Mon 27-07-26											
364		Architectural Drawings Of Substation Drawing	Mon 13-04-26	Mon 27-07-26											
370		Architectural Drawings Of Blower Building	Mon 06-04-26	Mon 20-07-26											
376		Architectural Drawings Of Sludge Dewatering Building	Mon 30-03-26	Mon 13-07-26											
382		Architectural Drawings Of Chemical House	Mon 30-03-26	Mon 13-07-26											

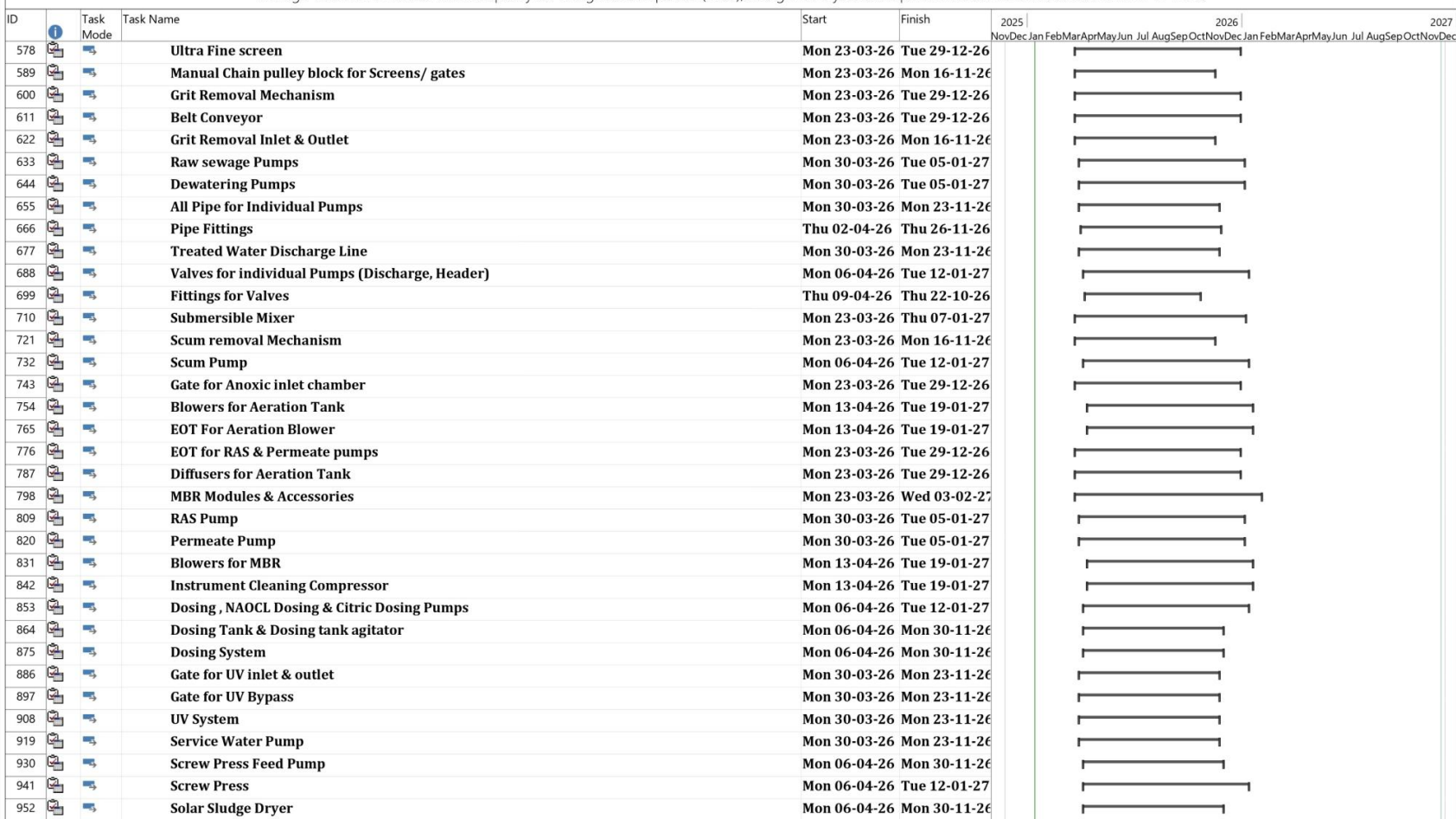
Work Program & Bar Chart Rev - 00	Task		Project Summary	Manual Task		Start-only	Deadline	
	Split		Inactive Task	Duration-only		Finish-only	Progress	
	Milestone		Inactive Milestone	Manual Summary Rollup		External Tasks	Manual Progress	
	Summary		Inactive Summary	Manual Summary		External Milestone		

2 of 9



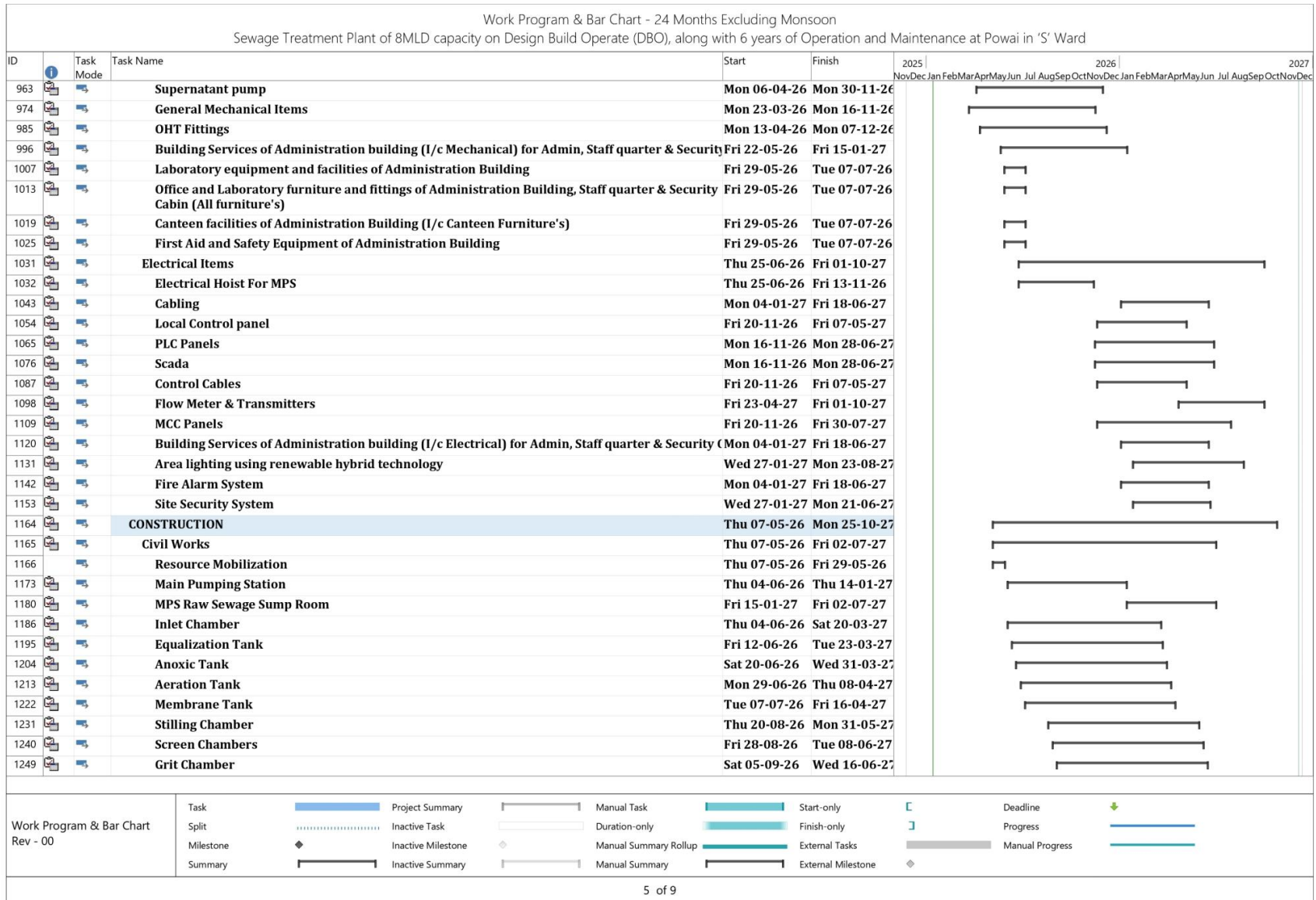
379

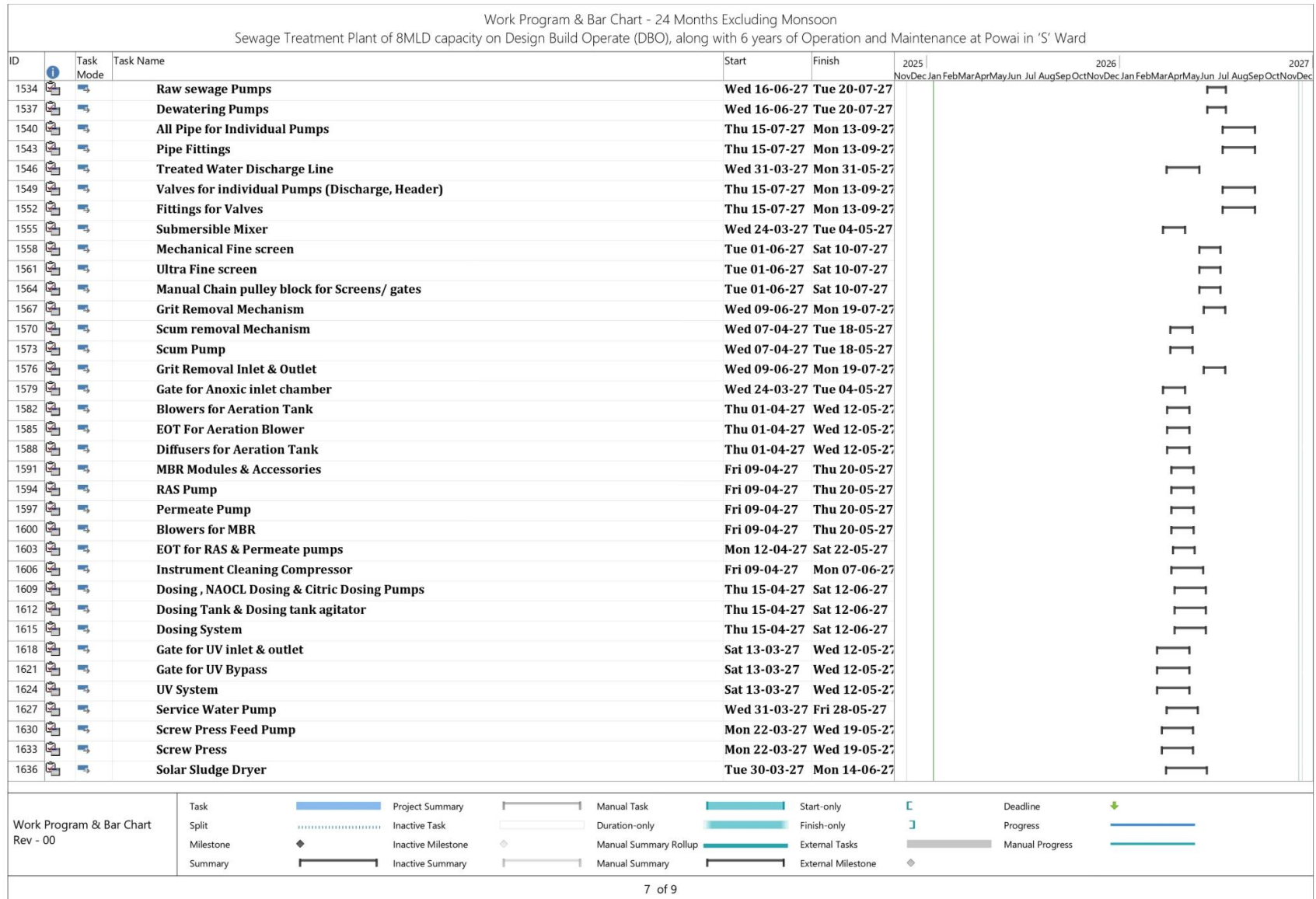
Work Program & Bar Chart - 24 Months Excluding Monsoon
 Sewage Treatment Plant of 8MLD capacity on Design Build Operate (DBO), along with 6 years of Operation and Maintenance at Powai in 'S' Ward



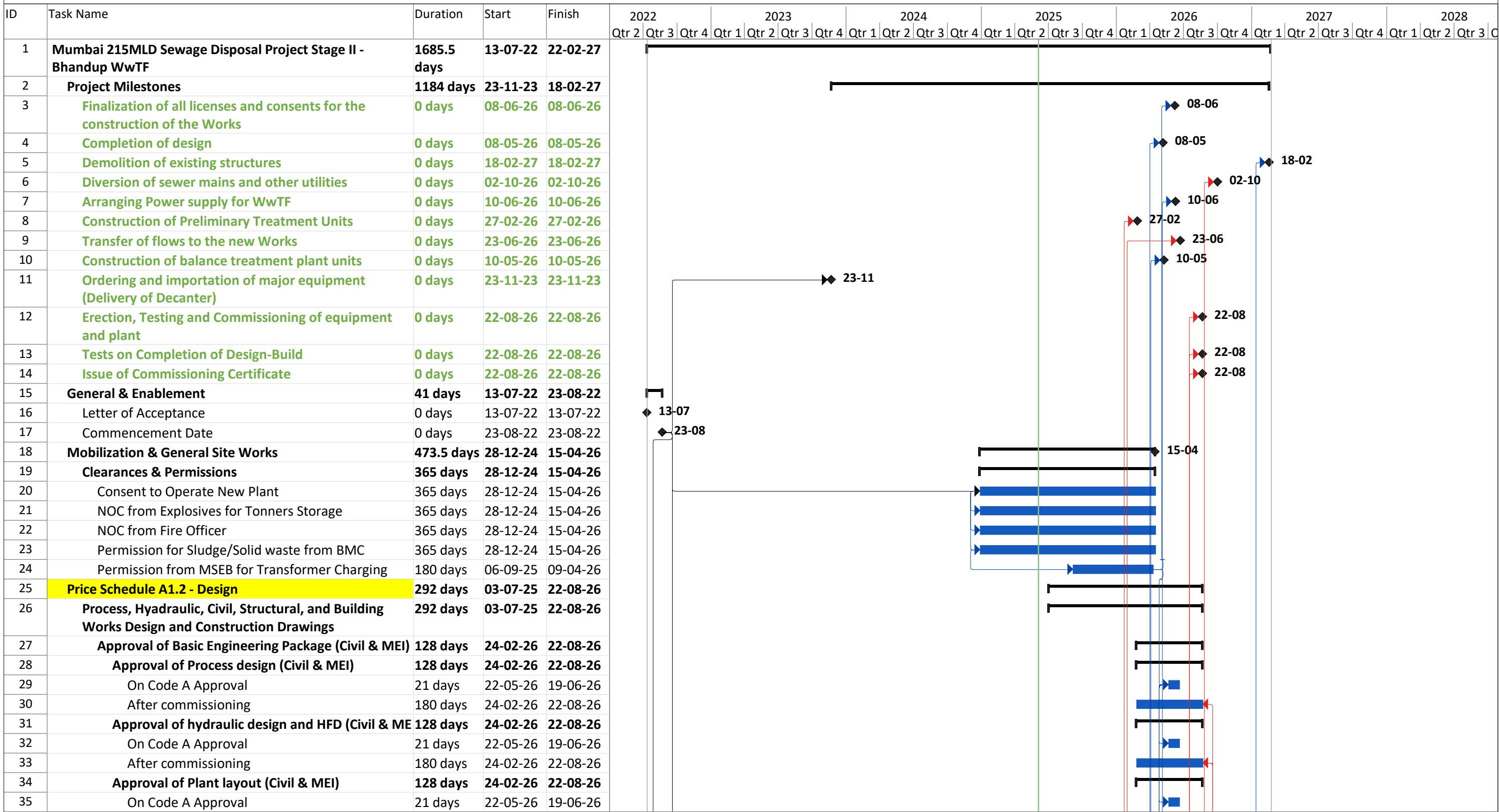
Work Program & Bar Chart
Rev - 00

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			





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Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

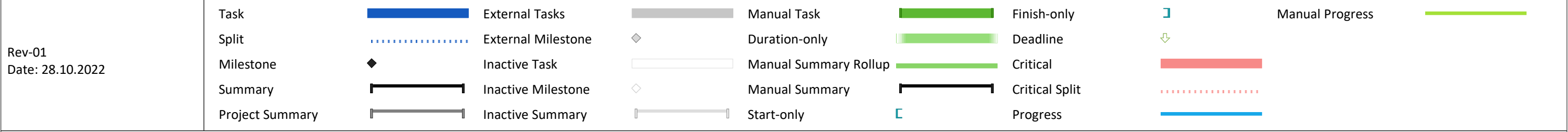
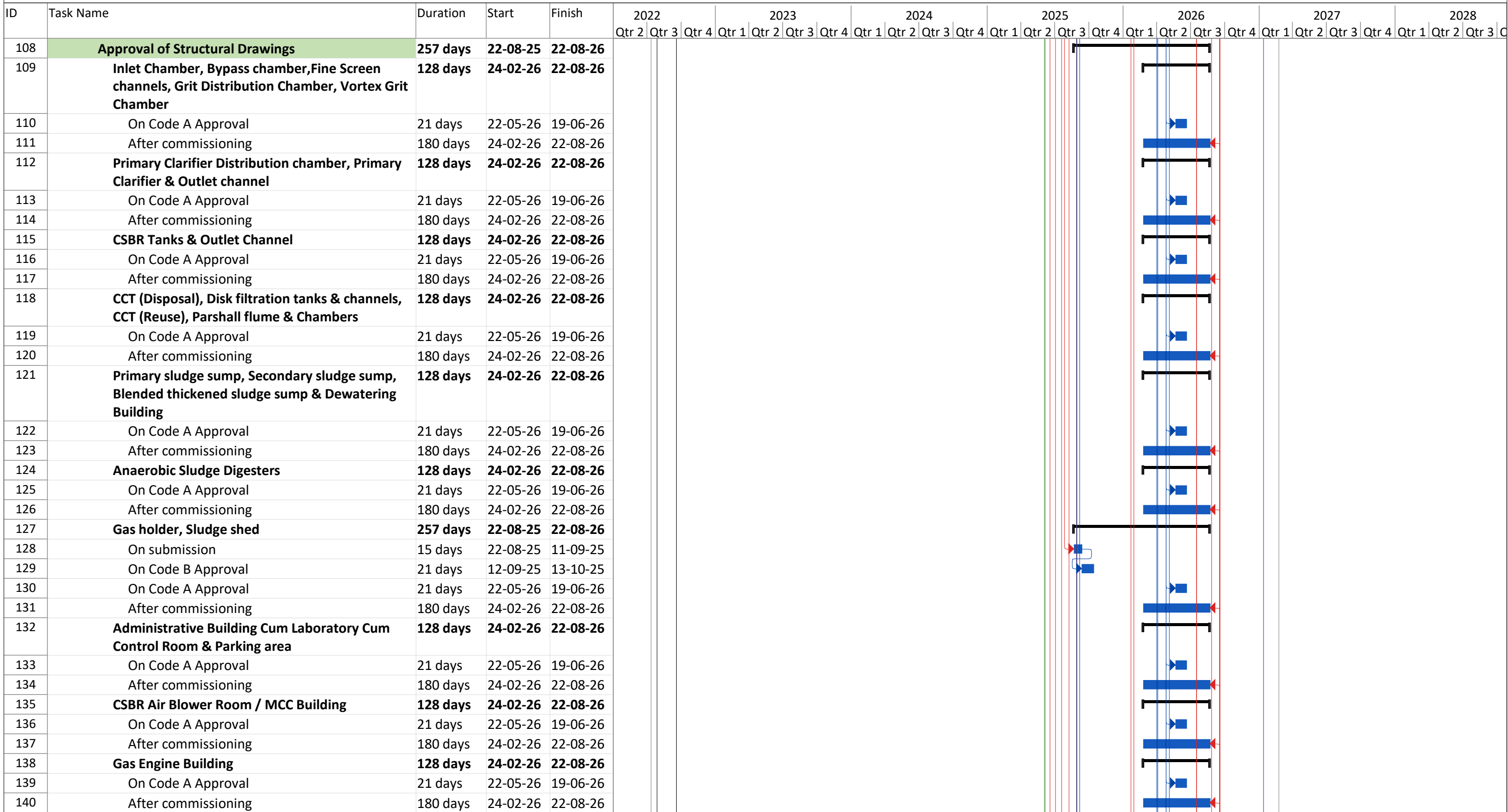
Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028			
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	
36	After commissioning	180 days	24-02-26	22-08-26																												
37	Approval of P&ID (MEI)	128 days	24-02-26	22-08-26																												
38	On Code A Approval	21 days	22-05-26	19-06-26																												
39	After commissioning	180 days	24-02-26	22-08-26																												
40	Approval of Mechanical GA /Architectural Drawings (Civil & MEI)	292 days	03-07-25	22-08-26																												
41	Inlet Chamber, Bypass chamber,Fine Screen channels, Grit Distribution Chamber, Vortex Grit Chamber (MEI)	128 days	24-02-26	22-08-26																												
42	On Code A Approval	21 days	22-05-26	19-06-26																												
43	After commissioning	180 days	24-02-26	22-08-26																												
44	Primary Clarifier Distribution chamber, Primary Clarifier & Outlet channel (MEI)	128 days	24-02-26	22-08-26																												
45	On Code A Approval	21 days	22-05-26	19-06-26																												
46	After commissioning	180 days	24-02-26	22-08-26																												
47	CSBR Tanks & Outlet Channel (MEI)	128 days	24-02-26	22-08-26																												
48	On Code A Approval	21 days	22-05-26	19-06-26																												
49	After commissioning	180 days	24-02-26	22-08-26																												
50	CCT (Disposal), Disk filtration tanks & channels, CCT (Reuse), Parshall flume & Chambers (MEI)	128 days	24-02-26	22-08-26																												
51	On Code A Approval	21 days	22-05-26	19-06-26																												
52	After commissioning	180 days	24-02-26	22-08-26																												
53	Primary sludge sump, Secondary sludge sump, Blended thickened sludge sump & Dewatering Building (MEI)	128 days	24-02-26	22-08-26																												
54	On Code A Approval	21 days	22-05-26	19-06-26																												
55	After commissioning	180 days	24-02-26	22-08-26																												
56	Anaerobic Sludge Digesters	128 days	24-02-26	22-08-26																												
57	On Code A Approval	21 days	22-05-26	19-06-26																												
58	After commissioning	180 days	24-02-26	22-08-26																												
59	Gas holder, Sludge shed (MEI)	292 days	03-07-25	22-08-26																												
60	On submission	7 days	03-07-25	11-07-25																												
61	On Code B Approval	21 days	14-07-25	11-08-25																												
62	On Code A Approval	21 days	22-05-26	19-06-26																												
63	After commissioning	180 days	24-02-26	22-08-26																												
64	Administrative Building Cum Laboratory Cum Control Room & Parking area (Civil)	128 days	24-02-26	22-08-26																												
65	On Code A Approval	21 days	22-05-26	19-06-26																												
66	After commissioning	180 days	24-02-26	22-08-26																												
67	CSBR Air Blower Room / MCC Building (Civil & ME)	128 days	24-02-26	22-08-26																												

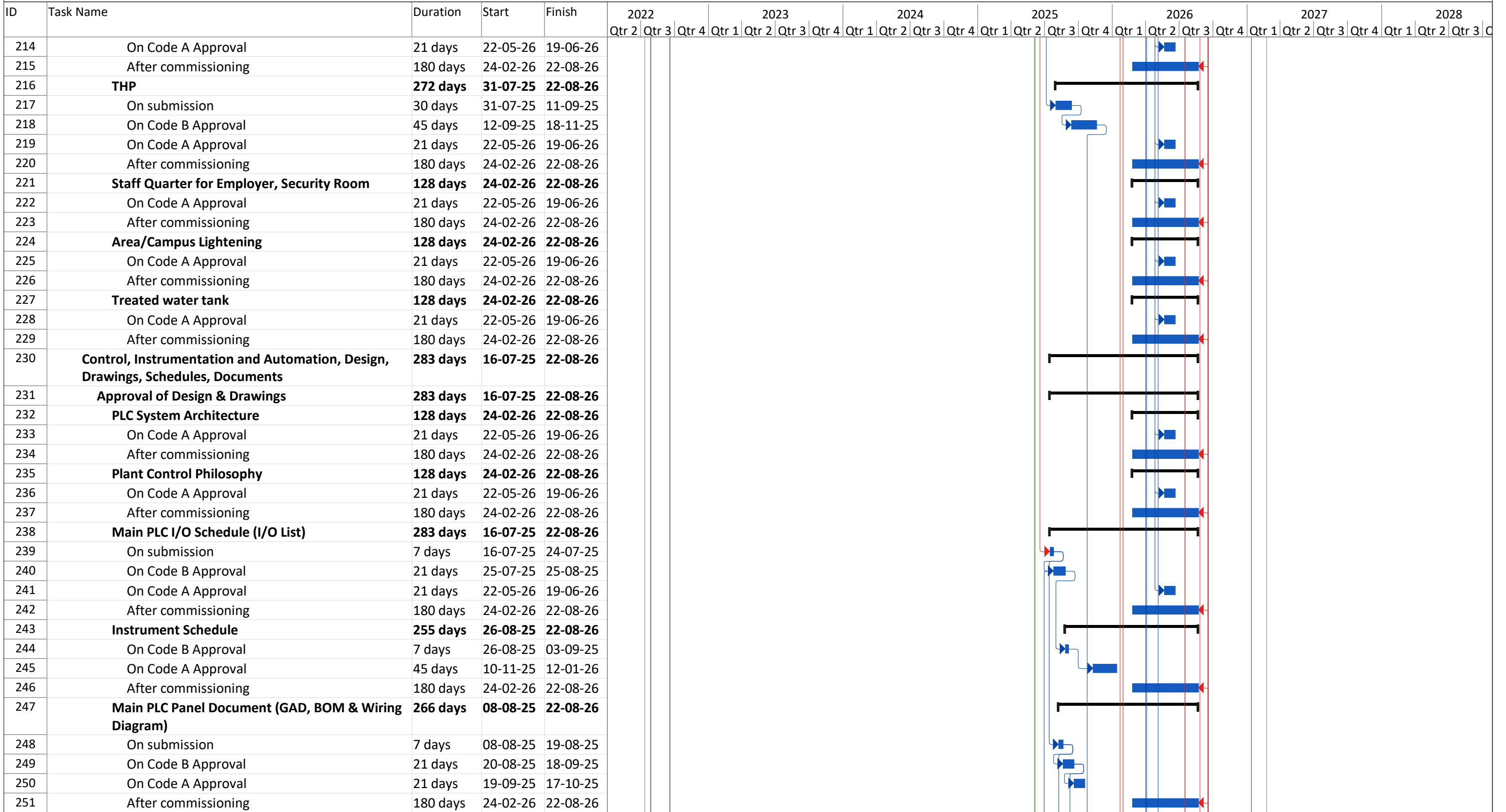
Rev-01
Date: 28.10.2022

Task		External Tasks		Manual Task		Finish-only		Manual Progress	
Split		External Milestone		Duration-only		Deadline			
Milestone		Inactive Task		Manual Summary Rollup		Critical			
Summary		Inactive Milestone		Manual Summary		Critical Split			
Project Summary		Inactive Summary		Start-only		Progress			

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF



Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF



Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028			
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	
356	On completion of testing & commissioning	33 days	21-07-26	22-08-26																												
357	Civil Works of Grit Removal (I/c Vortex Grit Chamber)	333.5 days	12-05-25	22-08-26																												
358	On Completion of RCC Column upto bottom slab	40 days	12-05-25	08-07-25																												
359	On Completion of RCC Bottom slab	25 days	09-07-25	03-09-25																												
360	On Completion of RCC structure upto half height	30 days	03-09-25	09-10-25																												
361	On Completion of RCC structure upto full height incl. walkway etc.	45 days	09-10-25	03-12-25																												
362	On completion of finishing works like Interior & Exterior Painting, Railing etc.	30 days	23-01-26	27-02-26																												
363	After Hydraulic Testing	30 days	11-12-25	15-01-26																												
364	After Commissioning	120 days	25-04-26	22-08-26																												
365	Mechanical Works of Grit Removal (I/c Vortex Grit Chamber)	124.5 days	27-02-26	22-08-26																												
366	Vortex Drive with bull gear	124.5 days	27-02-26	22-08-26																												
367	On completion of Installation	15 days	27-02-26	17-03-26																												
368	On completion of testing & commissioning	120 days	25-04-26	22-08-26																												
369	Grit Classifiers	124.5 days	27-02-26	22-08-26																												
370	On completion of Installation	15 days	27-02-26	17-03-26																												
371	On completion of testing & commissioning	120 days	25-04-26	22-08-26																												
372	Grit Transfer Pumps	124.5 days	27-02-26	22-08-26																												
373	On completion of Installation	15 days	27-02-26	17-03-26																												
374	On completion of testing & commissioning	120 days	25-04-26	22-08-26																												
375	Sluice Gates	124.5 days	27-02-26	22-08-26																												
376	On completion of Installation	15 days	27-02-26	17-03-26																												
377	On completion of testing & commissioning	120 days	25-04-26	22-08-26																												
378	Electrical Works of Grit Removal (I/c Vortex Grit Chamber)	278 days	23-07-25	22-08-26																												
379	Actuators for Sluice gates	124.5 days	27-02-26	22-08-26																												
380	On completion of Installation	7 days	27-02-26	07-03-26																												
381	On completion of testing & commissioning	120 days	25-04-26	22-08-26																												
382	Local Control Panel (LCP)	118.5 days	09-03-26	22-08-26																												
383	On completion of Installation	3 days	09-03-26	12-03-26																												
384	On completion of testing & commissioning	120 days	25-04-26	22-08-26																												
385	Cabling	278 days	23-07-25	22-08-26																												
386	Submission of QAP, drawings & datasheets	15 days	23-07-25	12-08-25																												
387	Approval of QAP, drawings & datasheets	45 days	13-08-25	16-10-25																												
388	Inspection Call	7 days	30-10-25	06-11-25																												
389	Inspection Completion	3 days	08-12-25	10-12-25																												
390	On delivery at site	7 days	15-12-25	22-12-25																												
391	On completion of Installation	15 days	03-03-26	19-03-26																												

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028							
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4					
427	On completion of Installation	15 days	10-07-26	13-08-26																																
428	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
429	Airconditioners & Exhaust fans for Staff Quarter	128 days	24-02-26	22-08-26																																
430	On delivery at site	40 days	23-05-26	09-07-26																																
431	On completion of Installation	15 days	10-07-26	13-08-26																																
432	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
433	Exhaust fans for Other Buildings	128 days	24-02-26	22-08-26																																
434	On delivery at site	40 days	23-05-26	09-07-26																																
435	On completion of Installation	15 days	10-07-26	13-08-26																																
436	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
437	Electrical Works of Ventilation (I/c Air conditioning & Exhaust)	278 days	23-07-25	22-08-26																																
438	Cabling	278 days	23-07-25	22-08-26																																
439	Submission of QAP, drawings & datasheets	15 days	23-07-25	12-08-25																																
440	Approval of QAP, drawings & datasheets	45 days	13-08-25	16-10-25																																
441	Inspection Call	7 days	17-10-25	25-10-25																																
442	Inspection Completion	3 days	27-10-25	29-10-25																																
443	On delivery at site	40 days	30-10-25	16-12-25																																
444	On completion of Installation	60 days	17-12-25	24-02-26																																
445	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
446	Instrumentation, Control and Automation	263 days	13-08-25	22-08-26																																
447	Real Time Analysers	263 days	13-08-25	22-08-26																																
448	Submission of QAP, drawings & datasheets	7 days	13-08-25	22-08-25																																
449	Approval of QAP, drawings & datasheets	45 days	25-08-25	28-10-25																																
450	Inspection Call	7 days	12-02-26	19-02-26																																
451	Inspection Completion	3 days	28-02-26	03-03-26																																
452	On delivery at site	21 days	04-03-26	27-03-26																																
453	On completion of Installation	15 days	01-04-26	20-04-26																																
454	On completion of testing & commissioning	120 days	25-04-26	22-08-26																																
455	Price Schedule A1.4 – Primary Treatment	392.5 days	01-03-25	22-08-26																																
456	Civil Works of Primary Settling Tanks (I/c Primary Clarifier Clari-Tube Settler)	291.5 days	14-07-25	22-08-26																																
457	Civil Works of Primary Clarifier1	291.5 days	14-07-25	22-08-26																																
458	On Completion of RCC structure upto Half height	20 days	14-07-25	29-08-25																																
459	On Completion of RCC structure upto 3/4th height	20 days	30-08-25	24-09-25																																
460	On Completion of RCC structure upto full height incl. Walkway etc.	30 days	24-09-25	30-10-25																																
461	On completion of finishing works like Interior & Exterior Painting, Railing etc.	45 days	22-12-25	12-02-26																																
462	After Hydraulic Testing	30 days	07-11-25	13-12-25																																

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Task		External Tasks		Manual Task		Finish-only		Manual Progress	
Split		External Milestone		Duration-only		Deadline			
Milestone		Inactive Task		Manual Summary Rollup		Critical			
Summary		Inactive Milestone		Manual Summary		Critical Split			
Project Summary		Inactive Summary		Start-only		Progress			

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Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028									
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4						
569	On completion of Installation	15 days	31-12-25	16-01-26																																		
570	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																		
571	Instrumentation, Control and Automation	294.5 days	30-06-25	22-08-26																																		
572	Flow Meter at Parshall Flume before primary	294.5 days	30-06-25	22-08-26																																		
573	Submission of QAP, drawings & datasheets	15 days	30-06-25	21-07-25																																		
574	Approval of QAP, drawings & datasheets	45 days	21-07-25	24-09-25																																		
575	Inspection Call	70 days	26-09-25	19-12-25																																		
576	Inspection Completion	7 days	19-12-25	27-12-25																																		
577	On delivery at site	10 days	27-12-25	08-01-26																																		
578	On completion of Installation	15 days	26-01-26	12-02-26																																		
579	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																		
580	Main PLC Panel	284.5 days	14-07-25	22-08-26																																		
581	Submission of QAP, drawings & datasheets	15 days	14-07-25	04-08-25																																		
582	Approval of QAP, drawings & datasheets	45 days	04-08-25	08-10-25																																		
583	Inspection Call	60 days	08-10-25	19-12-25																																		
584	Inspection Completion	3 days	19-12-25	23-12-25																																		
585	On delivery at site	40 days	23-12-25	07-02-26																																		
586	On completion of Installation	15 days	16-02-26	05-03-26																																		
587	On completion of testing & commissioning	120 days	25-04-26	22-08-26																																		
588	Control Cables	278 days	23-07-25	22-08-26																																		
589	Submission of QAP, drawings & datasheets	15 days	23-07-25	12-08-25																																		
590	Approval of QAP, drawings & datasheets	45 days	13-08-25	16-10-25																																		
591	Inspection Call	40 days	17-10-25	04-12-25																																		
592	Inspection Completion	2 days	13-12-25	15-12-25																																		
593	On delivery at site	7 days	16-12-25	23-12-25																																		
594	On completion of Installation	15 days	10-01-26	27-01-26																																		
595	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																		
596	Price Schedule A1.5 (a) – Secondary Treatment (Creek Discharge Standard Treatment)	452.5 days	21-12-24	22-08-26																																		
597	Civil Works of Secondary Treatment Tanks (CSBR) and Blower Building	452.5 days	21-12-24	22-08-26																																		
598	Civil Works of Continuous Sequential Batch Reactor (CSBR) Tank1 (I/c Cells, RAS, Anoxic, Anaerobic & Aerobic)	452.5 days	21-12-24	22-08-26																																		
599	On Completion of RCC structure upto Half height	120 days	21-12-24	12-05-25																																		
600	On Completion of RCC structure upto 3/4th height	70 days	01-03-25	23-05-25																																		
601	On Completion of RCC structure upto full height incl. openings, walkway & staircase	120 days	19-03-25	17-09-25																																		
602	On completion of finishing works like Internal & External Painting, Railing etc.	45 days	15-12-25	05-02-26																																		

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress
	Split		External Milestone		Duration-only		Deadline		
	Milestone		Inactive Task		Manual Summary Rollup		Critical		
	Summary		Inactive Milestone		Manual Summary		Critical Split		
	Project Summary		Inactive Summary		Start-only		Progress		

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022		2023				2024				2025				2026				2027				2028								
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
603	After Hydraulic Testing	45 days	04-10-25	28-11-25																															
604	After Commissioning	180 days	24-02-26	22-08-26																															
605	Civil Works of Continuous Sequential Batch Reactor (CSBR) Tank2 (I/c Cells, RAS, Anoxic, Anaerobic & Aerobic)	432.5 days	14-01-25	22-08-26																															
606	On Completion of RCC structure upto Half height	150 days	14-01-25	02-08-25																															
607	On Completion of RCC structure upto 3/4th height	150 days	31-01-25	04-09-25																															
608	On Completion of RCC structure upto full height incl. openings, walkway & staircase	70 days	22-09-25	15-12-25																															
609	On completion of finishing works like Internal & External Painting, Railing etc.	45 days	23-12-25	13-02-26																															
610	After Hydraulic Testing	60 days	04-10-25	16-12-25																															
611	After Commissioning	180 days	24-02-26	22-08-26																															
612	Civil Works of Continuous Sequential Batch Reactor (CSBR) Tank3 (I/c Cells, RAS, Anoxic, Anaerobic & Aerobic)	325.5 days	21-05-25	22-08-26																															
613	On Completion of RCC Foundation / Raft	30 days	21-05-25	03-07-25																															
614	On Completion of RCC structure upto 1/4th height	30 days	18-09-25	23-10-25																															
615	On Completion of RCC structure upto Half height	45 days	04-10-25	28-11-25																															
616	On Completion of RCC structure upto 3/4th height	45 days	21-10-25	15-12-25																															
617	On Completion of RCC structure upto full height incl. openings, walkway & staircase	60 days	07-11-25	17-01-26																															
618	On completion of finishing works like Internal & External Painting, Railing etc.	30 days	27-03-26	04-05-26																															
619	After Hydraulic Testing	45 days	26-01-26	19-03-26																															
620	After Commissioning	90 days	25-05-26	22-08-26																															
621	Civil Works of Continuous Sequential Batch Reactor (CSBR) Tank4 (I/c Cells, RAS, Anoxic, Anaerobic & Aerobic)	181.5 days	17-12-25	22-08-26																															
622	On Completion of RCC structure upto 1/4th height	21 days	17-12-25	10-01-26																															
623	On Completion of RCC structure upto Half height	30 days	25-12-25	29-01-26																															
624	On Completion of RCC structure upto 3/4th height	43 days	02-01-26	21-02-26																															
625	On Completion of RCC structure upto full height incl. openings, walkway & staircase	60 days	10-01-26	21-03-26																															
626	On completion of finishing works like Internal & External Painting, Railing etc.	21 days	23-06-26	10-08-26																															
627	After Hydraulic Testing	60 days	30-03-26	10-06-26																															
628	After Commissioning	90 days	25-05-26	22-08-26																															
629	Civil Works of Chlorination Contact Tank (CCT) - Disposal	322.5 days	24-05-25	22-08-26																															
630	On Completion of RCC structure upto 1/4th height	31 days	24-05-25	12-07-25																															

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Task		External Tasks		Manual Task		Finish-only		Manual Progress	
Split		External Milestone		Duration-only		Deadline			
Milestone		Inactive Task		Manual Summary Rollup		Critical			
Summary		Inactive Milestone		Manual Summary		Critical Split			
Project Summary		Inactive Summary		Start-only		Progress			

Project Schedule dates are subject to Engineering and Design and actual progress,

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028					
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3			
706	On completion of Installation	15 days	09-10-25	28-10-25																														
707	On completion of testing & commissioning	180 days	24-02-26	22-08-26																														
708	Motor for Blowers - 2 Nos	211.5 days	28-10-25	22-08-26																														
709	On completion of Installation	15 days	28-10-25	15-11-25																														
710	On completion of testing & commissioning	180 days	24-02-26	22-08-26																														
711	MCC Panel (VFD for Blowers)	220.5 days	14-10-25	22-08-26																														
712	On completion of Installation	14 days	14-10-25	31-10-25																														
713	On completion of testing & commissioning	180 days	24-02-26	22-08-26																														
714	Cabling	278 days	23-07-25	22-08-26																														
715	Submission of QAP, drawings & datasheets	7 days	23-07-25	31-07-25																														
716	Approval of QAP, drawings & datasheets	30 days	01-08-25	12-09-25																														
717	Inspection Call	45 days	13-09-25	06-11-25																														
718	Inspection Completion	3 days	17-11-25	19-11-25																														
719	On delivery at site	25 days	20-11-25	18-12-25																														
720	On completion of Installation	60 days	29-01-26	10-04-26																														
721	On completion of testing & commissioning	120 days	25-04-26	22-08-26																														
722	Mechanical Works of Return Sludge and WAS Pumping (I/c Return Water Sump)	294.5 days	30-06-25	22-08-26																														
723	RAS Pumps	204 days	07-11-25	22-08-26																														
724	Inspection Call	7 days	07-11-25	15-11-25																														
725	Inspection Completion	7 days	17-11-25	24-11-25																														
726	On delivery at site	30 days	25-11-25	29-12-25																														
727	On completion of Installation	15 days	16-04-26	02-05-26																														
728	On completion of testing & commissioning	90 days	25-05-26	22-08-26																														
729	Valves	294.5 days	30-06-25	22-08-26																														
730	Submission of QAP, drawings & datasheets	7 days	30-06-25	09-07-25																														
731	Approval of QAP, drawings & datasheets	30 days	09-07-25	21-08-25																														
732	Inspection Call	30 days	21-08-25	26-09-25																														
733	Inspection Completion	3 days	26-09-25	30-09-25																														
734	On delivery at site	30 days	30-09-25	05-11-25																														
735	On completion of Installation	7 days	21-05-26	28-05-26																														
736	On completion of testing & commissioning	80 days	04-06-26	22-08-26																														
737	Electric Hoists	241.5 days	12-09-25	22-08-26																														
738	On delivery at site	7 days	12-09-25	22-09-25																														
739	On completion of Installation	13.5 days	22-09-25	07-10-25																														
740	On completion of testing & commissioning	180 days	24-02-26	22-08-26																														
741	Electrical Works of Return Sludge and WAS Pumping (I/c Return Water Sump)	278 days	23-07-25	22-08-26																														
742	Control Panel	208.5 days	31-10-25	22-08-26																														
743	Inspection Call	7 days	31-10-25	08-11-25																														

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

Project Schedule dates are subject to Engineering and Design and actual progress,

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ID	Task Name	Duration	Start	Finish	2022			2023				2024				2025				2026				2027				2028					
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
744	Inspection Completion	3 days	18-11-25	21-11-25																													
745	On delivery at site	40 days	21-11-25	07-01-26																													
746	On completion of Installation	7 days	14-02-26	23-02-26																													
747	On completion of testing & commissioning	180 days	24-02-26	22-08-26																													
748	Cabling	278 days	23-07-25	22-08-26																													
749	Submission of QAP, drawings & datasheets	7 days	23-07-25	31-07-25																													
750	Approval of QAP, drawings & datasheets	30 days	01-08-25	12-09-25																													
751	Inspection Call	30 days	13-09-25	18-10-25																													
752	Inspection Completion	3 days	29-10-25	31-10-25																													
753	On delivery at site	30 days	01-11-25	06-12-25																													
754	On completion of Installation	35 days	23-02-26	06-04-26																													
755	On completion of testing & commissioning	120 days	25-04-26	22-08-26																													
756	Instrumentation, Control and Automation	294.5 days	30-06-25	22-08-26																													
757	Flow Meters cum Transmitters	294.5 days	30-06-25	22-08-26																													
758	Submission of QAP, drawings & datasheets	7 days	30-06-25	09-07-25																													
759	Approval of QAP, drawings & datasheets	45 days	09-07-25	11-09-25																													
760	Inspection Call	30 days	11-09-25	17-10-25																													
761	Inspection Completion	3 days	27-10-25	30-10-25																													
762	On delivery at site	40 days	30-10-25	17-12-25																													
763	On completion of Installation	15 days	25-02-26	14-03-26																													
764	On completion of testing & commissioning	120 days	25-04-26	22-08-26																													
765	DO Sensors	294.5 days	30-06-25	22-08-26																													
766	Submission of QAP, drawings & datasheets	15 days	30-06-25	21-07-25																													
767	Approval of QAP, drawings & datasheets	45 days	21-07-25	24-09-25																													
768	Inspection Call	30 days	24-09-25	30-10-25																													
769	Inspection Completion	3 days	07-11-25	11-11-25																													
770	On delivery at site	40 days	11-11-25	29-12-25																													
771	On completion of Installation	15 days	09-03-26	26-03-26																													
772	On completion of testing & commissioning	120 days	25-04-26	22-08-26																													
773	PLC Panels (CSBR)	220.5 days	14-10-25	22-08-26																													
774	On completion of Installation	25 days	14-10-25	13-11-25																													
775	On completion of testing & commissioning	180 days	24-02-26	22-08-26																													
776	Control Cables	278 days	23-07-25	22-08-26																													
777	Submission of QAP, drawings & datasheets	7 days	23-07-25	31-07-25																													
778	Approval of QAP, drawings & datasheets	30 days	01-08-25	12-09-25																													
779	Inspection Call	40 days	13-09-25	31-10-25																													
780	Inspection Completion	3 days	10-11-25	12-11-25																													
781	On delivery at site	30 days	13-11-25	18-12-25																													
782	On completion of Installation	45 days	29-01-26	21-03-26																													
783	On completion of testing & commissioning	120 days	25-04-26	22-08-26																													

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Task	External Tasks	Manual Task	Finish-only	Manual Progress
Split	External Milestone	Duration-only	Deadline	
Milestone	Inactive Task	Manual Summary Rollup	Critical	
Summary	Inactive Milestone	Manual Summary	Critical Split	
Project Summary	Inactive Summary	Start-only	Progress	

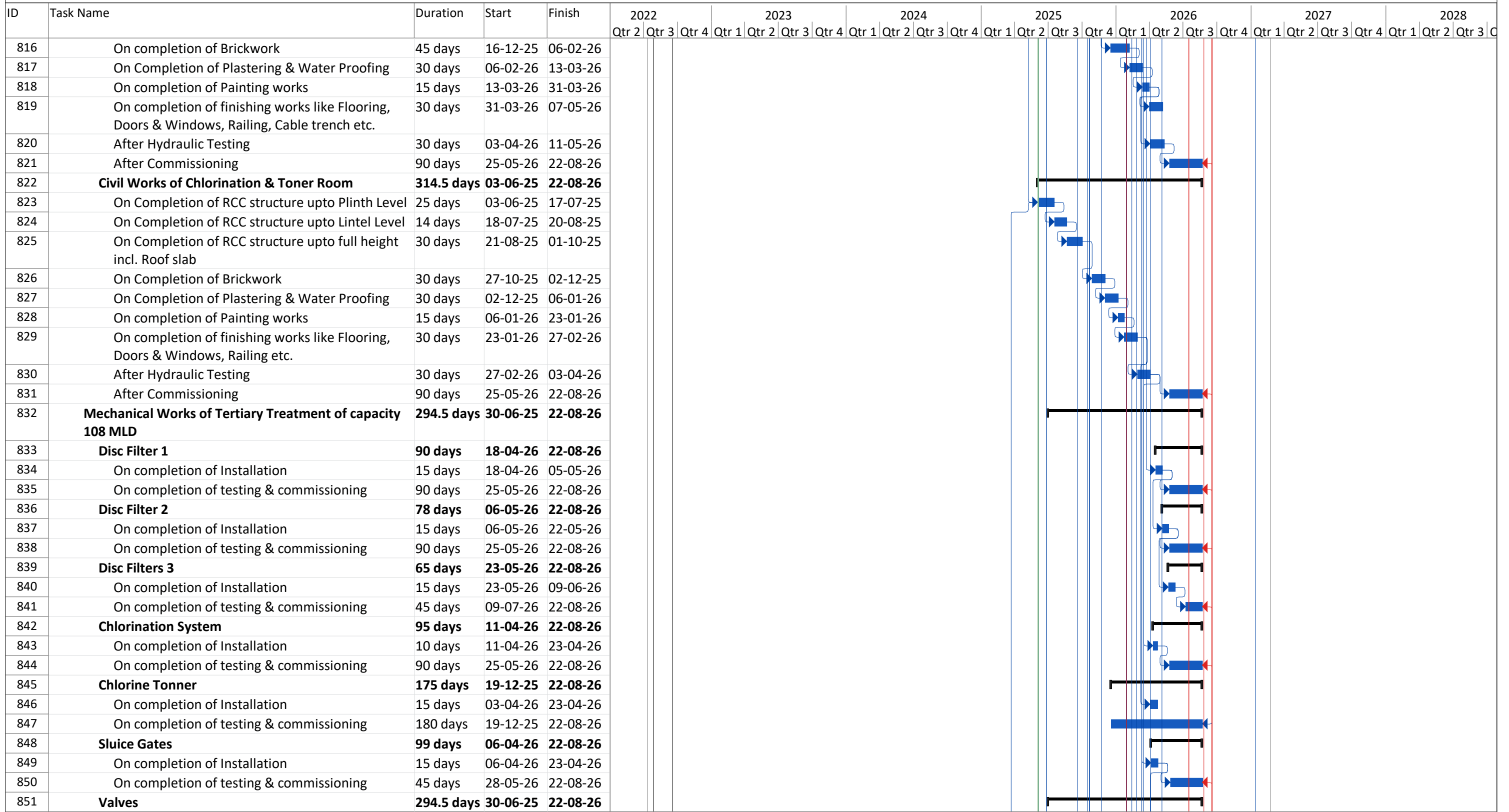
Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028									
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4							
784	Price Schedule A1.5 (b) – Tertiary Treatment (Effluent for Re-Use Standard Treatment)	314.5 days	03-06-25	22-08-26																																		
785	Civil Works of Tertiary Treatment of capacity 108 MLD	314.5 days	03-06-25	22-08-26																																		
786	Civil Works of Disk Filtration Tanks	266 days	06-09-25	22-08-26																																		
787	On completion of Pile breaking & PCC	45 days	06-09-25	30-10-25																																		
788	On Completion of RCC Foundation / Raft	21 days	31-10-25	25-11-25																																		
789	On Completion of RCC structure upto 1/4th height	14 days	26-11-25	11-12-25																																		
790	On Completion of RCC structure upto Half height	35 days	04-12-25	13-01-26																																		
791	On Completion of RCC structure upto 3/4th height	25 days	12-12-25	09-01-26																																		
792	On Completion of RCC structure upto full height incl. roofing	35 days	10-01-26	19-02-26																																		
793	On completion of finishing works like Internal & External Painting, Railing etc.	30 days	15-04-26	19-05-26																																		
794	After Hydraulic Testing	30 days	28-02-26	03-04-26																																		
795	After Commissioning	90 days	25-05-26	22-08-26																																		
796	Civil Works of Chlorination Contact Tank (CCT) - Reu	284.5 days	30-07-25	22-08-26																																		
797	On Completion of RCC structure upto 1/4th height	21 days	30-07-25	09-09-25																																		
798	On Completion of RCC structure upto Half height	25 days	16-08-25	23-09-25																																		
799	On Completion of RCC structure upto 3/4th height	30 days	23-09-25	29-10-25																																		
800	On Completion of RCC structure upto full height incl. walkway etc.	45 days	29-10-25	22-12-25																																		
801	On completion of finishing works like Internal & External Painting, Railing etc.	30 days	11-02-26	18-03-26																																		
802	After Hydraulic Testing	30 days	30-12-25	03-02-26																																		
803	After Commissioning	90 days	25-05-26	22-08-26																																		
804	Civil Works of Treated Water Tank	284.5 days	30-07-25	22-08-26																																		
805	On Completion of RCC structure upto 1/4th height	21 days	30-07-25	09-09-25																																		
806	On Completion of RCC structure upto Half height	25 days	16-08-25	23-09-25																																		
807	On Completion of RCC structure upto 3/4th height	30 days	23-09-25	29-10-25																																		
808	On Completion of RCC structure upto full height incl. roof slab	45 days	29-10-25	22-12-25																																		
809	On completion of finishing works like Internal & External Painting etc.	30 days	11-02-26	18-03-26																																		
810	After Hydraulic Testing	30 days	30-12-25	03-02-26																																		
811	After Commissioning	90 days	25-05-26	22-08-26																																		
812	Civil Works of Fire Water Pump house	284.5 days	30-07-25	22-08-26																																		
813	On Completion of RCC structure upto Plinth Level	21 days	30-07-25	09-09-25																																		
814	On Completion of RCC structure upto Lintel Level	15 days	09-09-25	27-09-25																																		
815	On Completion of RCC structure upto full height incl. Roof slab	45 days	27-09-25	21-11-25																																		

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Date: 28.10.2022

Task	External Tasks	Manual Task	Finish-only	Manual Progress
Split	External Milestone	Duration-only	Deadline	
Milestone	Inactive Task	Manual Summary Rollup	Critical	
Summary	Inactive Milestone	Manual Summary	Critical Split	
Project Summary	Inactive Summary	Start-only	Progress	

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF



Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028						
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
891	Inspection Completion	3 days	28-10-25	30-10-25																															
892	On delivery at site	15 days	31-10-25	18-11-25																															
893	On completion of Installation	7 days	23-03-26	30-03-26																															
894	On completion of testing & commissioning	90 days	25-05-26	22-08-26																															
895	Price Schedule A1.6 (a) – Sludge Treatment	354.5 days	17-04-25	22-08-26																															
896	Mechanical Works of Primary Sludge Thickeners	278.5 days	22-07-25	22-08-26																															
897	Primary Sludge Thickeners	278.5 days	22-07-25	22-08-26																															
898	On delivery at site	7 days	22-07-25	30-07-25																															
899	On completion of Installation	15 days	18-12-25	05-01-26																															
900	On completion of testing & commissioning	180 days	24-02-26	22-08-26																															
901	Flocculators	278.5 days	22-07-25	22-08-26																															
902	On delivery at site	7 days	22-07-25	30-07-25																															
903	On completion of Installation	15 days	05-01-26	22-01-26																															
904	On completion of testing & commissioning	180 days	24-02-26	22-08-26																															
905	Polydozing System	150.5 days	22-01-26	22-08-26																															
906	On completion of Installation	14 days	22-01-26	07-02-26																															
907	On completion of testing & commissioning	180 days	24-02-26	22-08-26																															
908	Submersible Mixers	139 days	07-02-26	22-08-26																															
909	On completion of Installation	15 days	07-02-26	25-02-26																															
910	On completion of testing & commissioning	150 days	26-03-26	22-08-26																															
911	Electrical Hoists	207.5 days	03-11-25	22-08-26																															
912	On delivery at site	40 days	03-11-25	20-12-25																															
913	On completion of Installation	15 days	20-12-25	07-01-26																															
914	On completion of testing & commissioning	180 days	24-02-26	22-08-26																															
915	Electrical Works of Primary Sludge Thickeners	278.5 days	22-07-25	22-08-26																															
916	Local Control Panel (LCP)	278.5 days	22-07-25	22-08-26																															
917	On delivery at site	7 days	22-07-25	30-07-25																															
918	On completion of Installation	15 days	23-02-26	12-03-26																															
919	On completion of testing & commissioning	90 days	25-05-26	22-08-26																															
920	Cabling	278 days	23-07-25	22-08-26																															
921	Submission of QAP, drawings & datasheets	7 days	23-07-25	31-07-25																															
922	Approval of QAP, drawings & datasheets	35 days	01-08-25	22-09-25																															
923	Inspection Call	30 days	23-09-25	28-10-25																															
924	Inspection Completion	3 days	06-11-25	08-11-25																															
925	On delivery at site	30 days	10-11-25	15-12-25																															
926	On completion of Installation	15 days	05-01-26	22-01-26																															
927	On completion of testing & commissioning	180 days	24-02-26	22-08-26																															
928	Mechanical Works of Secondary Sludge Thickeners	278.5 days	22-07-25	22-08-26																															
929	Secondary Sludge Thickeners	278.5 days	22-07-25	22-08-26																															
930	On delivery at site	7 days	22-07-25	30-07-25																															

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress
	Split		External Milestone		Duration-only		Deadline		
	Milestone		Inactive Task		Manual Summary Rollup		Critical		
	Summary		Inactive Milestone		Manual Summary		Critical Split		
	Project Summary		Inactive Summary		Start-only		Progress		

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ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028			
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1004	On completion of finishing works like Internal & External Painting, Railing etc.	30 days	20-02-26	27-03-26																												
1005	After Hydraulic Testing	30 days	08-01-26	12-02-26																												
1006	After Commissioning	90 days	25-05-26	22-08-26																												
1007	Civil Works of Anaerobic Sludge Digesters Tank 03	342.5 days	01-05-25	22-08-26																												
1008	On completion of Pile breaking & PCC	25 days	01-05-25	29-05-25																												
1009	On Completion of RCC Foundation / Raft	21 days	13-09-25	09-10-25																												
1010	On Completion of RCC structure upto 1/4th height	14 days	09-10-25	27-10-25																												
1011	On Completion of RCC structure upto Half height	30 days	27-10-25	02-12-25																												
1012	On Completion of RCC structure upto 3/4th height	30 days	02-12-25	06-01-26																												
1013	On Completion of RCC structure upto full height incl. roofing, walkway & staircase	14 days	06-01-26	22-01-26																												
1014	On completion of finishing works like Internal & External Painting, Railing etc.	21 days	14-03-26	10-04-26																												
1015	After Hydraulic Testing	30 days	30-01-26	06-03-26																												
1016	After Commissioning	75 days	09-06-26	22-08-26																												
1017	Civil Works of Sludge Storage Area	137.5 days	06-02-26	22-08-26																												
1018	On completion of PCC	9.5 days	06-02-26	17-02-26																												
1019	On Completion of RCC Foundation / Raft	14 days	18-02-26	05-03-26																												
1020	On completion of finishing works	7 days	06-03-26	13-03-26																												
1021	After Commissioning	180 days	24-02-26	22-08-26																												
1022	Civil Works of Weighbridge	128 days	18-02-26	22-08-26																												
1023	On completion of PCC	15 days	18-02-26	06-03-26																												
1024	On Completion of RCC Foundation / Raft	15 days	07-03-26	24-03-26																												
1025	On completion of finishing works like Painting etc.	15 days	25-03-26	13-04-26																												
1026	After Commissioning	30 days	15-06-26	22-08-26																												
1027	Mechanical Works of Sludge Digesters (1/c Digesters & Sludge Storage Area)	294.5 days	30-06-25	22-08-26																												
1028	Anaerobic Sludge Digesters Tank 01 (Mixing System)	135.5 days	12-02-26	22-08-26																												
1029	On completion of Installation	15 days	12-02-26	02-03-26																												
1030	On completion of testing & commissioning	90 days	25-05-26	22-08-26																												
1031	Anaerobic Sludge Digesters Tank 02 (Mixing System)	110.5 days	19-03-26	22-08-26																												
1032	On completion of Installation	15 days	19-03-26	08-04-26																												
1033	On completion of testing & commissioning	90 days	25-05-26	22-08-26																												
1034	Anaerobic Sludge Digesters Tank 03 (Mixing System)	144.5 days	30-01-26	22-08-26																												
1035	On completion of Installation	15 days	30-01-26	17-02-26																												
1036	On completion of testing & commissioning	90 days	25-05-26	22-08-26																												
1037	Valves	294.5 days	30-06-25	22-08-26																												
1038	Submission of QAP, drawings & datasheets	15 days	30-06-25	21-07-25																												
1039	Approval of QAP, drawings & datasheets	45 days	21-07-25	24-09-25																												

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028							
					Qtr 2	Qtr 3	Qtr 4		Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
1078	Valves	250 days	02-09-25	22-08-26																																
1079	Inspection Call	7 days	02-09-25	09-09-25																																
1080	Inspection Completion	3 days	10-09-25	12-09-25																																
1081	On delivery at site	40 days	13-09-25	31-10-25																																
1082	On completion of Installation	15 days	01-11-25	19-11-25																																
1083	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
1084	Electrical Works of Digested Sludge Storage Tank (I/c Digested Sludge Sump & Pump house)	213 days	27-10-25	22-08-26																																
1085	Control Panel (Starters in respective MCC)	201.5 days	11-11-25	22-08-26																																
1086	On delivery at site	40 days	11-11-25	07-01-26																																
1087	On completion of Installation	15 days	26-02-26	18-03-26																																
1088	On completion of testing & commissioning	90 days	25-05-26	22-08-26																																
1089	Cabling	213 days	27-10-25	22-08-26																																
1090	On delivery at site	40 days	27-10-25	22-12-25																																
1091	On completion of Installation	15 days	26-02-26	18-03-26																																
1092	On completion of testing & commissioning	90 days	25-05-26	22-08-26																																
1093	Mechanical Works of Sludge Dewatering Building (I/c Thickening & Dewatering Building)	278.5 days	22-07-25	22-08-26																																
1094	Sludge Dewatering Machines	278.5 days	22-07-25	22-08-26																																
1095	On delivery at site	7 days	22-07-25	30-07-25																																
1096	On completion of Installation	15 days	03-12-25	19-12-25																																
1097	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
1098	Polydozing System	174 days	20-12-25	22-08-26																																
1099	On completion of Installation	15 days	20-12-25	06-01-26																																
1100	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
1101	Return Water Pumps	162 days	07-01-26	22-08-26																																
1102	On completion of Installation	15 days	07-01-26	23-01-26																																
1103	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
1104	Interconnecting Piping	149 days	24-01-26	22-08-26																																
1105	On completion of Installation	15 days	24-01-26	10-02-26																																
1106	On completion of testing & commissioning	180 days	24-02-26	22-08-26																																
1107	Valves	137 days	11-02-26	22-08-26																																
1108	On completion of Installation	15 days	11-02-26	27-02-26																																
1109	On completion of testing & commissioning	120 days	25-04-26	22-08-26																																
1110	Electrical Works of Sludge Dewatering Building (I/c Thickening & Dewatering Building)	294.5 days	30-06-25	22-08-26																																
1111	Local Control Panels (LCP)	294.5 days	30-06-25	22-08-26																																
1112	Submission of QAP, drawings & datasheets	7 days	30-06-25	09-07-25																																
1113	Approval of QAP, drawings & datasheets	45 days	09-07-25	11-09-25																																
1114	Inspection Call	30 days	11-09-25	17-10-25																																

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028							
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
1153	Submission of QAP, drawings & datasheets	15 days	09-07-25	30-07-25																																
1154	Approval of QAP, drawings & datasheets	45 days	30-07-25	03-10-25																																
1155	Inspection Call	90 days	03-10-25	19-01-26																																
1156	Inspection Completion	7 days	19-01-26	27-01-26																																
1157	On delivery at site	40 days	27-01-26	14-03-26																																
1158	On completion of Installation	15 days	23-03-26	11-04-26																																
1159	On completion of testing & commissioning	90 days	25-05-26	22-08-26																																
1160	Biogas Piping	287.5 days	09-07-25	22-08-26																																
1161	Submission of QAP, drawings & datasheets	7 days	09-07-25	18-07-25																																
1162	Approval of QAP, drawings & datasheets	45 days	18-07-25	23-09-25																																
1163	Inspection Call	90 days	23-09-25	08-01-26																																
1164	Inspection Completion	3 days	08-01-26	12-01-26																																
1165	On delivery at site	40 days	12-01-26	27-02-26																																
1166	On completion of Installation	15 days	03-04-26	23-04-26																																
1167	On completion of testing & commissioning	90 days	25-05-26	22-08-26																																
1168	Valves	280.5 days	18-07-25	22-08-26																																
1169	Submission of QAP, drawings & datasheets	15 days	18-07-25	08-08-25																																
1170	Approval of QAP, drawings & datasheets	45 days	08-08-25	14-10-25																																
1171	Inspection Call	60 days	14-10-25	25-12-25																																
1172	Inspection Completion	3 days	25-12-25	29-12-25																																
1173	On delivery at site	40 days	29-12-25	13-02-26																																
1174	On completion of Installation	45 days	03-03-26	27-04-26																																
1175	On completion of testing & commissioning	90 days	25-05-26	22-08-26																																
1176	Moisture Separators	287.5 days	09-07-25	22-08-26																																
1177	Submission of QAP, drawings & datasheets	15 days	09-07-25	30-07-25																																
1178	Approval of QAP, drawings & datasheets	45 days	30-07-25	03-10-25																																
1179	Inspection Call	65 days	03-10-25	20-12-25																																
1180	Inspection Completion	3 days	20-12-25	24-12-25																																
1181	On delivery at site	40 days	24-12-25	09-02-26																																
1182	On completion of Installation	60 days	26-02-26	09-05-26																																
1183	On completion of testing & commissioning	90 days	25-05-26	22-08-26																																
1184	Flame Arrestors	287.5 days	09-07-25	22-08-26																																
1185	Submission of QAP, drawings & datasheets	15 days	09-07-25	30-07-25																																
1186	Approval of QAP, drawings & datasheets	45 days	30-07-25	03-10-25																																
1187	Inspection Call	90 days	03-10-25	19-01-26																																
1188	Inspection Completion	3 days	19-01-26	22-01-26																																
1189	On delivery at site	40 days	22-01-26	10-03-26																																
1190	On completion of Installation	60 days	10-03-26	21-05-26																																
1191	On completion of testing & commissioning	90 days	25-05-26	22-08-26																																

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

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ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028						
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
1227	Mechanical Works of Energy recovery system (I/c Gas Engine Building & Scrubber Area)	261 days	18-08-25	22-08-26																															
1228	Biogas Genset	261 days	18-08-25	22-08-26																															
1229	Submission of QAP, drawings & datasheets	7 days	18-08-25	26-08-25																															
1230	Approval of QAP, drawings & datasheets	45 days	27-08-25	30-10-25																															
1231	Inspection Call	90 days	31-10-25	13-02-26																															
1232	Inspection Completion	7 days	14-02-26	21-02-26																															
1233	On delivery at site	40 days	23-02-26	11-04-26																															
1234	On completion of Installation	7 days	11-05-26	19-05-26																															
1235	On completion of testing & commissioning	90 days	25-05-26	22-08-26																															
1236	Ventilation System (Gas Engine)	277 days	18-08-25	22-08-26																															
1237	Submission of QAP, drawings & datasheets	15 days	18-08-25	05-09-25																															
1238	Approval of QAP, drawings & datasheets	45 days	08-09-25	11-11-25																															
1239	Inspection Call	90 days	12-11-25	25-02-26																															
1240	Inspection Completion	7 days	26-02-26	05-03-26																															
1241	On delivery at site	40 days	06-03-26	23-04-26																															
1242	On completion of Installation	7 days	12-05-26	20-05-26																															
1243	On completion of testing & commissioning	90 days	25-05-26	22-08-26																															
1244	Scrubber System	277 days	18-08-25	22-08-26																															
1245	Submission of QAP, drawings & datasheets	15 days	18-08-25	05-09-25																															
1246	Approval of QAP, drawings & datasheets	45 days	08-09-25	11-11-25																															
1247	Inspection Call	90 days	12-11-25	25-02-26																															
1248	Inspection Completion	7 days	26-02-26	05-03-26																															
1249	On delivery at site	40 days	06-03-26	23-04-26																															
1250	On completion of Installation	20 days	14-04-26	07-05-26																															
1251	On completion of testing & commissioning	90 days	25-05-26	22-08-26																															
1252	Electrical Works of Energy recovery system (I/c Gas Engine Building & Scrubber Area)	418.5 days	30-06-25	22-08-26																															
1253	Breaker Panels	297 days	30-06-25	22-08-26																															
1254	Submission of QAP, drawings & datasheets	15 days	30-06-25	21-07-25																															
1255	Approval of QAP, drawings & datasheets	45 days	21-07-25	24-09-25																															
1256	Inspection Call	90 days	24-09-25	09-01-26																															
1257	Inspection Completion	7 days	17-01-26	26-01-26																															
1258	On delivery at site	40 days	26-01-26	13-03-26																															
1259	On completion of Installation	20 days	13-03-26	08-04-26																															
1260	On completion of testing & commissioning	90 days	25-05-26	22-08-26																															
1261	Cabling	287.5 days	23-07-25	22-08-26																															
1262	Submission of QAP, drawings & datasheets	7 days	23-07-25	31-07-25																															
1263	Approval of QAP, drawings & datasheets	45 days	01-08-25	06-10-25																															
1264	Inspection Call	45 days	07-10-25	29-11-25																															

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Task		External Tasks		Manual Task		Finish-only		Manual Progress	
Split		External Milestone		Duration-only		Deadline			
Milestone		Inactive Task		Manual Summary Rollup		Critical			
Summary		Inactive Milestone		Manual Summary		Critical Split			
Project Summary		Inactive Summary		Start-only		Progress			

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ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028												
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4										
1441	After Hydraulic Testing	30 days	24-03-26	29-04-26																																					
1442	After Commissioning	90 days	25-05-26	22-08-26																																					
1443	Return Activated sludge from return sludge pumping station to selector (Scum piping to Secondary sludge sump)	280 days	21-07-25	22-08-26																																					
1444	Submission of QAP, drawings & datasheets	15 days	21-07-25	08-08-25																																					
1445	Approval of QAP, drawings & datasheets	45 days	11-08-25	14-10-25																																					
1446	Inspection Call	45 days	15-10-25	08-12-25																																					
1447	Inspection Completion	3 days	09-12-25	11-12-25																																					
1448	On delivery at site	40 days	12-12-25	27-01-26																																					
1449	On laying & jointing, installation	15 days	24-03-26	11-04-26																																					
1450	After Hydraulic Testing	30 days	13-04-26	16-05-26																																					
1451	After Commissioning	90 days	25-05-26	22-08-26																																					
1452	Sludge from Thickened Sludge Buffer tank to Dewatering Stage (Dewatering Feed Piping from Digested Sludge Sump to Sludge dewatering)	280 days	21-07-25	22-08-26																																					
1453	Submission of QAP, drawings & datasheets	15 days	21-07-25	08-08-25																																					
1454	Approval of QAP, drawings & datasheets	45 days	11-08-25	14-10-25																																					
1455	Inspection Call	45 days	15-10-25	08-12-25																																					
1456	Inspection Completion	3 days	09-12-25	11-12-25																																					
1457	On delivery at site	40 days	12-12-25	27-01-26																																					
1458	On laying & jointing, installation	15 days	24-03-26	11-04-26																																					
1459	After Hydraulic Testing	30 days	13-04-26	16-05-26																																					
1460	After Commissioning	90 days	25-05-26	22-08-26																																					
1461	Sludge from Thickened Sludge Buffer tank to Tanker/Skip (Sludge Transfer Arrangement to Disposal/Unloading Vehicle)	280 days	21-07-25	22-08-26																																					
1462	Submission of QAP, drawings & datasheets	15 days	21-07-25	08-08-25																																					
1463	Approval of QAP, drawings & datasheets	45 days	11-08-25	14-10-25																																					
1464	Inspection Call	50 days	15-10-25	13-12-25																																					
1465	Inspection Completion	3 days	15-12-25	17-12-25																																					
1466	On delivery at site	40 days	18-12-25	02-02-26																																					
1467	On laying & jointing, installation	15 days	13-04-26	29-04-26																																					
1468	After Hydraulic Testing	21 days	30-04-26	23-05-26																																					
1469	After Commissioning	90 days	25-05-26	22-08-26																																					
1470	Biological Sludge Thickening Unit and Primary Sludge Thickening Unit to Thickened Sludge Buffer Tank (Primary & Secondary Thickened Sludge piping to Thickened Sludge Tank)	280 days	21-07-25	22-08-26																																					
1471	Submission of QAP, drawings & datasheets	7 days	21-07-25	29-07-25																																					

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027			2028											
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4								
1505	On Completion of lagoon 2 area	45 days	18-04-26	09-06-26																																			
1506	On Completion of lagoon 3 area	90 days	14-10-26	29-01-27																																			
1507	On Completion of lagoon 4 area	90 days	14-10-26	29-01-27																																			
1508	Site surface water drainage (I/c Storm Water Drains)	190 days	08-12-25	22-08-26																																			
1509	On Completion of 25% of total length	15 days	08-12-25	24-12-25																																			
1510	On Completion of 50% of total length	15 days	25-12-25	10-01-26																																			
1511	On Completion of 75% of total length	15 days	27-12-25	13-01-26																																			
1512	On Completion of 100% of total length	15 days	14-01-26	30-01-26																																			
1513	On testing	14.5 days	31-01-26	17-02-26																																			
1514	On Commissioning	90 days	25-05-26	22-08-26																																			
1515	Foul works drainage system	190 days	08-12-25	22-08-26																																			
1516	On Completion of 25% of total length	15 days	08-12-25	24-12-25																																			
1517	On Completion of 50% of total length	15 days	25-12-25	10-01-26																																			
1518	On Completion of 75% of total length	20 days	12-01-26	03-02-26																																			
1519	On Completion of 100% of total length	8 days	04-02-26	12-02-26																																			
1520	On testing	20 days	13-02-26	07-03-26																																			
1521	On Commissioning	90 days	25-05-26	22-08-26																																			
1522	Installation of piles	90 days	19-05-25	10-10-25																																			
1523	On Completion of 100% of total numbers upto cutoff level	90 days	19-05-25	10-10-25																																			
1524	Filling of lagoons and redundant outfall channel with suitable material	1066.5 days	25-03-23	16-02-27																																			
1525	On Completion of lagoon 1 area	700 days	25-03-23	30-10-25																																			
1526	On Completion of lagoon 2 area	700 days	02-10-23	25-03-26																																			
1527	On Completion of lagoon 3 area	120 days	26-09-26	16-02-27																																			
1528	On Completion of lagoon 4 area	120 days	26-09-26	16-02-27																																			
1529	Site Roads and hard standings (I/c Internal Roads)	149.5 days	23-01-26	22-08-26																																			
1530	On Completion of 30% Earth Fill	5.5 days	23-01-26	29-01-26																																			
1531	On Completion of 30% Earth Fill	7 days	30-01-26	06-02-26																																			
1532	On Completion of 40% Earth Fill	7 days	07-02-26	14-02-26																																			
1533	On Completion of 30% Granular Sub base	7 days	16-02-26	23-02-26																																			
1534	On Completion of 30% Granular Sub base	7 days	24-02-26	03-03-26																																			
1535	On Completion of 40% Granular Sub base	7 days	04-03-26	11-03-26																																			
1536	On Completion of 30% Wet Mix Macadam	10 days	12-03-26	23-03-26																																			
1537	On Completion of 30% Wet Mix Macadam	10 days	24-03-26	03-04-26																																			
1538	On Completion of 40% Wet Mix Macadam	15 days	06-04-26	23-04-26																																			
1539	On Completion of 30% Dense bituminous Macadam	5 days	24-04-26	29-04-26																																			
1540	On Completion of 30% Dense bituminous Macadam	5 days	30-04-26	05-05-26																																			
1541	On Completion of 40% Dense bituminous Macadam	7 days	06-05-26	13-05-26																																			
1542	On Completion of 30% Bituminous Concrete	5 days	14-05-26	19-05-26																																			

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Task		External Tasks		Manual Task		Finish-only		Manual Progress	
Split		External Milestone		Duration-only		Deadline			
Milestone		Inactive Task		Manual Summary Rollup		Critical			
Summary		Inactive Milestone		Manual Summary		Critical Split			
Project Summary		Inactive Summary		Start-only		Progress			

Project Schedule dates are subject to Engineering and Design and actual progress,

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ID	Task Name	Duration	Start	Finish	2022		2023				2024				2025				2026				2027				2028				
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1543	On Completion of 30% Bituminous Concrete	5 days	20-05-26	25-05-26																											
1544	On Completion of 40% Bituminous Concrete	7 days	26-05-26	02-06-26																											
1545	On Completion of Shoulders & finishing works	21 days	03-06-26	09-07-26																											
1546	On Completion of hard standings (Signages)	15 days	06-06-26	02-07-26																											
1547	On testing	35 days	26-05-26	25-07-26																											
1548	On Commissioning	90 days	25-05-26	22-08-26																											
1549	Strengthening and Resurfacing of existing access road from Eastern Express Highway to new Site Access	123 days	24-02-26	22-08-26																											
1550	On Completion of 25% strengthening & resurfacing of existing road	15 days	24-02-26	12-03-26																											
1551	On Completion of 50% strengthening & resurfacing of existing road	15 days	13-03-26	30-03-26																											
1552	On Completion of 75% strengthening & resurfacing of existing road	15 days	31-03-26	18-04-26																											
1553	On Completion of 100% strengthening & resurfacing of existing road	15 days	20-04-26	06-05-26																											
1554	On Completion of finishing works	15 days	07-05-26	23-05-26																											
1555	On testing	30 days	25-05-26	11-07-26																											
1556	On Commissioning	180 days	24-02-26	22-08-26																											
1557	Widening of existing access road from Eastern Express Highway to new Site Access Road***	362.5 days	01-04-25	13-08-26																											
1558	On Completion of 100% Widening of existing road	133.5 days	01-04-25	15-10-25																											
1559	On testing	14 days	25-05-26	09-06-26																											
1560	On Commissioning	30 days	10-06-26	13-08-26																											
1561	Improvement and construction of new Site Access Road	78 days	20-04-26	22-08-26																											
1562	On Completion of Earth Fill	7 days	20-04-26	27-04-26																											
1563	On Completion of Granular Sub base	10 days	28-04-26	08-05-26																											
1564	On Completion of Wet Mix Macadam	10 days	09-05-26	20-05-26																											
1565	On Completion of Dense bituminous Macadam	7 days	21-05-26	28-05-26																											
1566	On Completion of Bituminous Concrete	7 days	29-05-26	05-06-26																											
1567	On Completion of Shoulders & finishing works	2 days	06-06-26	08-06-26																											
1568	On testing	16 days	09-06-26	09-07-26																											
1569	On Commissioning	90 days	25-05-26	22-08-26																											
1570	Footpaths and surface finishes	74 days	11-04-26	28-07-26																											
1571	On Completion of 25% of total footpath	14 days	11-04-26	27-04-26																											
1572	On Completion of 50% of total footpath	21 days	20-04-26	13-05-26																											
1573	On Completion of 75% of total footpath	21 days	28-04-26	21-05-26																											
1574	On Completion of 100% of total footpath	28 days	06-05-26	06-06-26																											
1575	On Completion of surface finishes	25 days	08-06-26	28-07-26																											
1576	Fencing and gates	130 days	23-01-26	08-07-26																											

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

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ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028						
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
1613	Stablization till satisfactory laboratory test results to class B (on 50% Completion)	30 days	01-10-25	05-11-25																															
1614	Stablization till satisfactory laboratory test results to class B (on 100% Completion)	30 days	01-10-25	05-11-25																															
1615	Transporation and Disposal	90 days	27-03-26	08-08-26																															
1616	Treatment of Sludge from existing Lagoons 3 and 4 to make it Class B sludge including transport/disposal to MCGM designated location	110 days	14-10-26	22-02-27																															
1617	Lagoon 03	110 days	14-10-26	22-02-27																															
1618	Dewatering of lagoon 03	15 days	14-10-26	02-11-26																															
1619	Removing, Treating Sludge, Mixing Lime (on 25% completion)	30 days	02-11-26	08-12-26																															
1620	Removing, Treating Sludge, Mixing Lime (on 50% completion)	30 days	02-11-26	08-12-26																															
1621	Removing, Treating Sludge, Mixing Lime (on 75% completion)	30 days	08-12-26	12-01-27																															
1622	Removing, Treating Sludge, Mixing Lime (on 100% completion)	30 days	08-12-26	12-01-27																															
1623	Stablization till satisfactory laboratory test results to class B (on 50% Completion)	30 days	10-11-26	16-12-26																															
1624	Stablization till satisfactory laboratory test results to class B (on 100% Completion)	30 days	16-12-26	20-01-27																															
1625	Transporation and Disposal	28 days	20-01-27	22-02-27																															
1626	Lagoon 04	95 days	02-11-26	22-02-27																															
1627	Dewatering of lagoon 04	15 days	02-11-26	20-11-26																															
1628	Removing, Treating Sludge, Mixing Lime (on 25% completion)	30 days	20-11-26	25-12-26																															
1629	Removing, Treating Sludge, Mixing Lime (on 50% completion)	30 days	20-11-26	25-12-26																															
1630	Removing, Treating Sludge, Mixing Lime (on 75% completion)	30 days	25-12-26	29-01-27																															
1631	Removing, Treating Sludge, Mixing Lime (on 100% completion)	30 days	25-12-26	29-01-27																															
1632	Stablization till satisfactory laboratory test results to class B (on 50% Completion)	30 days	28-11-26	02-01-27																															
1633	Stablization till satisfactory laboratory test results to class B (on 100% Completion)	30 days	02-01-27	06-02-27																															
1634	Transporation and Disposal	28 days	20-01-27	22-02-27																															
1635	Price Schedule A1.10 – Tests on Completion and Training	123 days	24-02-26	22-08-26																															
1636	Testing of preliminary treatment system	123 days	24-02-26	22-08-26																															
1637	On testing of system	90 days	24-02-26	10-06-26																															

Rev-01 Date: 28.10.2022	Task External Tasks Split External Milestone Milestone Inactive Task Summary Inactive Milestone Project Summary Inactive Summary	Manual Task Duration-only Manual Summary Rollup Manual Summary Start-only 	Finish-only Deadline Critical Critical Split Progress 	Manual Progress
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Construction Program - 215 MLD Mumbai Sewage Disposal Project Stage II - Bhandup WwTF

ID	Task Name	Duration	Start	Finish	2022				2023				2024				2025				2026				2027				2028				
					Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4		
1638	On successful commissioning of system	90 days	03-04-26	22-08-26																													
1639	Testing of primary treatment system	123 days	24-02-26	22-08-26																													
1640	On testing of system	90 days	24-02-26	10-06-26																													
1641	On successful commissioning of system	90 days	03-04-26	22-08-26																													
1642	Testing of biological treatment system	123 days	24-02-26	22-08-26																													
1643	On testing of system	90 days	24-02-26	10-06-26																													
1644	On successful commissioning of system	90 days	03-04-26	22-08-26																													
1645	Testing of Module 1 of tertiary treatment system of capacity 108 MLD	123 days	24-02-26	22-08-26																													
1646	On testing of system	90 days	24-02-26	10-06-26																													
1647	On successful commissioning of system	90 days	03-04-26	22-08-26																													
1648	Testing of sludge treatment system	123 days	24-02-26	22-08-26																													
1649	On testing of system	90 days	24-02-26	10-06-26																													
1650	On successful commissioning of system	90 days	03-04-26	22-08-26																													
1651	Testing of the Energy Recovery Systems	123 days	24-02-26	22-08-26																													
1652	On testing of system	90 days	24-02-26	10-06-26																													
1653	On successful commissioning of system	90 days	03-04-26	22-08-26																													
1654	Testing of SCADA/PLC system	123 days	24-02-26	22-08-26																													
1655	On testing of system	90 days	24-02-26	10-06-26																													
1656	On successful commissioning of system	90 days	03-04-26	22-08-26																													
1657	Process Commissioning	123 days	24-02-26	22-08-26																													
1658	On testing of system	90 days	24-02-26	10-06-26																													
1659	On successful commissioning of system	90 days	03-04-26	22-08-26																													
1660	Plant Proving Period including 30 day Liquid Proving Period and 20 day Sludge Proving Period	70 days	24-02-26	18-05-26																													
1661	On Completion of Liquid proving period for preliminary treatment system	30 days	24-02-26	30-03-26																													
1662	On Completion of Liquid proving period for primary treatment system	30 days	24-02-26	30-03-26																													
1663	On Completion of Liquid proving period for biological treatment system	30 days	24-02-26	30-03-26																													
1664	On Completion of Liquid proving period for tertiary treatment system	20 days	31-03-26	24-04-26																													
1665	On Completion of Sludge proving period for sludge treatment system	20 days	25-04-26	18-05-26																													
1666	Provision of training for Employer's staff prior to Operation Service Period	115 days	24-02-26	04-08-26																													
1667	On Completion of 25% training for Employer's staff prior to Operation Service Period	45 days	24-02-26	18-04-26																													
1668	On Completion of 50% training for Employer's staff prior to Operation Service Period	45 days	24-02-26	18-04-26																													

Rev-01 Date: 28.10.2022	Task		External Tasks		Manual Task		Finish-only		Manual Progress	
	Split		External Milestone		Duration-only		Deadline			
	Milestone		Inactive Task		Manual Summary Rollup		Critical			
	Summary		Inactive Milestone		Manual Summary		Critical Split			
	Project Summary		Inactive Summary		Start-only		Progress			

