

**BEFORE THE NATIONAL GREEN TRIBUNAL,  
SITTING AT WESTERN ZONE BENCH, PUNE  
EXECUTION APPLICATION NO. 6 OF 2021  
IN  
OA NO. 197 OF 2017**

BETWEEN:

VANSHAKTI & ANR.

...Original Applicant

*versus*

MUNICIPAL CORPORATION OF GREATER  
MUMBAI & ORS.

...Respondents

**AFFIDAVIT IN COMPLIANCE TO THE DIRECTION PASSED BY  
THE HON'BLE SUPREME COURT VIDE ORDER DATED  
13.08.2021**

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**ADVOCATES FOR THE RESPONDENT MCGM  
J.S. WAD & CO.  
ADVOCATES**

**FILED ON:17.11.2021**

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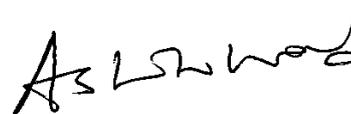
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APPLICANT

THROUGH

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**AFFIDAVIT IN COMPLIANCE TO THE DIRECTION  
PASSED BY THE HON'BLE SUPREME COURT VIDE  
ORDER DATED 13.08.2021**

I, Iqbal Singh Chahal, Adult, Municipal Commissioner of the Respondent Municipal Corporation of Greater Mumbai having office at Municipal Corporation of Greater Mumbai, Municipal Head Office, Mahapalika Marg, Fort, Mumbai 400 001, do hereby solemnly affirm and sincerely state as follows:

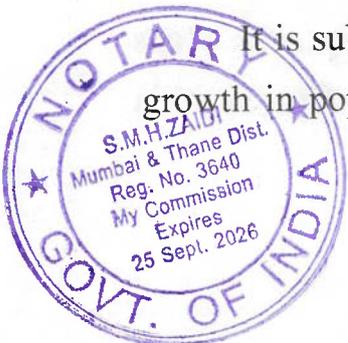


**The Hon'ble Supreme Court was pleased to direct the Municipal Commissioner of the Municipal Corporation of Greater Mumbai to file an affidavit before this Tribunal categorically indicating the steps which have been taken by the Respondent Corporation**

to comply with the directions passed by this Tribunal, particularly in regard to ensuring compliance with the requisite standards for the discharge of effluents including municipal waste and sewage and the Concrete Action Plan for the future to comply with the Directions passed by this Tribunal. This affidavit indicates the steps taken by the Respondent Corporation pursuant to the directions of this Tribunal and includes a concrete plan of action for the future, as directed by the Hon'ble Supreme Court. This Hon'ble Tribunal may consider the affidavit and the steps which have been taken to ensure compliance. True copy of Order dated 13.08.2021 passed by the Hon'ble Supreme Court is annexed as ANNEXURE – 1.

That the Respondent Corporation has made all possible efforts to ensure compliance of the Order dated 14.10.2020 passed by this Hon'ble Tribunal in O.A. No. 197/2017 and the Directions thereto and is continuing to take steps in compliance of the directions passed by this Hon'ble Tribunal. Respondent Corporation has laid out a Complete Action Plan to ensure complete compliance of the Directions passed by this Hon'ble Tribunal. That the Respondent in its Civil Appeal filed before the Hon'ble Supreme Court and the Reports filed before the Maharashtra PCB and CPCB have placed a detailed course of Action to be taken by the Corporation to comply with the Order dated 14.10.2020 passed by this Hon'ble Tribunal.

It is submitted that Mumbai city has seen exponential growth in population since 1950. In order to cope up with



unprecedented growth and such population culminating into drastic increase in the sewage growth, several short term and long term futuristic measures have been taken by the Respondent under its Mumbai Sewerage Improvement Program and Mumbai Sewerage Disposal Project. It may also be relevant to mention here that Respondent has taken urgent measures to seriously comply with the Order passed by the Hon'ble NGT and has processed several tenders under its MSIP and MSDP Projects.

The Respondent has been carrying out several projects throughout the city of Mumbai with regards to Storm Water Drains, Sewer Network; Mumbai Sewage Disposal Project & Solid waste Management, etc. Further the Respondent has also planned future course of action and has prepared an Action Plan to cater the need of waste treatment / disposal through various projects. Lists of department wise completed, on-going and planned works with necessary photographs are annexed as follows:

List of department wise completed works, on-going works and planned works with necessary photographs of Mumbai Sewage Disposal Project Department of Respondent Corporation is annexed as **ANNEXURE – II**.

List of department wise completed works, on-going works and planned works with necessary photographs of Sewerage Project Department of Respondent Corporation is annexed as **ANNEXURE – III**.

List of department wise completed works, on-going works and planned works with necessary photographs of



Storm Water Drains Department of Respondent Corporation is annexed as **ANNEXURE – IV**.

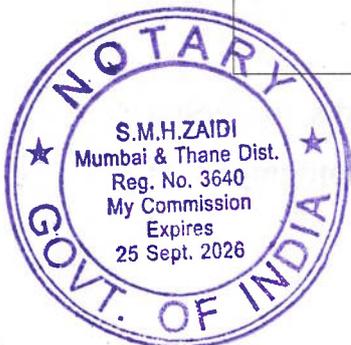
In this regards, various departments of MCGM i.e., Storm Water Drain Department, Mumbai Sewage Disposal Project Department, Sewerage Project Department and Solid Waste Management Department, have taken number of steps to implement directions of Hon'ble NGT. The measures taken for Environment Protection are as under –

**I. Installation of Back Rack screens**

A. Respondent Corporation is in process of installation of Back Rack screen, which are used to solve the problems with regards to filtering, separation and screening of heavy and big size solid materials, at existing Storm Water Pumping stations viz.

**Table Number-1**

<b>Sr. No.</b>	<b>Name of the Work</b>	<b>Date of Work order</b>	<b>Present Status</b>
1	Love grove SWPS (Back Rack screens)	01.02.2020	40% work completed & the operation of screens will commence from <b>May 2022</b> .
2	Irla nalla SWPS (Back Rack screens)	19.06.2019	70% work completed & the operation of screens will commence from <b>May 2022</b> .



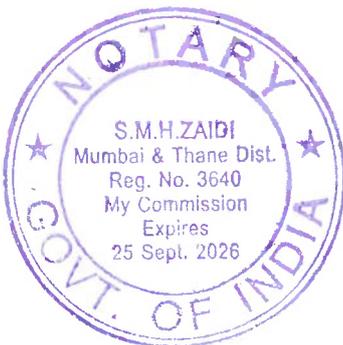
Installation of Back Rack screens

Table Number-2

SR. No.	Name of the Work	Expected date of completion of the work	Present Status
1	Haji Ali SWPS	May 2023	Draft tender for installation of back rake screen is ready and likely to go for publication by 7.12.2021
2	Cleveland Bunder SWPS	May 2023	Tenders are invited and financial packet will be opened on 30.11.2021
3	Britania SWPS	December 2023	Work of Bid document (Tender) has been prepared and tender Notice is in the process of being published by 15.12.2021

The work of installation of Front Rack screens

1 a	Mogra Nalla -	December 2024	Tender process completed and LOA is issued on <b>10.08.2021</b> .
1 b	Mahul Nalla	December 2024	Draft Tender is ready and is expected to be Published by January 2022.



B. It is most respectfully submitted that the storm water in Greater Mumbai is conveyed through storm water drain network and nalla system finally discharging to Arabian Sea/Creek through outfalls provided with Floodgates at few locations. During low tides, when the floodgates are operated, the floating material such as plastic items, thermocol pieces, branches of tree, tyres, wooden logs etc. get discharged into the sea directly. Therefore, MCGM is in the process of providing the Heavy duty Back Rake type Mechanical screen to overcome this problem. The Back Rake System involves fixing of the back rake screening arrangement along with conveyer system for removal of the trash removed from the nalla into the storage system for further disposal. The raking tines of 600 mm size ensure that even large & heavy objects that flow on to the screen are lifted out effortlessly. The Conveyer system transfers the trash lifted into containers for its disposal. D.G. Set at the site ensures uninterrupted operation of the system. At present this type of Back Rake Screen system is being installed at Irla Nalla near the Flood gates & also at LGP Nalla, Worli. Similar system is proposed for installation at Haji Ali, Britannia & Cleaveland Bunder Outfalls.

C. Further, Work order for the work of installation of Mechanical Trash Booms attached with Conveyor System at following locations is **issued and the work is expected to be completed by January 2022.**



Table Number-3

Sr. No.	Location	Work order issued on	Expected date of completion of the work
1	GazdharBandh Nalla	20.07.2021	Each of these sites are being visited and monitored periodically and the work will be completed by January 2022.
2	Main avenue Nalla		
3	Mogra Nalla		
4	Oshiwara River		
5	Poisar River		
6	Dahisar River		
7	VakolaRiver		
8	Mithi River Nature Park		
9	Mithi River BKC Bridge		

## II. Anti-Flooding Measures taken by Respondent Municipal Corporation:

D. It is submitted that out of total identified about 386 flooding spots out of which about 171 flooding spots are already tackled where no major flooding was observed in monsoon 2020. Out of remaining 215 flooding spots 100 flooding spots are tackled before monsoon of 2021. In view of these works undertaken, in Monsoon of 2021 flooding despite heavy monsoon was not experienced unlike in the earlier years where with slight showers flooding used to take



place. Remaining 115 flooding spots are planned to be tackled by May 2022.

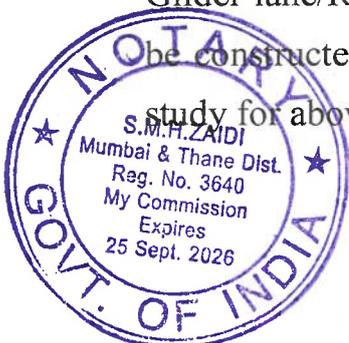
**Details of flooding spots-**

**Table Number-4**

<b>Total identified flooding spots</b>	<b>Flooding spots already tackled before monsoon 2020</b>	<b>Flooding spots tackled before monsoon of 2021</b>	<b>Flooding spots planned to be tackled by May 2022</b>
386	171	100	115

E. Tendering process for Mogra Storm Water Pumping Station (SWPS) is **completed**. **LOA is issued on 10.08.2021** and work will be **completed within 20 months** (excluding monsoon).

F. Respondent Corporation has hired Consultancy services for planning, Designing, Preparation of bid documents for SWD works for abating flooding at locations viz. Hindmata Cinema Junction in F/South ward, GolDeval, Alankar Cinema, Alibhai Premji Marg, Mumbai Central and flooding spots in C, D and E ward and for Proposed SWD network by deep tunnelling from Mumbai Central east side, Gilder lane/Rusi Mehta circle up to proposed new SWPS to be constructed near existing Haji Ali SWPS. The feasibility study for above works is in progress.



**G. List Of Notable Works Undertaken by Respondent Corporation in Last 5 Years for Flood Control and Management is as under:**

**a) Name of Work – Mini Pumping Station at Gandhi Market** -The work of installation of total 13 pump sets of total capacity of 18000 cubic meters / hour for pumping rain water and 4 flood control gates at three places to dewater excessive storm water at **Gandhi Market is already completed in August 2021.** Therefore, it has been observed that the drainage of rain water in the Gandhi Market area has receded speedily in this monsoon. Photographs are attached at **ANNEXURE –IV.**

**b) Name of Work – Laying of 1800 mm diameter line by Micro tunnelling and construction of RCC Box Drain at Sandhurst Road Station and P D'mello Road:** In order to drain the accumulated water in and around Sandhurst Road railway station, this year the Central Railway and MCGM have jointly carried out the work of laying of 1800 mm dia. line by micro tunnelling below Sandhurst Road Station railway tracks and construction of RCC Box drain along P D'mello Road. **This work is**



already completed on 15th June 2021. Photographs are attached at **Annexure – IV.**

**c) Construction of Underground Holding Ponds at St. Xavier's Ground and Pramod Mahajan Udyan to abate flooding at Hindmata:** 11000 cubic m. capacity holding ponds has been constructed at St. Xavier's ground and 16000 cubic m. capacity holding pond has been constructed at Pramod Mahajan Udyan to store the excessive rainwater accumulated during heavy rainfall at Hindmata area. **This work is already completed in August 2021** and it was observed that recede of rain water in Hindmata area was faster than before. Photographs are attached at **Annexure - IV.**

**d) Desilting of Mithi River by using Silt Pusher Machine:** In the year 2021, silt and floating material from Mithi river has been removed by using a multi-purpose amphibious silt pusher machine. This machine has a higher sludge removal capacity than the usual machine and it was possible to remove the sludge in less time than usual. Photographs are attached at **Annexure -IV.**



In each of these works undertaken, apart from periodical supervision and inspection, municipal officials have found that the work done has achieved result, in as much as, the completed works are all functional.

**e)Hindmata Cinema, Madkebuwa Chowk, Chivda Street Round tube of diameter Rainwater drainage work is already completed:**

Total Length – 950 m

Completed Length – 950 m

Diameter – 1800 mm dia (950 m length)

**Date of Completion – 28.02.2021**

Photographs are attached at **Annexure -IV.**

**f)Laying of 1800 mm dia SWD line at Kherwadi Kalanagar Junction to abate the flooding on Western Express Highway is already completed:**

Total Length – 240 m

Completed Length – 240 m

Size of Drain– 4 m wide (240 m length)

Diameter – 1800 mm dia (240 m length)

**Date of Completion – 20.02.2020**

Photographs are attached at **Annexure -IV.**



**g) Construction of Mini Pumping Station and installation of flood gate is already completed**

**to abate flooding at Kalanagar:** Flood control gate – 11 Nos. of penstock type gates with stainless steel frame and electric actuators are installed at outfalls.

Pumping Arrangement – To dewater the rain water during high tides, **18 Nos. of pumps are installed.** Photographs are attached at **Annexure -IV.**

**h) Name of Work – Construction of RCC Box Drain of 4 m X 3 m size along ES Patanwala Marg to abate the flooding at Byculla East area is already completed:**

Total Length – 925 m

Completed Length – 600 m

Size of Box Drain – 4 m x 3 m

**Date of Completion – 21.05.2022**

**i) Name of Work – Construction of GazdharBund stormwater pumping station is already Completed:**

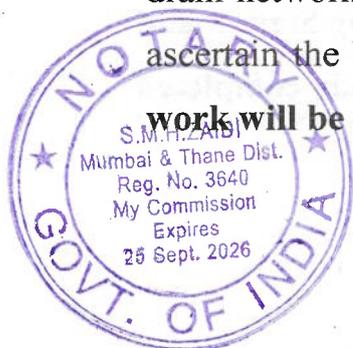
Capacity of Pumping Station – 36 m<sup>3</sup>/sec

**Date of Commissioning – June 2019**

Beneficial Area – Santacruz West Area

Photographs are attached at **Annexure -IV.**

H. Respondent Corporation has also undertaken Conditional assessment of underground SWD man entry drain network of 101 km of city area with CCTV survey to ascertain the blockage in drain if any causing flooding, **the work will be completed by May 2022.**



### **III. Colaba WwTF**

I. Work of Colaba WwTF of 37 MLD capacity was completed and commissioned and is operational since **April 2020** and the same is in accordance of the discharge Norms stipulated by this Hon'ble Tribunal. **Periodical inspection by Municipal officials has revealed that the STP is functional and operational. The same is inspected and appreciated by the CPCB officials.**

### **IV. River Rejuvenation Program:**

J. Four rivers (i.e., Mithi, Dahisar, Poisar and Oshiwara / Walbhat Rivers) are covered under River Rejuvenation Program. It is most respectfully submitted that the Respondent is carrying out major transformational works for rejuvenation of these rivers simultaneously in different projects and rejuvenation work on these rivers is expected to be completed phasewise between 2022 to 2025. Respondent had undertaken the river rejuvenation work to reduce the river water pollution from discharge of waste water from Storm Water Drains (SWD drain) by diversion of dry weather flow from the SWD drains to the existing sewer network and also construction of new STPs along the banks of the rivers in which diversion of dry weather flow from SWD drains connecting to rivers will be diverted and treated as per present discharge standard and will be discharged into the river. Brief details are as under –



➤ **Mithi River**

The Respondent has designed a program for diverting sewage flow entering in to Mithi River which is divided in four packages (Short term i.e. Package-I & long term i.e. Package-II, III & IV). The following works are under process for remediation measures for treatment of sewage water entering into Mithi River:

- **Package –I** comprises of providing and laying Sewer lines of 1.65 km length along the banks of Mithi River from Filter Pada to WSSD Garage, Construction of inlet pumping station and 8 MLD STP. Under this package, the work commenced on **27.11.2018** and in normal circumstances the work was scheduled to be completed within the period of 24 months, i.e. November 2020. However, due to the present pandemic, there have been frequent lockdowns and shortage of labour due to which the completion of the project is extended upto 31.03.2022. **The work on the said progress is on going and as on date 75% work is completed.**



- **Package –II** includes 8.07 km length of sewer line along and nearby Mithi River and 102 nos. of minor interceptors to divert Dry Weather Flow from minor nallas to Municipal sewer network system. The work order for the said works has been issued on **14.12.2020** and the work is in progress. Time period for Package-II works is 24 months (excluding monsoon) and the respondent is doing the work on war footing.
- **Package – III** includes training of river (Construction of Retaining Wall & Service Road) Pumping Stations, Interceptions & Diversion works for diverting Dry Weather Flow of various outfalls / nallas into nearby existing Municipal Sewer networks along with Gate Pumps, Beautification including Promenades & allied works. It comprises of Sewer line work (8.13 km), Retaining Wall (8.163 km), Service Roads (7.219 km), 28 nos. of Interceptors, 26 nos. of Gate Pumps, 3 nos. of Sewage Pumping Stations and 12.04 kms of beautification of river including Promenades with their O&M for 10 years. **The area where Package III is to be carried out is highly**



encroached with slums and the land area available for carrying out the service roads & sewer line network is very limited. Using rehabilitation policy, the structures need to be removed and appropriate technology need to be finalized to prevent sewerage from entering into the river. During 2020-2021, MCGM has carried out numerous technical discussions with TAC as well as Gate pump manufacturers from South Korea, Japan and Germany. Respondent will invite the Tender in this fair season and the work order will be issued, as per the procedure laid down under the Mumbai Municipal Corporation Act. Time period for these works is 36 months.

- **Package – IV** comprises of construction of Tunnel for diversion of intercepted Dry Weather Flow to the proposed WwTF at Dharavi. Work order is issued on **1.10.2021**. The contract period for the work is 4 years.



**Table Number-5**  
**Summary of Mithi River Rejuvenation Works**

<b>Drains connecting to the River</b>	<b>No. of drains covered</b>	<b>Remarks</b>
1)Mithi River		
Package-I	03	-Work started on <b>27.11.2018</b> as per discharge standards i.e BOD-20 mg/l, TSS-50 mg/l. -Fresh variation order due to change in discharge norms after award of contract, <b>is issued on 22.10.2021</b> -Physical progress of work is 75%. -expected date for 100% <b>completion is by 31.03.2022.</b>
Package-II	07	-Work started on <b>14.12.2020</b> -expected date of completion <b>December 2023.</b>
Package-III	16	Tenders will be invited in this fair season (excluding monsoon).
Package-IV	02	-Work order issued on <b>1.10.2021.</b> -Expected date of completion <b>30.09.2025</b>
Total no of drains covered	28	--

➤ **Dahisar River**

Respondent Corporation has proposed to lay sewer line of 4.42 km along Dahisar River along with 2 Nos. of STPs & 10 Nos. of interceptors. **Work order is issued on 11.10.2021.** The Contract period is 24 months (excluding monsoon).



➤ **Poisar River**

Respondent Corporation has proposed to lay sewer line of 8.67 km along Poisar River along with 10 Nos. of STPs & 13 Nos. of interceptors. The lowest bidder is finalized and the proposal for award of work will be submitted to the Approving Authority before **December 2021**. Work Order will be issued as per the procedure laid down under the MMC Act.

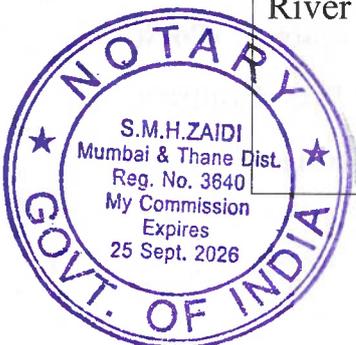
➤ **Walbhat / Oshiwara River**

Respondent Corporation has proposed to lay sewer line of 4.42 km along Walbhat / Oshiwara River along with 5 Nos. of STPs & 6 Nos. of interceptors.

The brief details are as under -

**Table Number-6**

<b>Drains connecting to the River</b>	<b>No. of drains covered</b>	<b>Remarks</b>
1)Dahisar River	02	-work order is issued on <b>11.10.2021</b> -Contract period 24 Months (excluding monsoon)
2)Poisar River	03	The lowest bidder is finalized and the proposal for award of work will be submitted to the Approving Authority before December 2021.



3) Oshiwara River/ Walbhat River	09	-Tender Under Litigation - Hon'ble Bombay High Court in Writ Petition (L) NO. 17042 of 2021 titled as 'Shapoorji Pallonji Vs Municipal Corporation of Greater Mumbai. <b>High Court has directed not to issue the work order till further hearing.</b>
Total no of drains covered	14	--

#### V. Sewer Network

K. MCGM has an existing network of 2024 km length of sewer lines in MCGM limit which caters to approximately 84 lakh population, which is about 68% of overall population of the Mumbai City. An Action Plan for providing and laying new sewer lines for covering of entire city and suburbs has been prepared under Mumbai Sewerage Improvement Program (MSIP). Laying sewer lines in developed areas for the length of 93.68 km as per MSIP is in progress. At present, **out of 93.68 km, laying of 28km sewer line is completed, laying of 41.04km sewer line is in progress** and 24.64km length of sewer line is in tendering stage and work order will be issued after following due process.



L. Further, all long term and short term actions taken by the Respondent Municipal Corporation, in pursuance of

Order dated 14.10.2020 and directions thereto are stated as under:

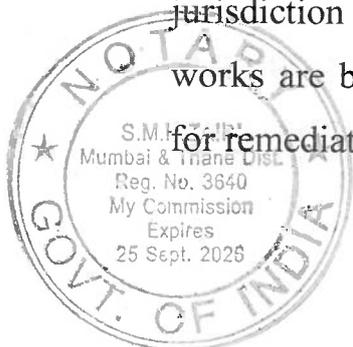
**DIRECTION WISE COMPLIANCE BY MCGM AND FUTURE ACTION PLAN IS AS UNDER**

1. **Bioremediation and /or Phytoremediation and any other remediation measure for treatment of sewage water. If not taken by MCGM, compensation @5lakhs per month per drain deposited with CPCB. It is not to be excuse to delay the installation of STP or not doing anything and discharging untreated water in water bodies:**

**Efforts of MCGM to eradicate the sewage entering into the water bodies:**

M. It is most respectfully submitted that the Respondent Corporation is putting continuous efforts to eradicate Sewage waste entering into the water bodies in the City of Mumbai. The steps taken under this directive are covered in para IV above.

N. It is most respectfully submitted that there are 95 SWD drains/ Nallas in the city of Mumbai and under the jurisdiction of the Respondent Corporation. The following works are being carried out by the Respondent corporation for remediation measures:



- a) MCGM has diverted Part dry weather flow of LGP nalla to Worli waste water treatment plant where preliminary treatment is done & further disposed off through deep marine outfall. It is planned to take the entire dry weather flow in proposed work of augmentation of Worli waste water treatment facility and to treat the same as per latest NGT discharge norms.
- b) Also, the dry weather flow of Haji Ali Nalla is diverted to Worli WWTF through sewer network where preliminary treatment is done & further disposed off through deep marine outfall.
- c) 42 SWD drains/ Nallas are connecting to the 4 (four) rivers, i.e. Mithi River, Poisar River, Dahisar River & Oshiwara River. The corrective measures for these drains are covered in **Table No. 5 & 6**.
- d) For remaining 48 SWD drains which are connecting to Creek and Sea –

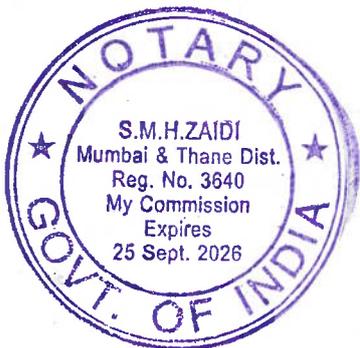
The remaining 48 drains which discharge to Creek and Sea belong to different catchment areas with different geographical conditions, surrounding areas and activities therein. It needs to be studied and dealt separately as Dry



Weather Flow Characteristics of each nalla are different which may require site specific solutions so that final discharge to natural water bodies meet the stipulated discharge norms. The Respondent is taking measures to tackle this issue by providing Short Term Measures which will give speedy and desired discharge results and Long-Term Measures which will give sustainable and cost-effective solutions for future.

**Short term measures: -**

1. On similar way of measures taken in case of 4 Rivers, the study for interception and diversion of dry weather flows (DWF) of 2 nos. of nallahs (i.e., Pushpa Park Nalla and Chandavarkar Nalla) to existing sewers has been already started and the line of action will be finalised in due course.
2. It is most respectfully submitted here that, various agencies with different ideas for in situ treatment of dry weather flow in nallas, lakes etc. are approaching to the Respondent that assure for their products and end results. Out of these Agencies, some work on the phenomenon of bioremediation,



phytoremediation treatment, some work on putting doses of their special products (chemicals etc.) in nallas, lakes to treat dry weather flow and some work on the microbiological bacterial treatment. These methods of treatment are different from conventional methods and need expert study of these eras.

3. The Respondent has conducted meetings with Director-NEERI, Retired Chief Engineers of MCGM who are acquainted with Mumbai's Sewage and Storm Water Drain System and Chief Engineers of various Depts from time to time to decide the line of action for diversion of dry weather flow (DWF) of these nallas to have effective measures to control the pollution.
4. This Respondent has already started the process of appointing a technical consultant who can suggest speedy & effective Short-Term Solutions and sustainable & Cost Beneficial Long Term Solutions. The expected date of appointment of consultant will be May 2022 subject to proper response from the bidders.



5. Till the appointment of the Consultant, this Respondent Corporation has also contacted some of the Agencies carrying out bioremediation treatment. These Agencies have inspected the sites for bioremediation. Also, the feasibility is checked by agencies from Chennai at some of the locations and their observations are as under:

- The water levels of open drains are very low.
- There was no water at Bandra Behrambagh drain.
- The access to open drains at Worli, Santacruz (west) and Bandra for setting up dosing tanks and carrying out daily bio culture refilling activities looks very difficult due to hutments on either side.
- The proposal for Malad WwTF site is submitted by one party for bioremediation and same is under scrutiny.
- Also, other agencies working in bioremediation field are contacted so as to obtain competitive rates. In this regards, Bhabha Atomic Research



Centre (BARC, Mumbai) is also contacted and their assistance is being taken to implement Bioremediation / phytoremediation and / or any other remediation measures.

- Due to Covid situation in India and subsequent lockdown orders, the prospective bidders could not visit the site, especially from Bangalore and Chennai.
- Nevertheless, necessary steps are being taken to use bioremediation technology at various existing WwTFs and Storm water drain nallahs as temporary measure.
- On the basis of the Study carried out and consultation of the agencies, who have visited various sites, steps for bio remediation as an interim measure on temporary basis, till long term measures are in place, would be done to the best possible extent.

**Long term measures –**

As submitted above, to suggest Long Term sustainable and cost-effective solutions this



Respondent has already started the process of appointing technical consultant to check feasibility of diversion of Dry Weather Flow to Municipal sewer system and any other remedial measures. The solutions suggested by the Consultant will be implemented at the earliest by following due procedure laid down under the MMC Act.

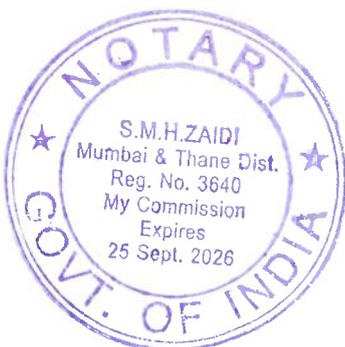
The 48 no. of drains leading to creek and sea are identified in order to take remedial measures.

O. It is most respectfully submitted that Respondent has taken several measures pursuant to the Directions passed by this Hon'ble Tribunal to comply with the Direction laid down vide Judgment dated 14.10.2020. However, it is most respectfully submitted that the Judgment dated 14.10.2020 will be complied with and efforts are being taken; however, before, during and after the city of Mumbai has been through very tough times on account of the pandemic and the entire time, money and energy of the Municipal Corporation and its official was fully dedicated to tackle the pandemic, which was given the highest priority. This was is one of the major reasons for delay in implementation of the Directions passed by this Hon'ble Tribunal. It is pertinent to mention here that the city of Mumbai which went through consistent lockdowns on account of emergent Covid restrictions, the



restrictions on Travel, Strict imposition of Covid Guidelines by the Central & State Government and MCGM personnel's actively engaged in Covid duties there has been some delay in timely implementation of all the directions issued by this Hon'ble Tribunal. However, respondent corporation is committed and duty bound to implement the direction for which, as stated earlier, steps have already been taken and some of the directions have already been completed and works have become functional, with timebound action plan in a systematic and scientific manner.

P. Respondent respectfully submits that the Respondent has endeavored to comply with directions passed by this Hon'ble Tribunal in its letter and spirit; but, since the implementation of each and every direction needs to be backed up with scientific data and analysis, for proper implementation and longevity, it is appropriate that Respondent corporation be allowed to follow the procedure as laid down in the Mumbai Municipal Corporation Act while issuing work orders to the Contractors. Further, any implementation of the directions without assessing the technical feasibility, cost benefit analysis and understanding the site constraints, may create chaos and therefore, in order to avoid any Environmental Problem, the work as proposed herein before undertaken in view of directions passed, may be permitted to be taken, in a systematic and scientific manner. In view of the aforesaid, it is humbly prayed that



wherever the work is of such a nature that requires a technical feasibility, cost benefit analysis and understanding the site constraints, etc. the corporation may be permitted to implement the directions of this Hon'ble Tribunal by giving sufficient and reasonable time.

- 2. Where Operational deficiencies of existing STPs have not been rectified and untreated compensation @ Rs.10 lacks per month per STP deposited to CPCB. CPCB is directed to examine all STPs, CETPs within Mumbai and calculate amount of environmental compensation and proceed to recover the same and intimate the tribunal fortnight:**

Q. It is most respectfully submitted that the CPCB officials had visited all 8 STP's in Mumbai on 10.11.2020 and 11.11.2020 as per order of Hon'ble NGT dated 14.10.2020 in O.A. No. 197/2017. Based on their visit, CPCB submitted observation regarding all 8 STP's. The remarks from Respondent Corporation to all points raised by CPCB were replied vide letter under signature of DMC (E) u/no. DMC/E/2893 dated 17.03.2021.

R. In this regard, it may be noted that STPs at Worli, Bandra, Versova, Malad, Ghatkopar and Bhandup were constructed and commissioned from 1992 to 2003, based on discharge norms in vogue at that time. Now, as per this Hon'ble Tribunal's order dated 30.04.2019 passed in O.A.



No. 1069/2018, Fresh tenders for upgradation/construction of existing WwTFs at Worli, Bandra, Dharavi, Versova, Malad, Ghatkopar and Bhandup are invited. Major capital investments are being carried out in construction of new WwTFs with updated technology. In the meantime, the existing facilities shall continue to work, subject to conditions laid down by the appropriate authorities. However, since major cost is being incurred by the Respondent for new facilities, it may not be convenient and plausible to invest major capital expenditure in the existing facilities and/or carry out any design changes in existing plants. However, all these WwTFs are operated and maintained as per prevailing consent of MPCB valid upto December 2020.

S. The latest consent for period from 1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2023 is in line with the guidelines issued by Hon'ble NGT and the same are considered while inviting tenders for upgradation of STPs.

T. The operation and maintenance of existing WwTFs is being carried out as per old discharge norms and as per consent given by MPCB in the past. However, necessary steps to use bioremediation as a temporary measure at existing STPs to improve the quality of discharge effluent are being taken subject to feasibility.

**3. Where the work regard to STP, Sewage network and its connectivity not yet started, MCGM has to**



pay environmental compensation @ Rs.10 lacks per month per STP, Sewage Network and its connectivity after 31.12.2020 for the delay in setting up the same. It will be open to the MCGM to recover the same amount from the erring officer and public contractor.

U. In this regard, the brief details of existing and proposed sewerage network are given in Para V herein above. In order to achieve 100% sewerage connectivity to citizens, Respondent Corporation has prepared Mumbai Sewerage Improvement Program (MSIP) from 2016-17 and the same is under implementation in a phase wise manner.

V. The present status of Laying of Sewer Lines is as under:

**Table Number-7**

	<b>Sewer length</b>	<b>Popu- lation Served</b>	<b>Cumula -tive</b>	<b>Remarks</b>
	<b>In KM</b>	<b>In Lakh</b>	<b>In percent- tage</b>	
<b>Existing</b>	2024	84	68%	Sewer line is laid and the work is completed.
<b>Proposed Under MSIP Component I</b>	93.68	21	85%	Details are in table number 8 below



<b>Proposed Under MSIP Component II</b>	143.19	19	99%	The Sewage at these locations will be intercepted and diverted to nearby sewer lines / STP. Details covered under MSIP III i.e. river rejuvenation program (table number5 and 6)
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**Under MSIP component I**, MCGM has proposed to lay 93.68KM of sewer line which will cover additional population of about 21 lakh. Progress of proposed 93.68 KM of sewer line is as below –

**Table Number-8**

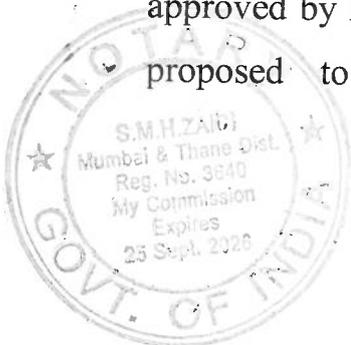
<b>Sr. No.</b>	<b>Description</b>	<b>Length (in Km)</b>	<b>Expected Date of Completion</b>
1	Works Completed	28	2016 to Aug - 2021(Annexure III)
2	Works are in progress	41.04	Oct 2024 (Detailed list is attached at AnnexureIII)
3	Works in Tendering process (i.e. site survey, feasibility, preparation of	17.73	It is planned to complete these works by December 2024



	estimate etc.)		subject to proper response from bidders. <b>(Detailed list is attached at AnnexureIII)</b>
4	Works to be executed in phases (will be carried out after completion of work in progress)	6.91	It is planned to complete these works by December 2025 subject to proper response from bidders. <b>(Detailed list is attached at AnnexureIII)</b>
	Total :	93.68	

W. MSIP **Component II** consists of laying sewer lines along 143.19 Km. length of D. P. Roads which are at present un-developed / encroached and not yet handed over to MCGM. The same can be developed in S.R.A. layouts after removal of encroachment. As on date, the permission to lay sewer lines along proposed D.P. roads of about 7 KM length had been issued to developers/ Government authorities. Additional permissions will be issued on merit as and when the proposal for development of Slum Redevelopment schemes will be received to this department.

X. As per "National Mission for Urban Housing", Pradhan Mantri Awas Yojana, the Housing for All by 2022 is approved by Hon. Prime Minister. Under this mission, it is proposed to implement Slum Rehabilitation Scheme



effectively, so as to provide pucca house to all eligible urban households by the year 2022. Hence, progress of providing sewer line on such un-developed / encroached and not yet handed over to MCGM D.P. roads will depend on the effective implementation of the above scheme.

Y. However, **under MSIP component III**, to abate pollution of 4 major rivers, MCGM has undertaken major projects which include either diversion of DWF to Respondent Corporation sewerage system or by providing onsite treatment to such DWF through satellite STPs. The estimated DWF entering in 4 major rivers is about 448 MLD. After completion of these mega projects for the Rivers, the DWF generated by about 19 lakh population as covered under **MSIP component II** will be treated and disposed off safely as per discharge norms. Details of Diversion of DWF in sewerage system from Mithi River, Dahisar River, Poisar River, Walbhat River / Oshiwara River is as under:

**Table Number-9**

Sr. No.	Works	Avg. DWF (in MLD)	Status
1	Mithi River Water Quality Improvement	8	Sewer Line = 1.65 KM and 1 STP of 8MLD capacity.



	Project Package I Filter Pada to WSP site		Work order issued and the work is in progress. <u>Sewer line laid = 1.471 km</u> -Expected Date of completion 31.03.2022. -Physical progress 75%
2	Mithi River Water Quality Improvement Project Package II WSP Site to CST Bridge (Non Tidal Zone)	95	Sewer Line = 8.07 KM -Work Order issued on 14.12.2020. - Work in progress Expected date of completion =Dec - 2023.
3	Mithi River Water Quality Improvement Project Package III CST Bridge to Mahim Creek (Tidal Zone)	37	Sewer line = 8.13 KM (Gravity = 7.61km + Rising = 0.52km), -Tender will be invited in this fair season.
4	Mithi River Water Quality Improvement Project Package IV Transfer Tunnel from Bapat Nalla to Safed Pul Nalla to Proposed Dharavi WwTF	168	Segmental Tunnel of 2.6 m dia of @ 6.5 km length -Work order issued on 1 <sup>st</sup> October 2021& work is in progress. - Expected Date of completion is September 2025.
TOTAL =		308	

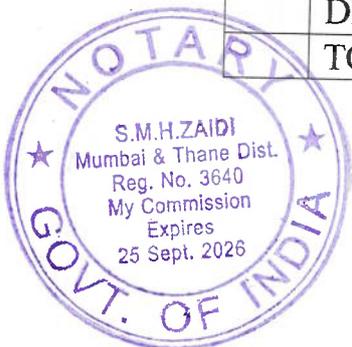


Table Number-10

Sr.	Description	Dahisar River	Poisar River	Walbhat River/ Oshiwara Nalla	Total
1	Length of River (in KM)	4.75	9.46	7.58	21.79
2	Total Dry Weather Flow (in MLD)	17.06	67.40	56.43	140.89
	a) DWF to be diverted to proposed Sewer network (in MLD)	10.56	33.90	35.93	80.39
	b) DWF to be diverted to proposed STP (in MLD)	6.50	33.50	20.50	60.50
3	Existing Sewer Network(in KM)	4.46	4.50	2.30	11.26
4	Proposed Sewer Network(in KM)	4.42	8.67	4.72	17.81
5	Proposed No of STP (in Nos.)	02	10	05	17

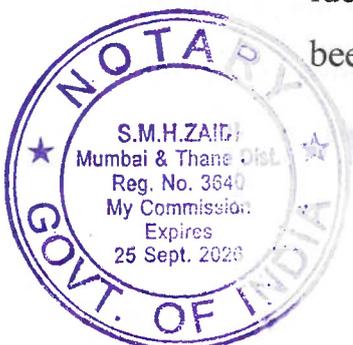
Z. It is most respectfully submitted that the Respondent Corporation has issued work order to consultant on **25.10.2021**, to suggest solutions for intercepting the DWF entering into Lakes & Ponds in Mumbai City and divert the same either into existing Municipal Sewer lines or lay new Sewer lines or construct STP so that treated water, as per the



effluent norms defined by this Hon'ble Tribunal, can be discharged into the Lakes / Ponds so as to improve the water quality of these Lakes / Ponds.

AA. **3 lakes have been shortlisted as pilot projects i.e., Sion Talav in Island City, Sheetal Talavin Eastern Suburb and Dingeshwar Talav in Western Suburb.** On successful implementation of above water quality improvement works in these pilot lakes, remaining lakes/ponds can be taken up for water quality improvement works. Consultancy Services work has already started and the following works are being carried out in **Sheetal Talav** as under:

- Topographic survey using Total Station, SWD, lake systems and survey of existing sewerage system in vicinity of such SWDs and route planning for new sewers has been carried.
- Drone Survey for aerial mapping with attached with GPS coordinates.
- Geotechnical investigations are done related to the proposed structures like Packaged type STPs/ SPS/ I&D etc.
- The main sources of pollution has been identified also the status of encroachment has been recognized.



- Solid waste dumping problem is identified which is a great hurdle for keeping healthy environment, Lake beautification and cleaning.

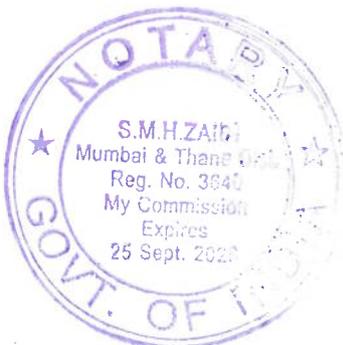
It is expected that the work of rejuvenation for above mentioned lakes will be started by 2022-23 subject to proper response from the bidders.

BB. MSIP Component IV is to provide sewerage facility to Slum dwellers/ Slum areas and small roads below 6 meter width under “Swachha Bharat – Swachha Maharashtra – Swachha Mumbai Abhiyan”. Asst. Commissioner of respective wards provides sewage disposal facilities in slum areas as per the guidelines/ directions issued under various circulars. Presently the following works are being carried out by the Respondent under this Component:

**Details of Construction of Community Toilet Blocks (CTB):**

**Table Number-11**

Details of Community Toilet Blocks (CTB) Constructed		
Contract	Period of Contract	Toilet Blocks/ (Seats)
1 to Lot- 7	1997 to 2005	324 ( 5680 Seats)
Lot -8 ( R )	2006 to 2013	189 (4849 Seats)
Lot - 9	2011 to 2014	235 (3840 Seats)
Lot - 10	2016 to 2020	174 (4163 Seats)
Lot - 11 ( Work in Progress)	2019 to 2021	829 (19480)
<b>Total</b>		<b>1751 (38012)</b>

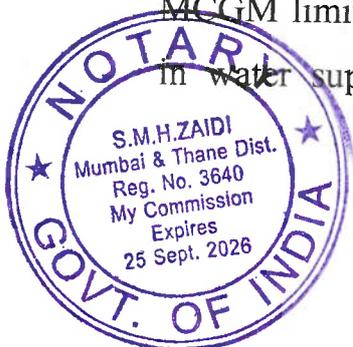


Wardwise summary of ongoing works of CTB is as under:

Table Number-12

Ward wise Summary of Ongoing Works of Community Toilet Blocks				
Sr.No.	Ward	Total CTB	CTB connected to	
			Sewer Line	Septic Tank
1	A	8	2	6
2	D	10	4	6
3	E	18	17	1
4	F/S	13	2	11
5	F/N	13	0	13
6	G/S	8	3	5
7	G/N	9	1	8
8	H/E	16	14	2
9	H/W	11	9	2
10	K/E	20	0	20
11	K/W	25	4	21
12	P/S	9	1	8
13	P/N	123	67	56
14	R/S	14	3	11
15	R/C	17	13	4
16	R/N	36	10	26
17	L	126	41	85
18	M/E	240	89	151
19	M/W	26	14	12
20	N	29	12	17
21	S	53	1	52
22	T	5	2	3
<b>Total</b>		<b>829</b>	<b>309</b>	<b>520</b>

CC. Sewerage Treatment: It is most respectfully submitted that there is water supply of 3750 MLD to entire MCGM limit. That there is 27% water loss due to leakages in water supply networks. Thus, the actual water supply



works to 2737.5 MLD. Considering sewage generation at 80% of water supply, it works out to 2190 MLD. As against there is provision for treatment capacity of about 2723 MLD.

**Table Number-13**

Sr. No.	Description	Quantum
1	Daily Water supplied by M.C.G.M	3750 MLD
2	Actual water supply after 27 % water losses	2737.5 MLD
3	Sewage generated at 80 % of actual water supply	2190 MLD
4	Sewage collected for treatment through sewer network	1285 MLD
5	Sewage treated through Pvt. & Govt. and Semi Govt. organization	158 MLD
6	Balance DWF	747 MLD
6A	Proposed sewage to be treated/interception from Mithi, Dahisar, Poisar, Walbhat/Oshivara Rivers and Other nallahs	506 MLD
6B	Remaining flow from Slums, Unsewered Area, etc.	241 MLD

**Above flow at 6B is addressed under Component IV of MSIP and is under process.** However, as submitted above, Respondent had undertaken the river rejuvenation work to reduce the river water pollution from discharge of waste water from slums / unsewered areas which finds its



way to nearby SWD drains, by interception and diversion of such dry weather flow to the existing sewer network / construction of new STPs along banks of these rivers / drains, as per present discharge standards.

DD. However, there are quite a few difficulties, as listed below, being faced by the Respondent Corporation while laying new sewer network in their Municipal area—

1. Delay in obtaining various N.O.C.'s from different external organization like Traffic Police, MMRDA, Railway, PWD, MoEF etc.
2. Delay due to
  - a) Restricted use of heavy machineries in thickly populated areas.
  - b) Various types of underground utilities
  - c) Encroachments in the proposed alignment.
  - d) Non Development of DP roads.
3. Unavailability of Machine Spare parts (Imported Machines) in India
4. Rescue pits taken consume more time for excavation due to uncertainty in soil strata.
5. Narrow width of Roads.



6. Uncertainty in Geological Strata/extremely Hard Rock.
7. Sub-soil Water and Tidal Effect.
8. There are densely populated informal settlements / slums that are spread haphazardly, where the roads are extremely narrow and sharp turns. The sewers are required to be laid at great depth with proper gradient to ensure smooth flow under gravity and the structures in these settlements are raised without any proper foundation hence, digging at greater depths are a risk to these structures. All these conditions make it difficult to lay sewers in slums.
9. Delays due to Covid -19 Pandemic and Lockdown restrictions in the City of Mumbai.

**4. Guidelines issued in O.A. No.426 of 2018 Mushi River and O.A. No.829 of 2019- Coastal Pollution, directions issued are not followed and violation of the same, State PCB is directed to proceed in accordance with the Law for realization of environmental compensation.**



EE. It is respectfully submitted that the actions taken under the above mentioned directions are already averred to in

compliances to Direction 3, herein above and the same are not being repeated for the sake of brevity.

5. **100% treatment of sewage may be ensured as directed by the Principal Bench of the Tribunal vide order dt.28.08.2019 in O.A. No.593 of 2017, Paryavaran Suraksha Samiti and Anr. V/s Union of India and ors. For completing all steps of action plans including completion of setting upto STPs till 31.03.2021 in terms of order dt.8.04.2019, in case of default, compensation laid down in the order of the Principal Bench of the Tribunal dt.22.08.2019 in the case of River Ganga i.e. Rs.10 lacks per month STP.**

FF. Colaba WWTF of 37 MLD capacity is commissioned and put in operation from April 2020. In Colaba WWTF guidelines given by Hon. NGT regarding discharge norms are followed. In this plant there is a provision of tertiary treatment of 37 MLD. This tertiary treated waste water will be used for non-potable purposes.

GG. The efforts taken by MCGM to upgrade/construct the STPs is given as under:



21.04.2015 CPCB issued directions regarding change of effluent discharge standards. Tenders

for STPs at Colaba, Bhandup and Ghatkopar which were invited as per the 2012 norms got annulled. Respondent then floated tender for the 37 MLD Colaba STP in consonance to the 2015 discharge standards prescribed by CPCB directives.

09.10.2015 CPCB issued fresh directions with regards to treatment and utilization of sewage for restoration of quality of water in river.

(BoD<10 mg/L, TSS<10 mg/L, FC<230 MPN/100ml).

24.11.2015 MoEF vide **Draft** Notification dated 24.11.2015 issued fresh effluent discharge standards for sewage treatment plants along with time frame for implementation (i.e. within 5 years)

(BoD<10 mg/L, TSS<20 mg/L, FC<100 MPN/100ml)

Respondent again amended and finalized its earlier tender floated for Colaba STP with the norms prescribed by Draft Notification dated 24.11.2015. The said



tender was finally opened in December 2015 and the same was awarded in June 2016 based on the prevailing standards and is completed for carrying out operations of Waste Water Treatment in April 2020.

17.05.2016 The then Municipal Commissioner, vide letter dated 17.05.2016 sought clarification on draft notification dated 24.11.2015 from CPCB, on the applicability of the discharge norms, since the discharge standards changed three times within a period of 9 months.

23.06.2016 CPCB vide letter dated 23.06.2016 gave clarification in respect of time line and discharge standards. However, the said clarification did not clarify with regards to discharge standards for effluents into the deep sea, through Marine Outfall. It is to be noted here that the Respondent proposed to carry out the Sewage Waste Treatment through the technology of deep Marine Outfall and hence clarification on the same was necessary and important for the Respondent Corporation before floating and issuing any further tenders.



21.07.2016 Respondent sent another letter dated 21.07.2016 to MoEF seeking Clarification on the issue of standards for effluent discharge into the sea through Marine Outfall, standards for effluent discharge into the creek, standards for non-potable / industrial use of treated waste water and power generation.

05.07.2017 The then Municipal Commissioner, vide another letter dated 5.07.2017 addressed a letter to Secretary, MoEF& CC for expediting the issues in respect of Discharge standards for waste water treatment facilities to be set up in Mumbai. It was stated in the letter by the Ld. MC that Respondent have prepared Sewerage Master Plan for upgrading the Waste water Treatment Facilities (WWTF) in Mumbai to improve the Environment of Mumbai and its coastal areas & implementation of the same is taken up in hand under Mumbai Sewage Disposal Project in line with the same. However, there is a need for finalisation of discharge standards for STP's. It was also stated that Respondent had sought



clarification on this issue vide various written communication and discussions. It was also stated that Respondent had already invited tenders for 2 WwTF's and draft tenders for other 4 WWTP works are ready for invitation based on draft notification/directives from CPCB; however, unless final directives in respect of discharge standards of sewage into coastal water are decided by CPCB, these tenders can't be finalized nor can work be started. Therefore, Respondent Corporation requested to expedite and finalise the issue and communicate the decision in respect of discharge standards for STPs in Mumbai.

13.10.2017 That MoEF issued Notification G.S.R. 1265(E) dated 13.10.2017 revising the effluent discharge standards. (BoD<20 mg/L, TSS<50 mg/L, FC<1000 MPN/100 ml.) The said Notification for the first time included in its Note the Effluent Standards for Deep Marine Outfall.

Pursuant to the said Notification, **Respondent annulled all its earlier**



tenders floated for Bhandup and Ghatkopar STPs and invited fresh tenders for Bhandup, Ghatkopar, Worli, Bandra, Dharavi, Versova WwTF in January/February 2018. (Total ADWF capacity-1842 MLD; Estimated Construction Cost of Rs. 10,000/- Crores approximately.) These tenders were received in November 2018. Packet A and Packet B of all the tenders were opened. Packet C of Versova&Dharavi tenders were opened.

21.12.2018 During pendency, finalization and Award of above tenders, Hon'ble NGT vide its Order dated 21.12.2018 in O.A. No. 1069/2017 [Nitin Shankar Deshpandevs Union of India &Ors.] granted stay of the MoEF& CC notification dated 13.10.2017 and constituted an Expert Committee (comprising of 1 members of IIT Roorkee, 1 member of IIT Kanpur & 1 member of Director NEERI) for preparing a report within two months after going into various aspects of the alleged dilution of norms and its likely impact on the recipient environment and public health.



30.04.2019 This Hon'ble Tribunal disposed of O.A. No. 1069/2017, accepted report of the Expert Committee with the modification and prescribed revised effluent discharge standards (BoD<10 mg/L, TSS<20 mg/L, FC<100 MPN/100 ml.)

Respondent was again forced to annul all its tenders for Worli, Bandra, Dharavi, Versova, Bhandup and Ghatkopar STPs in July 2019 which were invited in January/February 2018 based on MoEF&CC Notification dated 13.10.2017.

13.05.2019 Respondent filed Civil Appeal No. 5036/2019 against the Order dated 30.04.2019 passed this Hon'ble Tribunal setting aside the norms set out by Notification dated 13.10.2017 and the timeline to establish / setup new STPs.

17.05.2019 Hon'ble Supreme Court vide Order dated 17.05.2019 directed Respondent to proceed with the tendering but it shall abide by the effluent discharge standards prescribed by the Expert Committee appointed by NGT in its report.



06.09.2019 It is most respectfully submitted that, thereafter, Respondent Corporation invited tenders for STPs at 7 locations, namely, Worli, Bandra, Dharavi, Versova, Malad, Bhandup and Ghatkopar in consonance with Order dated 17.05.2019 passed by Hon'ble Supreme Court, by publishing it on NIC portal (i.e. [www.mahatenders.gov.in](http://www.mahatenders.gov.in)).

During budget review, shortage of revenue income was reported by Respondent Corporation. Respondent Corporation, therefore decided to review the tenders based on the queries from prospective bidders and to reinvoke the tenders. Accordingly, all tenders were cancelled in January 2020.

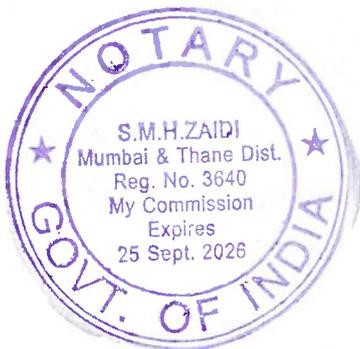
30.04.2020 Respondent Corporation reviewed tender documents expeditiously, even during lockdown period due to outbreak of Covid 19 pandemic when there were restrictions on movement of traffic, shortage of manpower, etc. and invited 6 STP tenders (except Dharavi STP) on 30.04.2020. Dharavi STP tender was held back to in order to explore feasibility of



accommodating additional dry weather flow of about 168 MLD entering into the Mithi River from Bapat Nalla and Safed Pul Nalla.

During pendency and finalization of this tendering process, guidelines were issued by the Ministry of Finance, GOI imposing restrictions on bidders sharing land border with India. This has impact on the participation of bidders and technology providers in the floated tenders.

In this changed scenario, it was necessary to incorporate certain changes in the tender conditions by revisiting post qualification criteria and making rational allotment of land across all bids to preserve land for future use. As such detail review of tender documents is carried out and it was decided to cancel all STP tenders and reinvoke the same immediately by incorporating necessary changes. Accordingly, all 6 STP tenders were cancelled in the first week of August 2020.



31.08.2020 All 7 STP tenders were reinvited with revised tender documents and estimates on 31.08.2020. Capacity of Dharavi STP was increased from 250 MLD to 418 MLD to accommodate additional 168 MLD flow to be diverted from entering the Mithi River.

The summary of chronology of tender process is given below:

**Chronology of Tender Process**

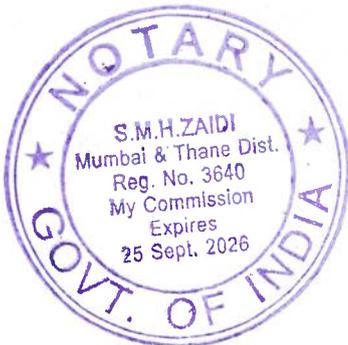
**Table Number-14**

Year	Actions by MCGM	Status
2015	Colaba Bid	Awarded in 2016 and commissioned in April 2020.
2018 Jan /Feb	Bids for Bhandup, Ghatkopar, Versova, Dharavi, Bandra and Worli, WwTF invited.	Effluent standards revision by NGT on 30.04.2019. Bids cancelled.
2019 Sept.	Bids reinvited for above plants with new effluent standards.	Process annulled due to rethinking of policies and award strategy based on pre-bid queries.
2020 April	Fresh Bids for Worli, Malad, Bandra,	Dharavi excluded as 168 MLD dry weather flow of Mithi River is



	Ghatkopar, Versova and Bhandup are being invited.	proposed to be treated there. During pendency and finalization of this tendering process, guidelines were issued by the Ministry of Finance, GOI imposing restrictions on bidders sharing land border with India. This has impact on the participation of bidders and technology providers in the floated tenders. Hence, these tenders were annulled.
2020 August	Fresh Bids for Worli, Malad, Dharavi, Bandra, Ghatkopar, Versova and Bhandup are invited.	Except Malad, all other bids price packets opened and are under scrutiny. Malad tender is cancelled as there was no response from bidders.

Pre-bid meeting was conducted on 22.09.2020. Responses to pre-bid queries and Addendum are uploaded on NIC portal ([www.mahatenders.gov.in](http://www.mahatenders.gov.in)) and price packets of all these tenders, except for Malad, are opened and same are under scrutiny. Tender for Malad is cancelled, as there is no response



received from the bidders. The Tender for Malad WWTF is being reinvited in the due course of time.

The details of STP works for which tenders are already invited are as under:

**Table Number-15**

Sr. No.	Name of WwTF	Plant capacity in MLD	Tertiary Treatment	Design, Build Period in years	**Expected Date of completion
1	Worli	500	250	5	31.03.2026
2	Bandra	360	180	5	31.03.2026
3	Dharavi	418	209	5	31.03.2026
4	Versova	180	90	4	31.03.2025
5	Malad	454	227	6	31.05.2027
6	Bhandup	215	108	4	31.03.2025
7	Ghatkopar	337	170	4	31.03.2025
	<b>Total</b>	<b>2464</b>	<b>1234</b>		

**\*\*Note:** Above timeline was given at the time of filing Civil Appeal before the Hon'ble Supreme Court on 16.03.2021. However, subsequently due to severe second covid wave especially in Mumbai and Maharashtra, the process could not be completed. Also, there was severe shortage of oxygen and major



engineering staff was deputed for taking necessary measures such as procurement of oxygen, jumbo care facilities, vaccination drives and additional oxygen bed facilities at hospitals and procurement of required materials on war footing. Even engineers were deputed for airport duties for covid related works. Lockdown was declared by Govt. of Maharashtra. Similar situation prevailed in other parts of India and there were travel restrictions.

Also, as the offers received from the lowest bidders were on higher side as compared to base estimates, Peer Review Committees were constituted for review of base estimates.

Due to lockdown in many parts of India, bidders could not provide cost breakup and presentation to the department and Peer Review Committees. So far, 245 number of MCGM employees lost their life due to Covid. MCGM has also taken necessary steps to mitigate the situation in case of third covid wave, including provision of pediatric wards. Even today MCGM engineers from various



departments are involved in covid duties. Nevertheless, all efforts are being made to evaluate the offers received for various STP tenders and conclude the tendering process at the earliest.

HH. From the above events it can be seen that the Respondent has put in continuous efforts for setting up of the STPs. However, due to frequent changes in discharge norms done by the authorities and the worldwide outbreak of Covid-19 since January 2020, the same could not be finalized.

**Major Events influencing Tender Process:**

**Table Number-16**

<b>Date</b>	<b>Event</b>	<b>Agency</b>	<b>Effluent standards Prescribed at each event</b>
24 Nov 2015	Draft Notification	MoEF& CC	BOD < 10mg/l TSS <20 mg/l
13 Oct 2017	Notification No.843	MoEF& CC	BOD < 20mg/l TSS <50 mg/l
21 Dec 2018	Stay on Ministry's notification	National Green Tribunal	Expert committee appointed
30 April 2019	Final Order	National Green Tribunal	BOD < 10mg/l TSS <20 mg/l



II. The tender for the work of WWTF at Worli, Bandra, Dharavi, Versova, Bhandup & Ghatkopar are received and the same are under scrutiny. The technical packets and

financial packets of all these tenders are opened and same are being scrutinized by MCGM Engineers & consultants appointed for the same. As the offers received are on higher side as compared to base estimates, the same are also being scrutinized by Peer Review Committees. The details of Peer Review Committee meetings held are at ANNEXURE - V.

**Table Number-17**

Sr. No	Name of WWTF	Number of Tenders Received
1	Worli	3
2	Bandra	3
3	Dharavi	3
4	Versova	4
5	Bhandup	3
6	Ghatkopar	3

JJ. The tender for Malad WWTF was cancelled as there was no response received from the bidders. The same is being reinvited shortly. Forest Department Stage I clearance for Malad WwTF was received on 22.08.2019 and proposal for stage II clearance was submitted. Necessary payment was made to mangrove foundations as per condition of CRZ clearance. Final stage II clearance from Forest department is still awaited from regional office WCZ Nagpur, MOEF & CC. Necessary follow up is being done by MCGM with forest department.



KK. It is most respectfully submitted that each time Effluent Norms are changed the following changes are to be made to the existing plant or in the Tender Conditions:

- The volume / size of the tanks (primary and secondary treatment process) will need to be increased to ensure removal of solids and biomass
- The size of the equipment at each stage (aeration, pumping, and sludge removal) would change in order to cater to the higher requirements of removal of solids.
- The above will have impacts on the electrical systems which also require modifications to suit the higher power demand.
- Most of the technologies will require additional stage or stages to attain the improved standard. These stages include additional oxidation requirement and or special filtering mechanism like disc filter etc.
- Inclusion of an additional stage in between could change the hydraulic profile of the older scheme which may introduce additional pumping requirements.



- Because of the reduction of TSS and BOD, there will also be increase in the sludge volume to be handled, treated and disposed.
- The change of standards to stricter side means higher capital cost and also higher operation and maintenance cost.
- In this process, the MCGM also had to spend additional costs for Consultancy services. MCGM has already made extra payment to the consultant for additional works carried out by them on account of re-invitation of tenders. Moreover, due to extension of the contact period of consultants the clause of escalation will be applicable, which will add extra cost to MCGM.
- Moreover, change in Faecal Coliform norms from <1000MPN/100ml to <100MPN/100ml would also require change in disinfection methodology and addition of equipment like UV system.

LL. For the above reasons, the sizing of the plant components for BOD <20, TSS<50 cannot be readily used for the requirements of meeting BOD<10, TSS<20 mg/L standards. It is most respectfully submitted that due to the complications involved in managing the current



operation at almost all plants, the implementation of a project for Mumbai will take 4 to 5 years. If the tenders were awarded as per the earlier norms, in order to achieve the change in discharge standards, MCGM would have to negotiate with the contractors to upgrade the plants as per revised standards. As the tenders were called on design and build basis, the complications in negotiations due to change in discharge norms would have incurred much higher costs for Respondent in absolute terms. (As per FIDIC conditions in change of technology, the client is expected to pay for the costs for the design changes alongwith the costs for implementation). Hence, the tenders invited as per discharge norms (BOD <20, TSS<50) were annulled and fresh tenders are invited as per revised discharge norms stipulated by Hon'ble NGT.

MM. As per notification u/no. GSR 1265(E) dated 13.10.2017 issued by MOEF & CC, 5 years time was granted i.e., upto October 2022 to implement discharge standards i.e., BOD <20mg/l, TSS <50mg/l. Hon'ble NGT vide order dated 21.12.2018 in O.A. no. 1069/2017 granted stay on MOEF & CC notification dated 13.10.2017 and



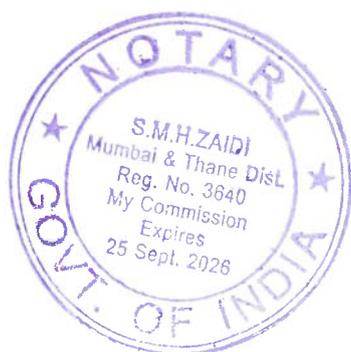
constituted an expert committee for preparing a report within 2 months after going into various aspects of alleged dilution of norms and its likely impact on the recipient environment and public health. The Expert committee, constituted by Hon'ble NGT, suggested to construct STPs with revised standards within 7 years from the date of notification from MOEF &CC.

This Hon'ble Tribunal vide Order dated 30.04.2019 was pleased to partly accept the report filed by the Expert Committee. Although the Standards prescribed were accepted, the timeline of 7 years to upgrade / construct the STPs was rejected. This Hon'ble Tribunal was pleased to direct the MoEF & CC to issue Fresh Standards within One month from the date of the Order. That instead of issuing fresh standards MOEF & CC had also challenged the Order passed by this Hon'ble Tribunal before the Hon'ble Supreme Court, which is pending as on date. Till date, MOEF & CC has not issued any notification. Nevertheless, MCGM is abiding by the latest discharge norms stipulated by this Hon'ble Tribunal while issuing its Tenders.

**NN. Difficulties being faced by the Respondent Corporation in Award of Tenders for setting up of STPs:**



- i. High Price bid quoted by the bidders.
- ii. The role of the technology provider is important and there was delay in response from the technology provider due to the emergent pandemic situation.
- iii. Respondent manforce and officials being pre occupied in serving severe second wave of COVID-19 in Mumbai.
- iv. Imposition of Strict lockdown in Mumbai to slow the transmission of Covid-19. Respondent Corporation was working on minimum strength.
- v. Covid wave affected all and the bidders who were not able to supply the clarifications requested by the MCGM, in time. Some Bidders had foreign collaborators and there was delay in response due to pandemic and closure of International borders.
- vi. Due to surge in Covid-19 wave since March 2021, there was limitation in inviting the tenders, which were planned earlier.
- vii. Even the ongoing works were affected due to non-availability /shortage of manpower, machineries, material and industrial oxygen.
- viii. The considerable time was consumed in verification of bids, financial packets, legal verification and court matters etc.

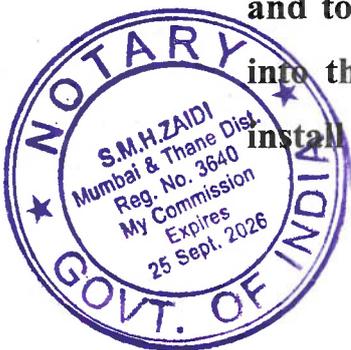


ix. There are space restriction for construction of new STPs and the work is to be carried out by keeping in operation & maintenance of existing WwTF facilities till the commissioning of new STPs, which is very challenging task.

OO. In the normal circumstances, if the price bids become fair & reasonable; the 6 tenders in table no. 17, which are under finalization process, would take about 6 to 8 weeks to complete all procedural activity / requirements to issue work order.

**6. Municipal Corporation of Greater Mumbai should ensure the mangrove area is kept to plastic free zone. It is recommended to install Trash Boom or Trash Trap for collection of floating plastic and other wastes & its disposal. Natural streams used as Sewage canals should be stopped and restoration should be carried out; &**

**Respondent No.1 is directed to implement the Maharashtra Non-Bio-Degradable Garbage (Control Act) 2016 and to install nets in Sewage Storm Discharge Drain to stop Sewage Solid Waste from entering the sea along with the Solid Waste and to ensure that no untreated water discharged into the sea level. Respondent No.1 is directed to install mobile public toilet after identifying the**



**areas close to beaches where open defecation is rampant.**

PP. It is important to mention here that the Mangroves, as a subject matter, are dealt by the State Government, through a separate Mangrove Cell and the entire Mangrove area comes under them for the purpose of management, upkeep and protection.

QQ. However, in view of the directions issued, by this Hon'ble Tribunal, steps have already been taken by the Respondent Corporation for the purpose of installing Trash boom/ trap for collection of floating matter.

RR. However, in view of the directions issued the Respondent Corporation, to take appropriate steps/action organized a joint co-ordination meeting at its office on 30.07.2021 which was duly attended by the representatives / officers of MPCB, CPCB and Mangrove Cell (State Government), Thane Municipal Corporation, Navi Mumbai Municipal Corporation and the said matter was discussed in detail for implementation of the direction passed by this Hon'ble Tribunal.

SS. In addition to the above measures, following actions are being taken by Respondent Corporation to stop Solid Waste from entering the sea along with the Sewage Waste



and to ensure that no untreated water discharged into the sea level:

- a. In MCGM jurisdiction, at 323 locations 468 nos. of receptacle are placed along SWD Nallahs for deposition of garbage, which are regularly attended.
- b. During the period of 1 Jan 2020 to 31 March 2021, the no. of cases registered for the offence of throwing garbage in Nallahs is 1961 nos. Further during the period of 1 April 2021 to 31 October 2021, the no. of cases registered for the offence of throwing garbage in Nallahs is 1302 nos. During the period of 1 Jan 2020 to 31 March 2021, fine of Rs.6,73,200/- is recovered for the offence of throwing garbage in Nallahs. Further, during the period of 1 April 2021 to 31 October 2021, fine of Rs. 3,12,300/- is recovered for the offence of throwing garbage in Nallahs.
- c. Respondent Corporation have deployed 96 nos. of vehicles exclusively to collect dry waste which is transported to 46 nos. of Dry Waste Segregation Centres. The dry waste is segregated into different types of dry waste



such as plastic, metal, glass etc. The segregated plastic is sent to the waste recyclers by the sansthas operating these Dry Waste Segregation Centres. The Dry Waste Segregation Centres are authorized and are instructed to obtain required permissions from competent authorities, if any.

- d. Respondent Corporation provides services of cleanliness and toilets at following beaches:

**Table Number - 18**

<b>Location</b>	<b>No. of Toilets</b>	<b>No. of Seats</b>
Girgaon	2	18
Dadar Mahim	5	28
Juhu	3	32
Versova	3	16
Versova Extension	2	12
Madh Marve	2	9
Manori Gorai	1	6
<b>Total</b>	<b>18</b>	<b>121</b>

- e. Mobile Toilet Unit consisting of 3 seats for Gents, 3 seats for Ladies and 1 seat for Handicapped is proposed.

The no. of units proposed are as follows:



66

Girgaon – 2 Nos.

DadarMahim – 8 Nos.

Juhu – 8 Nos.

Versova – 4 Nos.

Versova Extension – 1 No.

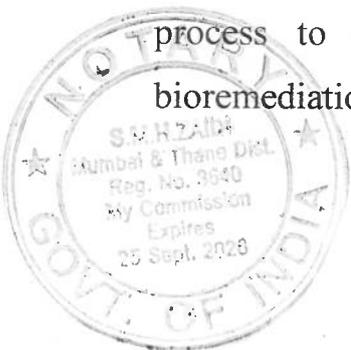
MadhMarve – 2 Nos.

ManoriGorai – 2 Nos.

Tender for installation of the Proposed 27 nos. of toilets with 189 no. of seats is floated with due date as 29.10.2021 and the completion period of 4 months. **The work is expected to be completed by 31.03.2022.**

7. **The report submitted by the IIT Mumbai for MTHL project regarding pollution level is accepted. The MCGM are directed strictly to comply and execute it and time bound action plan be implemented.**

TT. As submitted in para 3 herein above, measures for abating pollution of 4 major rivers is being taken by Respondent Corporation. For remaining 48 SWD drains which are connecting to Creek and Sea tendering work is in process to appoint the consultants for suggestion on bioremediation and/or phytoremediation or any other



remedial measures for treatment of sewage water flows and technology for removal of floating material in the storm water drains. The remedial measures as suggested by the consultants will be implemented at the earliest. The expected date of appointment of consultant will be May 2022 subject to proper response from the bidders.

UU. MTHL project is executed by MMRDA. The creek around MTHL is in the jurisdiction of TMC, NMMC and partly in MCGM area.

- 8. The pipelines which are directly releasing domestic sewage in the water bodies, creeks and wet land without treatment must be removed or connected to the STP.**

VV. It is most respectfully submitted that there are no sewerage line discharging domestic sewage in Water bodies, creeks and wetland within the vicinity of Respondent Corporation. As submitted in above point no. (3), Respondent is taking efforts to improve sewerage facility in city of Mumbai under component III of MSIP works for abating pollution of major 4 rivers are already proposed /in progress. (Table number – 5, 6, 9 and 10)



- 9. According to the parameter laid down and calculation as mentioned above / in the order the**

**MCGM is liable to pay environmental damage for discharge of untreated sewerage water into the water bodies at the rate of Rs.4.25 crores per month and arrears of Rs.29.75 crores. The MCGM is directed to pay the amount of Rs.29.75 crores to the account of CPCB within 30 days from today and ensure to regularly pay Rs.4.25 crores per month till the bio-remediation or Phytoremediation measures are taken by the authorities concerned. If remediation or treatment of the water of sewage water is taken, it will be reduce at the rate of Rs.5 lakhs per month per drain systematically. The state PCB is directed to calculate and do the needful according to law from time to time.**

WW. It is most respectfully submitted that Respondent Corporation being aggrieved by the monetary compensation levied by this Hon'ble Tribunal has filed Civil Appeal No. 923/2021 before the Hon'ble Supreme Court. That vide Order dated 28.06.2021 the Hon'ble Supreme Court was pleased to Issue Notice in the captioned matter along with the Application for stay of Order dated 14.10.2020. That the matter is subjudiced before the Hon'ble Supreme Court and pending consideration.

XX. It is reiterated that the Hon'ble Supreme Court vide Order dated 13.08.2021 was pleased to direct the Municipal



Commissioner of the Municipal Corporation of Greater Mumbai to file an affidavit before this Hon'ble Tribunal categorically indicating the steps which have been taken to comply with the directions of this Hon'ble Tribunal, particularly in regard to ensuring compliance with the requisite standards for the discharge of effluents including municipal waste and sewage. The affidavit shall set down a concrete plan of action for the future. This Hon'ble Tribunal may consider the affidavit and the steps which have been taken to ensure compliance.

**10. The BMC is further directed to ensure that there should not be any water logging during the rainy seasons and the sewage line or water connection which are discharging the water from the city must be regularly monitored so that there should not be any blockage in the flow of the water and accordingly as per above direction the Original Application No.197/2017(WZ) is disposed of.**

YY. The anti-flooding measures taken by MCGM are explained in detailed in para II above.



**11. Compliances with regards to the conclusion of  
CPCB's report:**

<b>CPCB Conclusions in Para 6 of the Order dated 16.07.2021</b>	<b>MCGM Remarks</b>
<p><b>1. There is gap of about 31.29 % between sewage generation and sewage collection by MCGM and it can be said that about 997.5 MLD untreated sewage is ultimately discharged in creeks (not marine outfall). The MMC has consented provision for treatment of about 2727 MLD sewage. But it may be said that these facilities are not used at full capacity mainly due to poor sewage collection infrastructure.</b></p>	<p>It is respectfully submitted that there is water supply of 3750 MLD to entire MCGM limit. Out of that there is 27% water loss due to leakages in water supply networks. Thus, the actual water supply works to 2737.5 MLD. Considering sewage generation at 80% of water supply, it works out to 2190 MLD. As against there is provision for treatment of about 2723 MLD.</p> <p>To collect entire sewage generated and treat it as per discharge norms given by Hon'ble NGT, various projects under taken by MCGM are as under.</p> <p>a. Upgradation and construction of New STPs.</p>



	<p>(Refer to paragraph Q to T and FF to OO of this Affidavit)</p> <p>b. Laying of sewer networks (MSIP I and II) (Refer to paragraph U to T of this Affidavit)</p> <p>c. Diversion of dry weather flow (MSIP III) (Refer to paragraph U to T of this Affidavit)</p>
<p><b>2. Out of 08 sewage treatment facilities of Mumbai, 03 facilities discharges their effluent through marine outfall and rest 05 facilities discharges their effluent through shore discharge in creeks.</b></p>	<p>It is most respectfully submitted that the CPCB officials had visited all 8 STP's in Mumbai on 10.11.2020 and 11.11.2020 as per order of Hon'ble NGT dated 14.10.2020 in O.A. No. 197/2017. Based on their visit, CPCB submitted observation regarding all 8 STP's. The remarks from Respondent Corporation to all points raised by CPCB were replied vide letter under signature of DMC (E) u/no.</p>



DMC/E/2893 dated  
17.03.2021.

In this regard, it may be noted that STPs at Worli, Bandra, Versova, Malad, Ghatkopar and Bhandup were constructed and commissioned from 1992 to 2003, based on discharge norms in vogue at that time. Now, as per this Hon'ble Tribunal's order dated 30.04.2019 passed in O.A. No. 1069/2018, Fresh tenders for upgradation/construction of STPs at Worli, Bandra Versova, Malad, Ghatkopar and Bhandup are invited. As Major capital investments are being carried out in construction of new STPs with updated technology; hence, existing STPs are being upgraded as per new discharge norms and the said STPs shall be shut down in



due course. Therefore, no major capital expenditure is being done nor any design changes are being carried out in existing plants in order to avoid wasteful expenses. However, all these STPs are operated and maintained as per prevailing consent of MPCB valid upto December 2020. The reports of the NABL accredited laboratory, showing operational performance of all STPs for the period of January to August 2021 are attached as **ANNEXURE - VI**.

Moreover, it is the responsibility of the lowest bidder to operate and maintain existing STP facility after issue of LOA.

The latest consent for period from 1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2023 is in line with the guidelines issued by



	Hon'ble NGT and the same are considered while inviting tenders for upgradation of STPs.
<b>3. For the treatment of collection sewage (2190 MLD), there are eight sewage treatment facilities in MMC area. Out of 08 sewage treatment facilities, 02 are STP. Rest 06 sewage treatment facilities especially having creek shore discharge do not have capacity to meet the notified standard of sewage treatment even after the grace period of 05 year i.e. year 2022 as per GSR 1265 (E) dated 13.10.2017 notification. Therefore, full-fledged STP are required.</b>	As per GSR 1265(E) dated 13.10.2017 notification, MCGM annulled tenders floated for Bhandup and Ghatkopar STPs and invited fresh tenders for Bhandup, Ghatkopar, Worli, Bandra, Dharavi and Versova in January–March 2018. In this notification, MOEF & CC had granted time of 5 years i.e., upto October 2022 to implement these discharge standards. During finalization of these tenders, Hon'ble NGT vide order dated 21.12.2018 in O.A. no. 1069/2017 granted stay on MOEF &CC notification dated 13.10.2017 and constituted an expert committee for preparing a



report within 2 months after going into various aspects of alleged dilution of norms and its likely impact on the recipient environment and public health. The Expert committee, constituted by Hon'ble NGT, suggested to construct STPs with revised standards within 7 years from the date of notification from MOEF & CC. However, till date, MOEF & CC has not issued any notification, in fact, the Union of India has preferred an Appeal against the said Order being Diary No. 11356/2020. Nevertheless, MCGM is abiding by the latest discharge norms stipulated by Hon'ble NGT.

Subsequently, Hon'ble NGT accepted the report of expert committee and prescribed revised effluent discharge



	standards(BOD <10mg/l, TSS <20mg/l).Hence, as per this order of Hon'ble NGT dtd 30.04.2019, MCGM has floated tenders for upgradation/construction of STPs as per the revised effluent discharge norms given by Hon'ble NGT.(Refer to paragraph Q to T and FF to OO of this Affidavit)
<b>4. Grit treatment before disposal is required otherwise it will be a potential source of 20pathogenic contamination ad pollution at the location where it is dumped.</b>	The necessary clauses regarding proper disposal of grit, are added in the technical specifications of the tenders invited for the STPs.
<b>5. MMC has prepared action plan for upgradation of STPs. It is estimated that about 2464 MLD sewage treatment upto secondary level and tertiary treatment upto 1234 MLD is</b>	The details for upgradation /construction of STPs are already given. (Refer to paragraph Q to T and FF to OO of this Affidavit)



<p>proposed but the targeted completion year would be the year 2026.</p>	
<p><b>6. Precise inventory of natural drains and its use as raw wastewater discharge should be prepared by MMC and accordingly action plan in this regard should also be prepared for diversion of wastewater from natural drains to proposed sewage treatment plant. Several unorganized human settlement can be observed along bank of creeks and natural drains which are potential direct source of sewage discharge to creeks. Such area should also be made part of sewer network and sewage conveyance to STP treatment.</b></p>	<p>Out of 95 SWD drains/ Nallas which carries waste water,</p> <p>a) MCGM has diverted Part dry weather flow of LGP nalla to Worli waste water treatment plant and also planned to take the entire dry weather flow in proposed work of augmentation of Worli waste water treatment facility.</p> <p>b) Also the dry weather flow of Haji Ali Nalla is diverted to sewer network.</p> <p>c) 42 SWD drains/ Nallas which are connecting to the rivers where rejuvenation work of rivers is undertaken and is expected to be completed between 2022 to 2025.</p> <p>d) For remaining 48 SWD drains which are connecting</p>



	<p>to Creek and Sea tendering work is in process to appoint the consultants for suggestion on bioremediation and/or phytoremediation or any other remedial measures for treatment of sewage water / waste water flows and technology for removal of floating material in the storm water drains. The remedial measures as suggested by the consultants will be implemented at the earliest. The expected date of appointment of consultant will be May 2022 subject to proper response from the bidders.</p> <p>The necessary plans for 100% coverage of sewerage is described in <b>paragraph U to DD.</b></p>
<p><b>7. Based on the available information, it is calculated that MCGM should deposit</b></p>	<p>Project of upgradation/construction of STPs is delayed due to</p>



<p><b>Rs. 210,00000/- (Rupees Two crore ten lacs only) as environmental compensation for the damage caused to the environment due to partial treatment of sewage.</b></p>	<p>frequent changes in effluent discharge norms as described in the table at the beginning of the note. Existing STPs are constructed and commissioned from 1992 to 2003 based on the discharge norms in vogue.</p> <p><b>In this regard, MCGM has filed Civil Appeal No.923/2021 before the Hon'ble Supreme Court along with prayer of Stay.</b></p>
<p><b>8. Faecal coliform is required to be regularly monitored in all the sewage treatment facility having shore discharge facility.</b></p>	<p>The necessary condition to limit faecal coliform as per new discharge standards is included in the technical specifications of STP tenders.</p>
<p><b>9. Time bound action plan with key performance indicators for review of the progress may be devised by MCGM for self-assessment from time to time as well as submission of progress to SPCB.”</b></p>	<p>Periodical review of the progress of ongoing and proposed works is being taken regularly.</p> <p>In this regard, it is to be submitted that all the ongoing and proposed works of MCGM are delayed due to</p>



	COVID-19 pandemic and subsequent lockdowns imposed by Central Govt. and GoM.
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**12. Issue raised by the Applicant with regards to officer / contractor caught disposing of cement in the creek:**

ZZ. That the incidence dated 20.05.2021 mentioned by the Respondent in its Execution Application No. 6/2021 of a truck commissioned by the Respondent Corporation was caught red-handed discharging cement directly into the creek near Bhandup is incorrect and misleading. It is submitted that Respondent's team / vehicle was working at Azad Nagar in 'T' ward on the instant day. There was abnormal flooding due to Tauktae cyclone and during the operation (working) the vehicle had sucked mainly flooded storm water which was muddy and sedimentary. This muddy water was released by the vehicle in the nallah in Bhandup. No cement was discharged into the water body by the Respondent. It may be noted here that on the representation submitted by the Respondent Nos. 1&2 the concerned operator / staff of Respondent was called for and, on the explanation, offered by the concerned officer, he has been instructed to take proper care while carrying out such activities.



AAA. For Wadala incidence, a penalty of Rs. 10,000/- is imposed on contractor M/s. Bucon Engineers & Infrastructure Pvt. Ltd. Further, warning letter is issued to the contractual agency and compliance report is submitted to MPCB. The staff has been instructed to keep vigil at this and other such locations to prevent and stop similar offences.

### 13. Delay in 2020-2021 due to Covid:

BBB. It is most respectfully submitted that due to pandemic and subsequent lockdowns imposed by Central Government and State Government, the overall processing of STPs tenders were hampered, as the bidders from different parts of India participated in the tendering process. Moreover, certain technologies and equipment's proposed in the bids received were of International make, so there were certain limitations on the side of the bidders to get necessary information during pandemic. Hence, the due dates for submission of the tenders were required to be postponed on many occasions as per the request of prospective bidders. Also, the pace of evaluation process got hampered as consultant's offices were closed, bidders could not arrange presentation due to 2<sup>nd</sup> wave of Covid-19.



CCC. It is a well-known fact that Mumbai and Maharashtra was badly affected by Covid-19. Respondent had to depute its existing Engineering staff for management of Covid-19

control related activities since 22<sup>nd</sup> March 2020, as top priority was to be given to this activity. Incidentally, it is to be mentioned that Hon'ble Supreme Court had recognized the efforts taken by MCGM for the steps taken to control the Covid-19 pandemic. Cognizance of the same was also taken by WHO and US Government.

14. It is submitted that during the pandemic the focus of the Respondent Corporation was to provide healthcare facility in various Jumbo facility Centers / Hospital / Wards and CCC-1 and CCC-2 for care and treatment of Covid Patients. It may be noted that to combat the pandemic, Respondent has incurred a humongous cost of Rs.3024.84 crores. There is a possibility of third wave of Covid Infection in India and to tackle the same, more investments is being done by the Respondent Corporation to fortify the medical infrastructure in Mumbai.

15. It is most respectfully submitted that following are the difficulties encountered by the Respondent while executing the Directions passed by this Hon'ble Tribunal:

- a. Some of the stretches are affected by the encroachments, pending court cases, acquisition matters etc.



- b. Due to severe second wave of COVID-19 in Mumbai, strict lockdown was imposed.
- c. The considerable time was consumed in verification and court matters etc.
- d. Existing Engineering staff is deputed for management of Covid-19 control related activities since 22nd March 2020, as top priority was to be given to this activity. Considering the possibility of third wave, the engineering staff is still deputed for Covid related works and making provision of medical oxygen for emergency situation.
- e. Delay in obtaining various N.O.C.'s from different external organization like Environmental clearance, CRZ permission, Traffic Police, MMRDA, Railway, PWD, MoEF etc.
- f. Restricted use of heavy machineries in thickly populated areas.
- g. Encroachments in the proposed alignment.
- h. Non Development of DP roads.
- i. Rescue pits consume more time for excavation due to uncertainty in soil strata.
- j. Narrow width of Roads.
- k. Uncertainty in Geological Strata/extremely Hard Rock.
- l. Sub-soil Water and Tidal Effect.
- m. Covid wave affected all and the bidders who were not able to supply the clarifications requested by



the MCGM, in time. Some Bidders had foreign vendors and their ability to respond in time was severely affected due to the lockdown.

- n. Due to surge in Covid-19 wave since March 2021, there was limitations in inviting the tenders, which were planned earlier.
- o. Even the ongoing works were affected due to non-availability /shortage of manpower, machineries, material and industrial oxygen.

16. It is most respectfully submitted that the Respondent is making all efforts possible to eradicate the sewerage issue and is taking all steps towards mitigating the sewage entering into the water bodies. Respondent submits that MPCB and CPCB are continuously monitoring the efforts being taken by the Respondent, and the Respondent has also been reporting to the said authorities, as and when called for.

  
DEPONENT

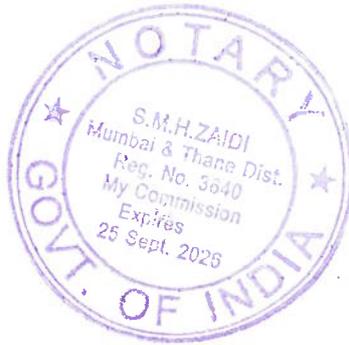
10/11-21



VERIFICATION

Verified at Mumbai on this \_\_\_\_ day of November, 2021,  
that the contents of the foregoing Affidavit are true to my  
knowledge, no part of it is false and nothing material has  
been concealed therefrom.

*[Handwritten Signature]*  
DEPONENT 16/11/21



**BEFORE ME**

*[Handwritten Signature]*  
S. M. H. ZAIDI  
NOTARY  
Government of India  
Mumbai & Thane Dist.

16 NOV 2021



NOTED & REGISTERED  
Sr. No... 912 Page No... 66  
Book No... 8 Date... 16 NOV 2021

16 NOV 2021



CA 5036/2019

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ITEM NO.2

Court 4 (Video Conferencing)

SECTION XVII

S U P R E M E C O U R T O F I N D I A  
R E C O R D O F P R O C E E D I N G SCivil Appeal No.5036/2019

MUNICIPAL CORPORATION OF GREATER MUMBAI

Appellant(s)

VERSUS

NITIN SHANKAR DESHPANDE &amp; ORS.

Respondent(s)

(With appln.(s) for IA No. 79977/2019 - STAY APPLICATION)

WITH Diary No.11356/2020 (XVII)

(With appln.(s) for IA No.92207/2020-EXEMPTION FROM FILING C/C OF THE IMPUGNED JUDGMENT and IA No.92206/2020-STAY APPLICATION and IA No.92205/2020-CONDONATION OF DELAY IN FILING APPEAL)

C.A. Nos.923-924/2021 (XVII)

(With appln.(s) for IA FOR STAY APPLICATION ON IA 93118/2021)

Date : 13-08-2021 These matters were called on for hearing today.

CORAM :

HON'BLE DR. JUSTICE D.Y. CHANDRACHUD  
HON'BLE MR. JUSTICE M.R. SHAH

For Appellant(s)

Ms. Aishwarya Bhati, ASG  
Mr. D.L. Chidananda, Adv.  
Mr. Divyansh Rathi, Adv.  
Ms. Archana Pathak Dave, Adv.  
Ms. Suhasini Sen, Adv.  
Mr. S.K. Singhania, Adv.  
Mr. Gurmeet Singh Makker, AOR

Signature Not Verified

Digitally signed by  
Chetan Kumar  
Date: 2024.08.13  
19:36:24 IST  
Reason:

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CA 5036/2019

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Mr. Mukul Rohatgi, Sr. Adv.  
 Mr. Dhruv Mehta, Sr. Adv.  
 Mr. Ashish Wad, Adv.  
 Mrs. Tamali Wad, Adv.  
 Ms. Aruna Savla, Adv.  
 Mr. Harshad Pimple, Adv.  
 Mr. Sidharth Mahajan, Adv.  
 Ms. Sukriti Jaggi, Adv.  
 Mr. Ajeyo Sharma, Adv.  
 Mr. Keith Verghese, Adv.  
 M/s. J S Wad And Co.

For Respondent(s)

Mr. K.M. Nataraj, ASG  
 Mr. S.K. Singhania, Adv.  
 Ms. Suhasini Sen, Adv.  
 Mr. Sharath Nambiar, Adv.  
 Ms. Preeti Rani, Adv.  
 Mr. Amrish Kumar, Adv.  
 Mr. Arvind Kumar Sharma, AOR

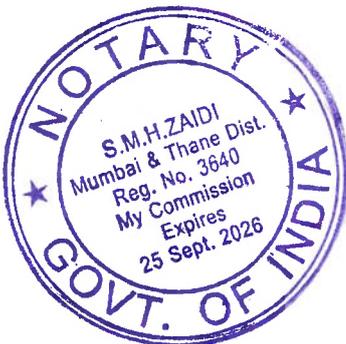
Mr. Krishnan Venugopal, Sr. Adv.  
 Ms. Ekta Sikri, Adv.  
 Ms. Ranjeeta Rohatgi, AOR  
 Mr. Vikalp Mudgal, Adv.

Mr. Krishnan Venugopal, Sr. Adv.  
 Ms. Ekta Sikri, Adv.  
 Ms. Ranjeeta Rohtagi, Adv.  
 Mr. Vikalp Mudgal, AOR

Ms. Anitha Shenoy, Sr. Adv.  
 Ms. Srishti Agnihotri, AOR  
 Mr. Zaman Ali, Adv.  
 Ms. Aarti Krupa Kumar, Adv.  
 Ms. Sanjana Grace Thomas, ADV

Mr. Gurmeet Singh Makker, AOR

Mr. Mukesh Verma, Adv.  
 Mr. Shashank Singh, AOR



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**Mr. Tahir Ashraf Siddiqui, AOR**

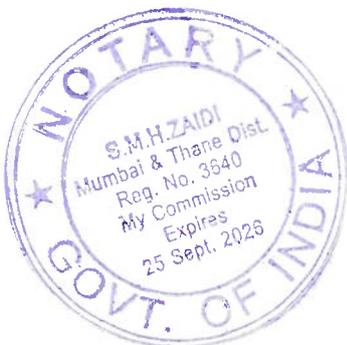
**UPON hearing the counsel the Court made the following  
O R D E R**

IA No 93118 of 2021 in Civil Appeal Nos 923-924 of 2021.

- 1 An order has been passed by the National Green Tribunal on 16 July 2021 directing the Municipal Commissioner of the Municipal Corporation of Greater Mumbai to appear in person along with his response and a compliance status in respect of each of the directions which have been issued by the Tribunal in its order dated 14 October 2020. The Municipal Commissioner has been directed to explain why coercive measures under Section 25 of the National Green Tribunal Act 2010 read with Section 51 of the CPC may not be taken to ensure compliance of the order of the Tribunal.
- 2 The NGT was apprised of the fact that notice has been issued by this court on 28 June 2021 in Civil Appeal Nos 923-924 of 2021. However, the Tribunal has taken the view that since there was no stay of its decision, the execution proceedings filed by the first respondent may proceed and hence, the above order has been passed.
- 3 Mr Mukul Rohatgi, learned senior counsel appearing on behalf of the Municipal Corporation submits that though the execution application was filed on 22 June 2021 before this Court issued notice, this court was not apprised of the fact by the first respondent, and on 16 July 2021, an order was passed by the Tribunal without notice to the Municipal Corporation. That apart, it has been submitted that even in the counter affidavit which was filed on 19 July 2021 in these proceedings, there has been no reference to the execution proceedings.



- 4 The issue which has been raised in the proceedings before the NGT is indeed serious since it relates to the discharge of untreated waste into the sea, creek and river bodies. The Municipal Corporation must, in our view, make every effort to comply with the directions of the NGT by setting up the required facilities and upgrading existing facilities. Humanity can ill afford the luxury of using water bodies as dumping grounds of municipal waste. It is absolutely no valid answer to say that the directions which have been issued by the NGT would pose budgetary implications for the Municipal Corporation, particularly when the report of the expert committee indicates quite to the contrary. The discharge of untreated sewage and waste from Mumbai is a matter of serious concern and needs to be attended to with the highest priority. The protection of the environment is a matter of universal concern. The Municipal Corporation and the Municipal Commissioner must respond to the notice which has been issued by the NGT. At the same time, recourse to coercive steps against the Municipal Commissioner is not appropriate, particularly when the official is engaged in a herculean effort to respond to the Covid 19 pandemic for protecting the residents of the metropolis. Reasonable time should be given to MCGM and the Municipal Commissioner to apprise the Tribunal of the steps taken.
- 5 We accordingly direct that within a period of two weeks from today, the Municipal Commissioner shall file an affidavit before the NGT categorically indicating the steps which have been taken to comply with the directions of the NGT, particularly in regard to ensuring compliance with the requisite standards for the discharge of effluents including municipal waste and sewage. The affidavit shall set down a concrete plan of action for the future. NGT may consider the affidavit and the steps which have been taken to ensure compliance.
- 6 Pending further orders, however, no coercive steps shall be taken against the Municipal Commissioner or the Municipal Corporation in pursuance of



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paragraph 7 of the order dated 16 July 2021. In the event that the Municipal Corporation does not make a good faith effort to place before the NGT a full schedule of steps taken and those which are proposed to be taken, we may be constrained to vacate the stay on the direction in paragraph 7 on the next date of listing.

- 7 The above directions should not be interpreted as a carte blanche to the Municipal Corporation to continue to violate the prescribed pollution control norms in the interregnum and all steps shall be taken in the meantime to ensure compliance.

**(CHETAN KUMAR)**  
A.R. - cum-P.S.

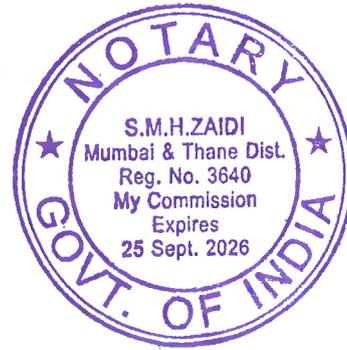
**(SAROJ KUMARI GAUR)**  
COURT MASTER



## ANNEXURE II

## LIST OF WORKS COMPLETED UNDER MSDP DEPT.

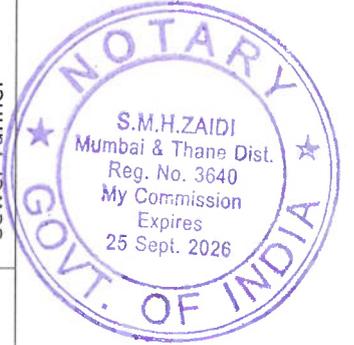
SR.NO	NAME OF WORK	CAPACITY	DATE OF COMPLETION	REMARKS
1	Colaba WWTF	37 MLD	04.04.2020	Constructed as per new effluent discharge standards BOD<10mg/l, TSS<10mg/l.
2	Vallabh Nagar Pumping Station	232 MLD	31.03.2020	Old pumping station of capacity 135 MLD is replaced with new higher capacity pumping.
3	Chinchpokali Pumping Station	24 MLD	13.07.2020	Old pumping station is replaced with new higher capacity pumping
4	Perubaug Pumping Station	4.6 MLD	15.03.2021	Stopping of sewage ingress to Powai lake



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**LIST OF WORKS IN PROGRESS UNDER MSDP DEPT.**

SR.NO	NAME OF WORK	CAPACITY	EXPECTED DATE OF COMPLETION	REMARKS
1	Mithi River Package -I	8 MLD STP, 24 MLD IPS & EPS each	31.03.2022	-STP is being constructed new effluent discharge standards BOD<10mg/l, TSS<20mg/l. - Physical progress of work -75%
2	Versova Influent Pumping Station	540 MLD	30.06.2022	Old pumping of capacity 295 MLD is being replaced with new pumping station. - Physical progress of work - 38%
3	Versova Sewer Tunnel	Length-3.1 Km Diameter-2000 mm ID	30.11.2022	- Physical progress of work - 45%
4	Kadeshwari Pumping Station	5 MLD	21.11.2021	Sewage from Kadeshwari, Pinglewadi area, Bandra (w) will be collected. - Physical progress of work - 95%
5	VJB Udyan STP	500 KLD	28.07.2024(with O & M )	STP work is completed , new effluent discharge standards BOD<10mg/l, TSS<20mg/l. Work is completed, electric supply is awaited. - Physical progress of work - 95%
6	MaladInfluent Pumping Station	1580 MLD	30.09.2025	-Plant is ready for trial and commission. -Old pumping station is being replaced with new pumping station.
7	S V Road Tunnel	Length-1.9 Km Diameter-2600 mm ID	31.12.2022	- Physical progress of work - 17%
8.	MithiRiverPackage -IV Sewer Tunnel	Length-6.7 Km Diameter-2600 mm ID	30.09.2025	- Physical progress of work - 65%
				-Work Order is issued on 1.10.2021.



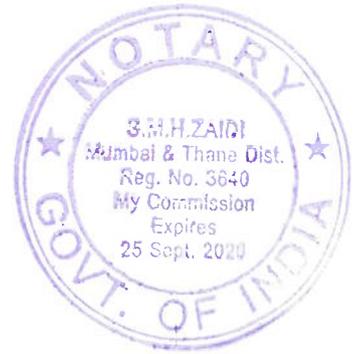
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LIST OF WORKS FOR WHICH TENDERS ARE INVITED.		
SR.NO	NAME OF WORK	CAPACITY
1	Worli	500 MLD
2	Bandra	360 MLD
3	Dharavi	418 MLD
4	Versova	180 MLD
5	Ghatkopar	337 MLD
6	Bhandup	215 MLD
7	Malad	454 MLD

REMARKS  
All WWTFs will be constructed as per effluent discharge standards given by Hon'ble NGT vide letter order dated 30.04.2019(BOD<10mg/l, TSS<20mg/l & Faecal coliform< 100MPN/100ml). Tenders are invited and financial packets are opened and same are under scrutiny.

No response was received hence tenders will be re-invited.

LIST OF WORKS FOR WHICH TENDERS WILL BE INVITED SHORTLY.			
SR.NO	NAME OF WORK	CAPACITY/SIZE	REMARKS
1	Ghatkopar Influent Pumping Station	699 MLD	Draft tender is submitted for approval.
2	PST -I Sewer Tunnel	Length-5.8 Km Diameter-3200 mm ID	Tender to be re-invited.
3	PST -II Sewer Tunnel	Length-4.8 Km Diameter-2600 mm ID	Tender to be re-invited.
4	Harway Road Pumping Station	10MLD	Draft tender submitted for approval.

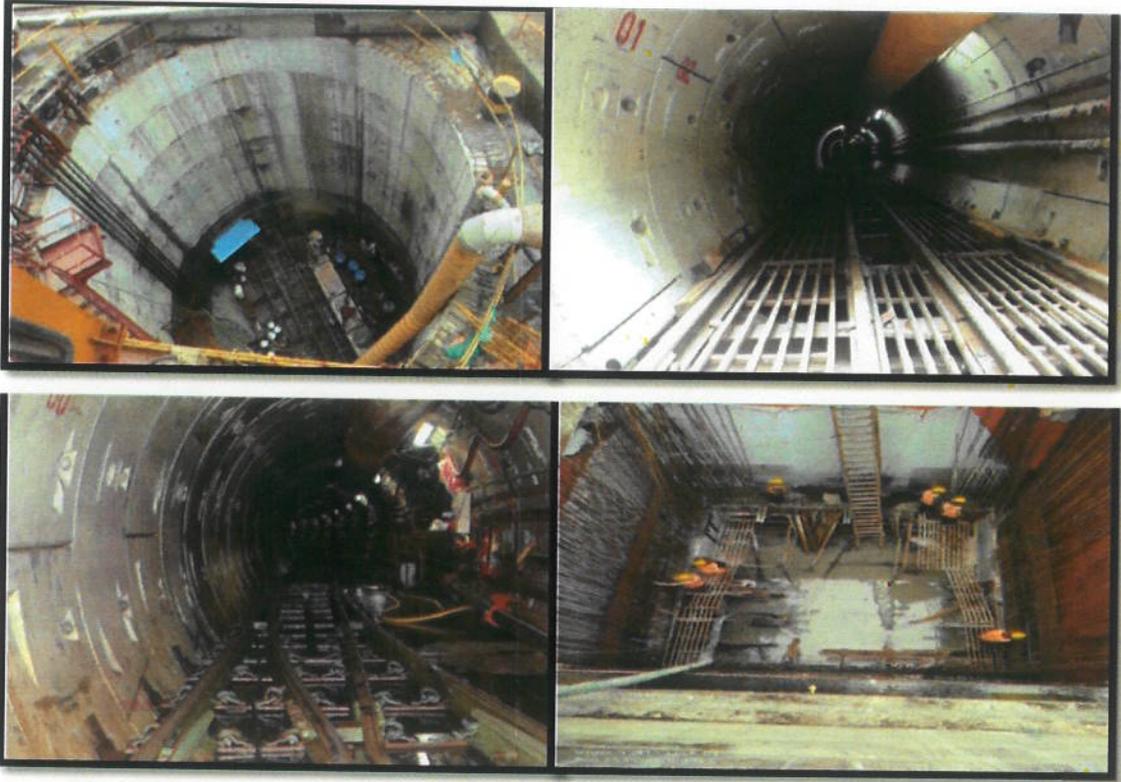


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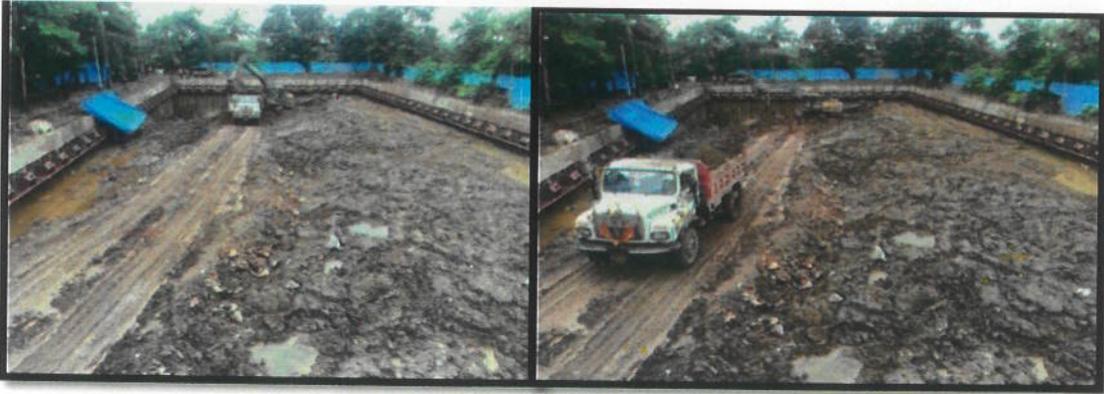
DL TO MS SUBMITTED FOR APPROVAL			
SR.NO	NAME OF WORK	CAPACITY	REMARKS
1.	Upgradation of Bhandup Influent Pumping Station to make it Compatible with upcoming Bhandup WwTF	461 MLD	DL to MS submitted for approval.



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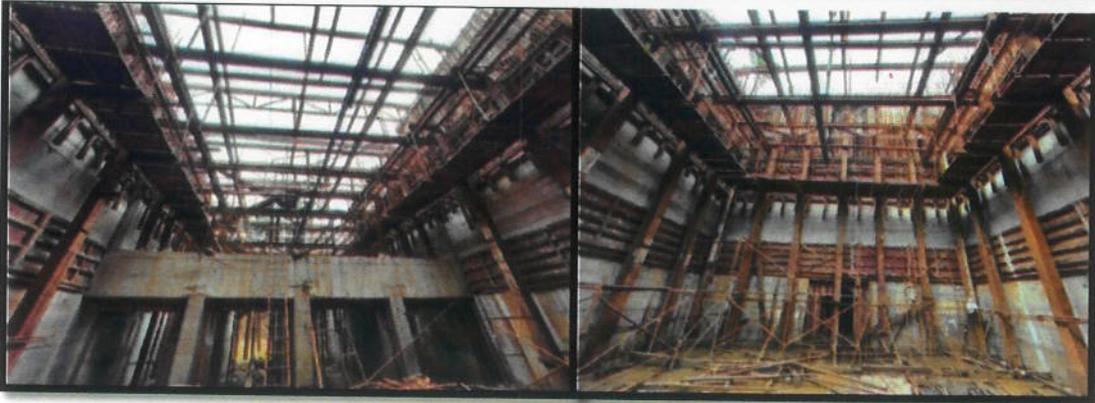
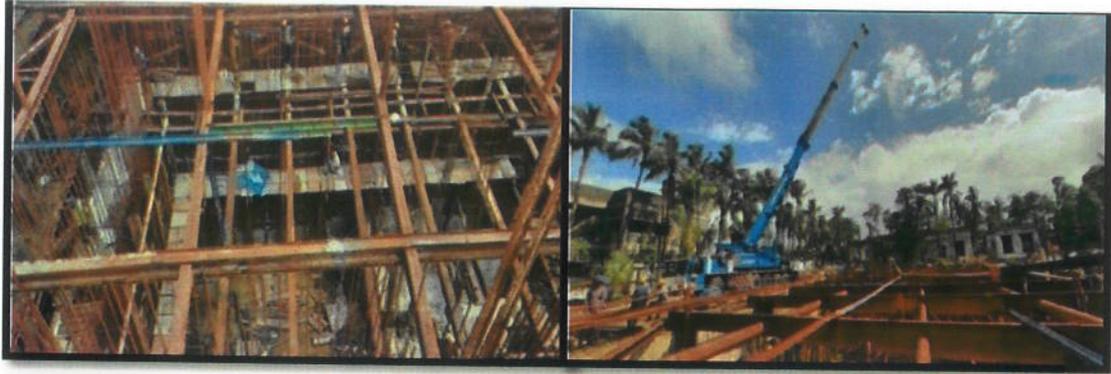
S V ROAD TUNNEL



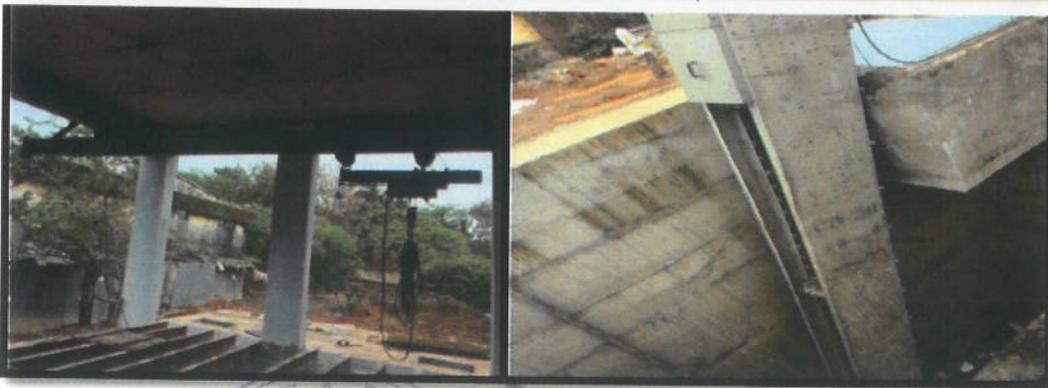
MALAD IPS



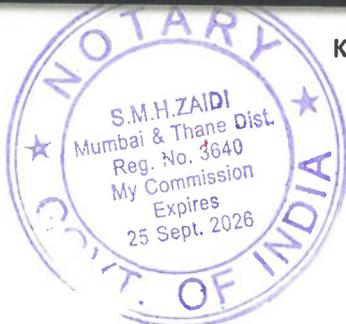
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VERSOVA IPS



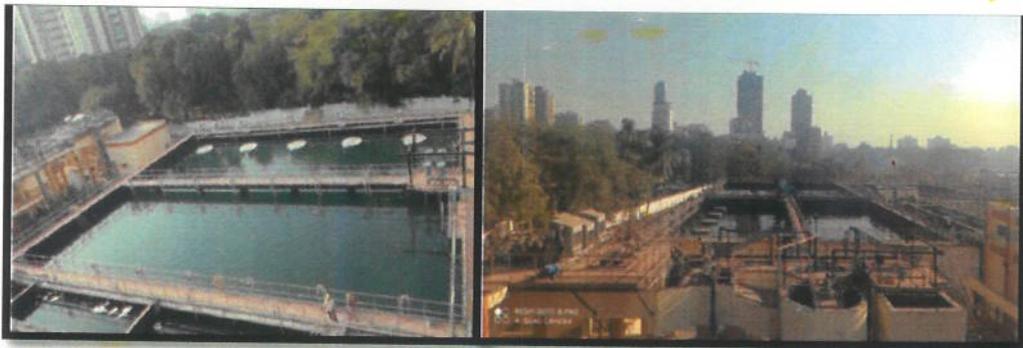
KADESHWARI PUMPING



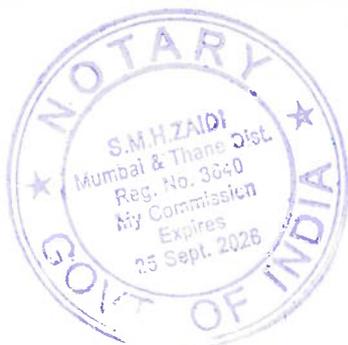
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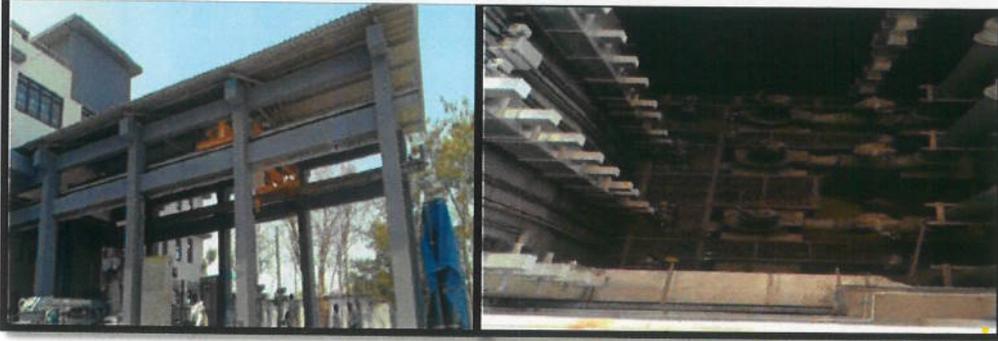
VJB UDYAN BYCULLA STP



COLABA WWTF



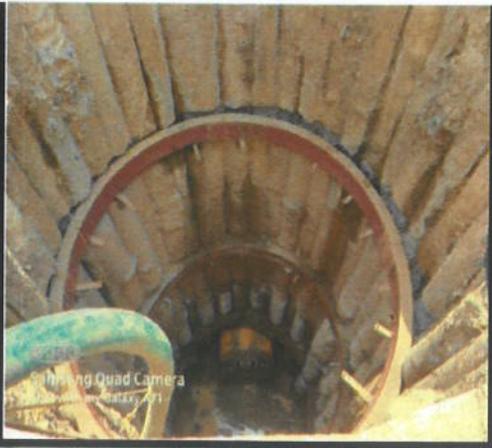
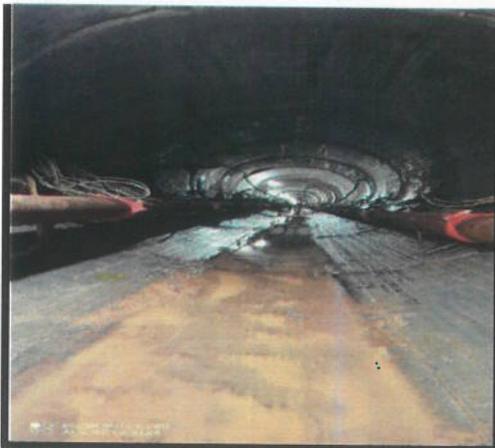
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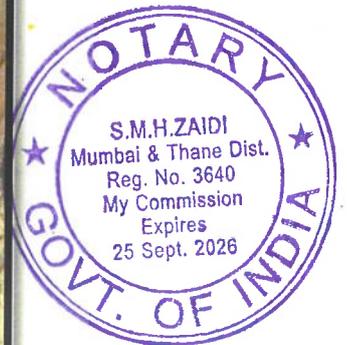
VALLABHNAGAR PUMPING STATION



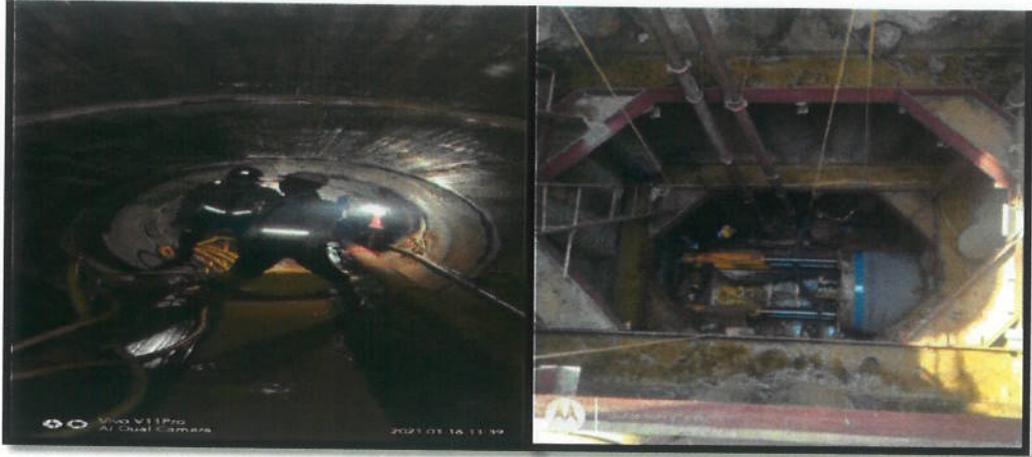
PERUBAUG PUMPING STATION



VERSOVA SEWER TUNNEL



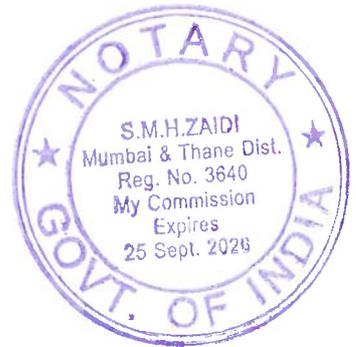
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VERSOVA SEWER TUNNEL



MITHI RIVER PACKAGE I – 8 MLD STP



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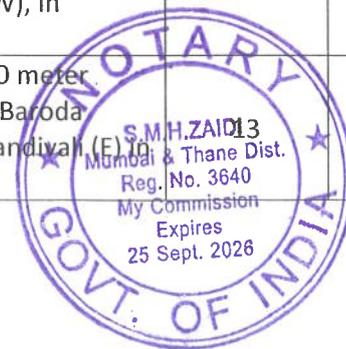


CHINCHPOKALI PUMPING STATION



**ANNEXURE III****List of Completed Works from 2016 to August 2021** (S.P. Dept)

Sr.No	Description of the Work	Period (M)	length (KM)
1	P/L 230mm dia S.W. pipe sewer at Bharat Nagar Municipal School, Bandra(E) in H/East ward.	6	0.142
2	P/L 250 mm & 300 mm dia RCNP3 class pipe sewer from Shivsai Mandir to Pralhad Shinde Chowk to New English School at Vijay Nagar, Bandra(E) in H/East ward.	12	0.345
3	Part A) P/L 230 mm dia S.W. class pipe sewer along Hanuman Mandir Road from Municipal Hindi School to St. Lowerence School in Marol Gaothan, Village Marol, Andheri (E) in K/East Ward. Part B) P/L 230 mm dia S.W. class sewer on Gaothan Road from Kanchan Building to Marol Maroshi Road in Marol Gaothan, Village Marol, Andheri (E) in K/East Ward.	5	0.15
4	P/L 250 mm dia RCNP3 class pipe sewer near Himalay Steel & Jewellers shop to Hill Top society at Saibaba nagar, Kadam wadi, Village Marol, Andheri(E), in K/East Ward.	5	0.09
5	P/L 250 mm dia RCNP3 class pipe sewer line along proposed 9.15 mtr wide DP Road from Vimla Hospital up to Preeti CHS at Versova, Andheri (West) in K/West ward.	6	0.211
6	7) a) P/L 280 mm dia (OD) HDPE pipe sewer line (PN 6 Class-PE 80 grade: IS 14333) to correct grade and alignment by HDD Method on 13.40 mtrs wide proposed DP road from Marol Maroshi road up to Crescent residency, Village Marol, Andheri (East) in K/East Ward	12	0.2
7	P/L 300 mm dia RCNP3 class pipe sewer line along Mangalawadi Road from Juhu Tara Road upto Mangalawadi at Juhu, in K/West ward.	6	0.285
8	P/L 300 mm dia. RCNP3 class pipe sewerline On North Side of Mohan Gokhale Road (Cross Road) Goregoan, P/South Ward	18	0.616
9	P/L 600 mm dia. and 350 mm dia. Sewer in Teen Dongri, Yashvant Nagar area, Goregoan(W), P/South Ward	16	0.27
10	P/L 250 mm dia RCNP3 class pipe sewer in Chikkuwadi & Bhandarwada at Village Malavani, Malad (W) at P/North Ward.	5	0.18
11	P/L 230 mm dia. S.W. Pipe sewer along Govind Nagar Main Road, Prem Nagar at Borivali (W) in R/Central by Open Cut Method	9	0.171
12	Shifting and diversion of existing 500mm dia & 600 mm dia sewer line passing through private plot by providing and laying 500 mm dia and 600 mm dia RCNP3 class pipe sewer along D.P. Road at Sai Baba Nagar, Manthan Pada, at Borivali (W), in R/Central Ward	15	0.15
13	P/L 300 mm dia RCNP3 class pipe sewer line on 13.40 meter wide D.P.Road from 18.30 mtr D.P.Road i.e. Bank of Baroda Building to Hill View Park Society in Thakur Village Kandivali (E) in R/South Ward.		0.51



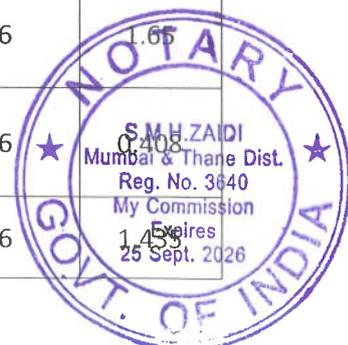
14	P/L 300 mm dia RCNP3 class pipe sewer line along Ring Road at Bhandup (E) in S Ward	8	0.5
15	P/L sewerline for missing link on Gavanpada Road, Mulund (E) in T ward	7	0.072
16	P/L 250 mm dia RCNP3 class pipe sewer line along Maulana Asad Madani marg, Jogeshwari(West) in K/West ward.	3	0.096
17	5) P/L 400 mm dia (OD) HDPE pipe line (PN-6 Class- PE 80 grade: IS 14333) to correct grade and alignment by HDD Method on Dudhsagar road upto Mohan Gokhale road, Goregaon (E) in P/South ward. (3/T21)	12	0.15
18	P/L 300mm dia RCNP3 class pipe sewer line along Maharashtra Nagar Rd upto Quarry Rd at Bhandup (West), S ward	6	0.1
19	Providing & laying 250 mm dia RCNP3 class pipe sewer line at Tarun Bharat road from Municipal School to Saibaba Nagar, Chakala, Andheri (East) in K/East ward.	12	0.029
20	Providing and laying 230 mm dia. SW pipe sewer from N.S.S. road to near Gousia Masjid, Salma Compound and nearby area, Ghatkopar (W), in L ward.	4	0.166
21	7) P/L 355 mm dia (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment on Mahatma Jotiba Phule road from Cambridge School upto PSC Block in Thakur Complex, Kandivali (East) in R/South Ward. (4/T22)	18	0.372
22	6) P/L 280 mm dia. (OD) HDPE pipe line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment on D.P Road from Gokul Garden CHS to Vrindavan CHS, and from Gokul Accord CHS to Resort View CHS in Thakur Complex, Kandivali (E) in R/South Ward.	18	0.29
23	5) P/L 280 mm dia. (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment on D.P Road from Mahatma Phule Road junction upto Thakur Vidya Mandir School in Thakur Complex, Kandivali (E) in R/South Ward. (4/T23)	18	0.133
24	Providing and laying sewer lines anywhere in Eastern Suburb. - Providing and laying 300mm dia RC NP3 Class pipe sewer line along 9.15mtr wide D.P.Road in front of Gandhi Bal Mandir School to Jay Ambe Mitra Mandal, Ward No. 165, Kurla (West) in L-Ward.	6	0.18
25	Providing & laying of 500mm (OD) HDPE pipe line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment on 13.40 mtr wide D.P.Road Dheeraj Enclave buildings from 27.45 Mtr. wide D.P.Road and Providing & laying 280 mm (OD) HDPE pipe line (PN-6 Class- PE 80 grade : IS 14333) to correct grade 12.20 mtr wide Dheeraj Enclave Road from junction of 18.30 Mtr. wide D.P.Road upto 36.60 Mtr wide D.P.Road at Borivali (East) in R/Central Ward.	18	0.51
26	P/L 560 mm dia (OD) HDPE pipe sewer line (PN-6 class-PE 80 grade: IS 14333) to correct grade and alignment by HDD Method at Khernagar-Kherwadi area, Bandra (E), H/East ward. (1/5 of T 21)	12	0.312
27	1) P/L 355mm (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade: IS 14333) to correct grade and alignment by HDD Method	12	0.3



	at Shatabdi Hospital road, at Govandi (W). In M/East Ward (T2/21)		
28	Providing and laying 300mm Dia RCNP3 class pipe sewer - along 9.15m wide DP road in front of Shivam Ind.Estate - Orchid Residential Complex Near Station road, Deonar, - Govandi (E), Mumbai in M/East Ward.	6	0.29
29	Providing and laying 300mm dia RC NP3 Class pipe sewer line from Kaju tekadi Ganesh Mandir to Jagruti Nagar Metro station at Ghatkopar(W) in 'N' Ward	11	0.21
30	1) P/L of 400mm (OD) HDPE pipe line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment on 13.40 mtr wide D.P.Road from I.B.P.S. Bldg. upto Benzer Society, Near 90 Feet Road , Thakur Complex at Borivali (East) in R/Central Ward . (5/T23)	18	0.125
31	8) Providing and laying 400mm dia RC NP3 Class pipe sewer for missing link , Jaideep nagar, Nahur(E) in S ward	8	0.29
32	7) Providing and laying 300mm dia RC NP3 Class pipe sewer at Samarth nagar road, Bhandup (W) in S ward	12	0.255
33	8) P/L 300 <350 mm dia RC NP3 Class pipe sewer Kokan nagar road & Jamil nagar road Bhandup (W) in 'S' ward	17	0.85
34	P/L 300 mm dia RCNP3 class pipe sewerline from Vaishali Nagar Road, upto Narendra Complex Road, R/North Ward	9	0.18
35	2)Providing & laying 350 mm dia RCNP3 class pipe sewer line along 13.40 mtr wide D.P.Road from 'Surabhi' Hotel upto I.B.P.S. Bldg. at Borivali (East) in R/Central Ward.	14	0.14
36	P/L 600 mm dia RC(NP3 Class) pipe sewer along Mohan Gokhale Road from existing manhole near Electric Pole no. TCJ/093/004 upto the existing manhole at the junction of Mohan Gokhale Road with Arya Bhaskar Road, Goregaon, P/South ward.	20	0.685
37	Providing and Laying 300<500 mm dia RCNP3 class pipe sewer line along L.U. Gadkari Marg and nearby area in M/East Ward.	6	0.27
38	P/L 230mm dia SW class pipe sewer line from Varsha Nagar Cemetery to existing manhole on 27.45M wide D.P. road near Kailash Industrial Estate, Ghatkopar(West) in N ward	18	0.56
39	Providing and laying 230 mm dia S.W class pipe sewer line at various locations in slum areas in M/west ward.	12	1.18
40	10)Providing and laying 230mm 230mm dia SW pipe sewer line on Sainath Wadi , Mulund Colony, Mulund(W) inT ward	10	0.06
41	1) P/L 300 mm dia RCNP3 class pipe sewer along Datta Mandir road upto pipe line road, Santacruz (E) in H/East Ward	13	0.269
42	1) Providing and laying 300 mm dia. RC NP3 Class pipe sewer near Manav Kalyan Bldg., Bangur Nagar, Goregaon(W) in P/South ward.	20	0.132
43	6) P/L 300 mm dia RCNP3 class pipe sewer on Narayan Chavhan cross road no.1 & 3, D.N. Nagar, MHADA layour, Andheri (W) in K/West ward	12	0.29
44	4) P/L 230mm dia. SW class pipe sewer line at Gajanan Maharaj road, at Ghatkopar(W) in N ward	10	0.14



45	3) P/L 230mm dia. SW class pipe sewer line at R. N Gandhi marg, at Vidyavihar(E) in N ward	10	0.21
46	2) P/L 300mm dia. RC NP3class pipe sewer line at Dog Kennel road, at Govandi (E).in M/East Ward	10	0.4
47	i) Providing and laying 230mm dia S.W. class pipe Sewer line along Jambhalipada road, Asalpha, Kurla(W) in 'L' ward. li) Providing and laying 230mm dia S.W. class pipe Sewer line besides Homeguard Ground, Kurla(W) in 'L' ward.	3	0.285
48	Providing and Laying 800 mm dia RCNP 3 class pipe sewer from Collector colony to Hemu Kalani Marg opp R.C. Marg Chembur in M/West ward (Phase-I)	26	1.27
49	P/L 300 mm dia RCNP 3 class pipe sewer at Lumbini Baug, Govandi.	5	0.104
50	P/L 250 mm dia RCNP3 class pipe sewer line at Khardeo Nagar, Ghatala Village in M/West Ward	5	0.236
51	P/L 300/450mm dia RCNP3 class pipe sewer line in Cheeta Camp in M/East ward	10	0.92
52	A) P/L 350 mm dia RCNP3 class pipe sewer line along Shitladevi Mandir Road in D.N. Nagar MHADA Layout, Andheri (W) in K/West Ward B) P/L 300 mm dia RCNP3 class pipe sewer line along the road from Ganesh chowk upto Matruchhaya building at D.N. Nagar, Andheri (W) in K/West Ward.	14	0.41
53	P/L 230 mm dia S.W. pipe sewer from building No.6 to Indira Krupa Society at Vijay Nagar, Bandra(E) in H/East ward.	4	0.06
54	P/L 300 mm & 400 mm dia RCNP3 class pipe sewer in Yashwant Nagar, Santacruz(E), H/East ward.	21	0.548
55	1) P/L RC pipe (NP-4 class and above) sewer line of 600 mm dia along Station Road, Bandra, Slaughter House Road upto Badi Masjid, H/West Ward. (Partly by trenchless technology). (Micro T-4)	36	0.085
56	Part A) Providing and laying R.C. pipe sewer lines from AnikWadala to CST Road Junction by micro tunneling and pipe jacking method including ground improvement and allied work.	27	4.95
57	P/L RC pipe (NP-4 class and above) sewer line of 1000 mm dia by Micro tunnelling and pipe jacking method from Afghan Church pumping station to Colaba WwTF, A Ward	36	0.6
58	Providing and Laying RC pipe (NP-4 class and above) sewer line of 1000 mm dia by Micro tunneling and pipe jacking method along Sahar road from Airport residential complex gate no. 1 to Sahar village K/E ward	36	0.97
59	Providing and Laying RC pipe (NP-4 class and above) sewer line of 1200 mm dia by Micro tunneling and pipe jacking method for Upsizing of sewrline along Senapati Bapat marg, G/North Ward.	36	1.65
60	Providing and Laying RC pipe (NP-4 class and above) sewer line of 1000 mm dia by Micro tunneling and pipe jacking method for Upsizing sewrline along Rafi Ahmad Kiidwai Marg, F/N Ward.	36	0.408
61	Providing and Laying RC pipe (NP-4 class and above) sewer line of 1200 mm dia. pilot sewer line by microtunneling and pipe	36	1.433



	jacking method & HDPE pipes for cross connections by HDD method along Barister Nath Pai Road on east side of carriage way parallel to existing sewer line from Veer Tanaji Malusare Path Junction to Sant Savata pumping Station in E Ward.		
62	Providing and Laying RC pipe (NP-4 class and above) sewer line of 1200 mm dia by Micro tunneling and pipe jacking method along Ranchhod Das Thakkar from RangnathKeskar Road crossing Railway line upto W. E. H. Dahisar (E), R/North ward.	36	0.69
63	P/L 450 mm dia overflow pine sewer line from Chach Neharu Garden to Junction of R.M Bhattad Marg along Mahantanpada Road, Sai Baba Nagar Borivali (West) partly by HDD and partly by open cut method at R Center Ward	18	0.313
	Total		28.00



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## List of Works in Progress, proposed to be completed by October 2024

Sr. No	Description of the Work	Period (M)	Length (KM)	Physical progress in %	Actual date of starting	Date of Completion
1	3) Providing and laying 450 mm dia RCNP 3 sewer line damaged by MMRDA / Metro from pier no. 139 to pier no. 146 along west side of service road of WEH , Jogeshwari (E) in K/E ward.	17	0.166	50%	15.02.2020	15.03.2023
2	4) P/L of 400 mm dia RCNP3 class Pipe sewer line along Mahalkari Road and 350 mm dia RCNP3 class Pipe sewer line along Shivaji Nagar road in Kurar Village, Malad (E) in P/North Ward	14	0.700	13%	01.04.2021	28.02.2023
3	4) P/L 355 mm dia (OD) & 280 mm dia (OD)HDPE pipe sewer (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment along Ali Talao Road, Kharodi Village, Malad (W) in P/North Ward. (1/T22)	18	0.300	70%	04.02.2020	04.04.2023
4	2) P/L 355mm dia (OD), 450mm dia (OD) HDPE pipe sewer (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment along East side of Western Express Highway (Service Road) connecting to Daftary Road, Kurar Village, Malad (E) in P/North Ward.	18	0.540	20%	07.01.2020	07.03.2023
5	3) P/L 355 mm dia (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment on Municipal Road from Santosh Nagar Slum to Mangubhai Dattani Road, Kandivali (West) in R/South Ward. (6/T 22)	18	0.120	40%	01.11.2019	31.12.2022



6	P/L 560 mm dia. (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment from South side of Link road - Below Link road Flyover - Road abutting to Dahisar River - Pramila nagar Road - upto new cross Link Road & Providing & laying 355 mm dia. (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade : IS 14333) from junction of new cross Link Road & Pramila Nagar Road upto Best Bus Depot by HDD Method at Dahisar (W) in R/North ward.(Modified Proposal of Zen Garden with reduction in cost.)	18	0.800	41%	01.11.2019	31.12.2022
7	P/L 400mm (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment along Sing Industrial Road, Kandivali (E) in R/South Ward. (2T-23)	18	0.430	55%	18.10.2020	18.12.2022
8	2) P/L of 400mm (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment on 13.40 mtr. Wide D.P road from Bhoomi Hills Society to ESIS Hospital and Faried Estate Gate, Thakur Village, Kandivali (E) in R/South Ward.	18	0.350	40%	01.11.2019	31.12.2022
9	2) P/L 355 mm dia (OD) HDPE pipe sewer line (PN 6 Class-PE 80 grade: IS 14333) to correct grade and alignment by HDD Method along proposed 18.30 mtrs wide DP road, from SBI to Kaatyani Residency at village Mulgaon, Andheri (East) in K/East Ward.	12	0.360	75%	01.11.2019	31.12.2021
10	P/L 355 mm dia (OD) HDPE pipe sewer lines (PN6 Class-PE 80 grade: IS 14333) to correct grade and alignment by HDD Method in Adarsh Nagar MHADA Layout at Jogeshwari (W) in K/west ward. ( 2/5 of T 21)	12	0.490	50%	03.03.2020	03.01.2022
11	Providing and laying 300mm Dia RCNP3 class pipe sewer line along D.P. road from Powai Police Station connecting to existing manhole at Chandivali farm Road, Kurla (W) in L ward	14	0.600	57%	20.02.2020	14.01.2022
12	P/L 300 mm / 400 mm dia sewer line on Guru Govind Singh Marg & nearby area in L ward.	13	1.090	37%	18.02.2020	22.01.2022



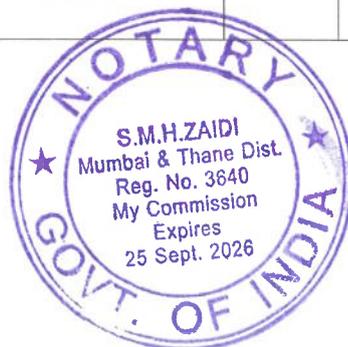
13	P/L 300 & 450 mm dia RCNP3 class pipe sewer line along Khindipada Road at Bhandup (W) in S Ward	24	0.480	35%	14.02.2020	23.01.2023
14	P/L 300mm, 350mm & 400mm dia RCNP3 class pipe sewer along Kadeshwari road, Pinglewadi Road, Bandra(West) in H/West ward.	18	0.525	52%	14.02.2020	31.04.2022
15	9) P/L 300 <350 mm dia RC NP3 Class pipe sewer Pratap nagar road & Bhandup (W) in 'S' ward	22	0.905	95%	01.11.19	31.12.2021
16	P/L 300/400/600 mm dia RCNP3 class pipe sewer line along Sant Kakkaiya Road upto R.C. Marg, Chembur in M/East Ward	27	0.600	84%	01.11.19	07.03.2023
17	6) Providing and laying 300mm<350mm dia RC NP3 Class pipe sewer at Darga road, Bhandup(W) in S ward	10	1.400	40%	01.11.19	14.10.2022
18	P/L 400mm & 300 mm dia RCNP3 class pipe sewer along proposed DP road at Manjarekar wadi, Shindhiya nagar Society to Regency Hotel, Andheri(E) in K/East ward.	20	0.480	81%	14.11.2019	14.01.2022
19	Providing and laying sewer lines anywhere in Eastern Suburb. Providing and laying pipe sewerage network for Bainganwadi, Shivaji Nagar Area and Mandala, Mankhurd, in M-East ward. B) P/L 600mm dia RC NP3 Class pipe sewer line along 30 feet Mandala Road, near Ghatkopar Mankhurd Link Road, Mankhurd (West) in M/East Ward.	10	0.500	0%		Work will be started after receiving traffic NOC. 01.04.2022
20	Providing and laying 300mm and 450mm dia RC NP3 Class pipe sewer line on existing internal various roads of R C Barrac at Chembur Camp off R.C. Marg, Chembur in M/West ward (PHASE - I).B21	23	1.150	32%	18.12.2020	19.10.2023
21	Providing and laying 300mm and 600mm dia RC NP3 Class pipe sewer on various roads in Collector colony off R.C. Marg, Chembur in M/West ward (PHASE – II).	14	1.569	13%	23.03.2021	13.11.2022



22	P/L pipe sewer along Ashok Nagar Road, Off Saki Vihar Road including consultancy. MSDP-II/C-I/SP/AS/ES-1 ) -Providing and Laying 350mm dia (RC NP-3 Class) pipe sewer line along Ashok Nagar Road, Off Saki Vihar Road at Ashok Nagar, Kurla (West) in L-Ward	9	0.140	0%	Work will be started after receiving traffic NOC.	07.01.2022
23	Providing and laying sewer lines anywhere in Eastern Suburb. - Providing and laying pipe sewerage network for Bainganwadi, Shivaji Nagar Area and Mandala, Mankhurd, in M-East ward. - C) P/L 600mm dia RC NP3 Class pipe sewer line along Baji Prabhu Deshpand	15	0.510	0%	Work will be started after receiving traffic NOC.	07.12.2022
24	Balance work of providing and laying 600 mm dia, 350 mm dia RCNP 3 class sewer line from lucky Hotel along station Road along Slaughter House Road, upto Badi Masjid, Bandra (W) H/W ward.	5	0.031	70%	31.01.2020	31.12.2021
25	P/L Sewer line on LBS Marg (from Marathon Ave. Road to Sonapur Jn.) & Marathon Ave. road in 'T' ward	22	0.840	0%	Work will be started after receiving traffic NOC.	30.10.2023
26	P/L 400 mm & 300 dia RCNP-3 class pipe sewer from Rani Laxmibai Chowk, J.B.Nagar along Tarun Bharat Raod Akal Society layout road in K/E ward.	26	0.300	0%	Work not started due to court case	04.01.2024
27	Part B) P/L 1000 mm dia sewer line by open cut method along Proposed DP Road, Existing Kachcha Roads near Mankhurd Station Cheeta Camp in M/East ward (Missing link)Part C) Diversion of 1000 mm dia sewer line for MMRDA from plot of Mumbai Metro Car Depot for Mumbai Metro Line- 2B (Between D.N. nagar to Mandale, Mankhurd-as an extension of Line 2A) at open land/ plot CTS no 6/1, village Mandale, to proposed DP road, by open cut Method near Mankhurd Station Cheeta Camp in M/East ward.	14	0.540	0%	Work will be started after receiving traffic NOC.	31.10.2022

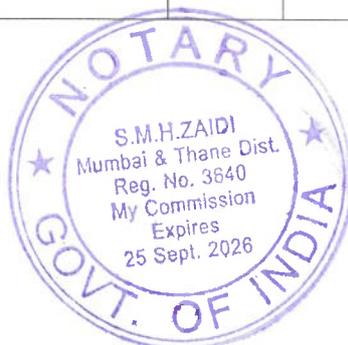


28	Providing and laying sewer lines anywhere in Eastern Suburb. - Providing and laying 300mm, 450mm, 600mm dia pipe sewer line along Samrat Ashok Road and Bunter Bhavan Road and nearby area in Kurla (East) in L-Ward.	18	0.920	0%	Work will be started after receiving traffic NOC.	28.04.2023
29	A) P/L 350 mm dia. RCNP3 class pipe sewer line along Sant Muktai Marg upto Shirsekar Marg, Bandra (E) in H/East ward. B) P/L 300 mm dia. RC NP3 class pipe sewer along R.K.P. road upto Service road, W.E.H Bandra (E) in H/East Ward	8	0.420	70%	04.03.2021	18.01.2022
30	Providing and laying 800 mm dia RCNP3 class Pipe sewer line in place of existing 230 mm dia damaged sewer line by Trenchless method (i.e Manual Pipe Jacking Method ) along Sakharam Balaji Pawar marg from Curry road station to ovoid sewer on N. M. Joshi Low level road in G/S ward.	20	0.155	16%	21.03.2021	31.10.2022
31	iii) Providing and laying of 2*1400 mm dia. GRP(Glass reinforced pipe) Carrier pipe through 2*1700 mm dia. M.S. Pipe sleeve across Harbour line tracks and 1800 mm dia sewer line near the Bridge of E.E. Highway at Chembur (Tembe bridge, Chembur Railway crossing ) in M/West Ward.	20	0.110	32%	22.11.2020	31.10.2022
32	P/L 800 mm, 600mm, 400mm, 350mm dia. Sewer in S.N.Dubey Road, Rawalpada, Sant Mirabai Road, at Dahisar (E) (T-5)	20	0.400	3%	18.04.2021	31.10.2022
33	Providing and Laying 1200 mm dia RC(NP4 class and above) pipe sewer by Micro Tunneling at western Express Highway crossing at Daftary Road at Malad East in P/North Ward	20	0.105	0%	-	31.10.2022
34	Providing and Laying 1200 mm dia RC(NP4 class and above) pipe sewer line by Micro Tunneling along the Kadsiddeshwar Road from Screen Chamber of Charkop Pumping Station upto the junction of RDP 5 (Charkop Market) at Charkop,Kandivali West in R/South Ward	20	0.932	17%	05.10.2020	31.10.2022

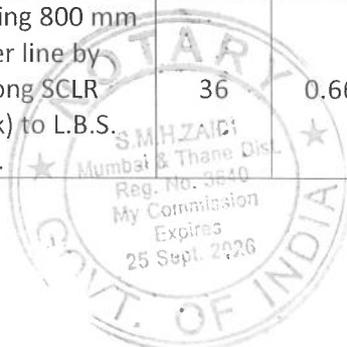




35	Providing and Laying 1000 mm dia.RC pipe (NP4 class and above) Sewer line by Microtunneling Method from Lokhandwala Circle along Gulmohar Road and C D Burffiwala lane at Andheri West in K/West Ward	20	0.800	13%	-	31.10.2022
36	P/L 300mm, 350mm & 400 mm dia RCNP3 class pipe sewer lines along Veera Desai Extension Road from St. Catherine's Home up to Country Club at Andheri (West) in K/West ward.	14	0.720	90%	14.11.2019	31.12.2021
	P/L 300mm dia. RC NP3 class pipe sewer line on road in Bhim Nagar, Ghatkopar (West) in N-Ward.	12	0.26	95%	01.10.2019	30.11.2021
37	P/L 300mm dia RC NP3 class pipe sewer from Dr. Ambedkar Nagar, Saibaba Nagar and Ganesh Murti Nagar along compound wall and within helipad plot upto Capt Prakash Pethe marg, Cuff Parade in 'A' ward.	6	0.335	95%	26.10.2019	30.11.2021
38	10) Providing and laying 300 mm dia. RC NP3 Class pipe sewer from Seven Seas CHS Ltd. To Lohgad CHS along Saibaba Mandir Road to Lohgad CHS, near Shiv Vallabh Road, Dahisar (E), R/North ward.	20	0.17	95%		30.11.2021
39	5) Long Term Work - Package 1 - Stopping of sewage ingress in Powai Lake	13	0.900	92%		
40	Providing and laying 300 mm dia RCNP3 class pipe sewer on cross road between Shitladevi road and Narayan Chavan road, D.N. Nagar MHADA layout, Andheri (West) in K/West ward.	3	0.302	95%	07.12.2016	31.12.2021
41	P/L 300mm,350mm,400mm dia RCNP3 class sewer lines at Haji Karamat Ali road (Kasaiwada) and nearby areas in Kurla (E) L ward.	18	1.195	40%	13.05.16	
42	P/L 300 mm dia RCNP3 pipe sewer line along proposed 36.6 mtr wide DP Road (Inlak Society Road) from Hijaji Chowk up to Express Tower at Versova, Andheri (West) in K/West ward.	3	0.060	0%	Work not started	-



43	Part I (c) P/L RC Pipe (NP4 class & above ) sewer line 1200 mm dia. by microtunneling from Laffarge India company gate along Cemetery plot up to south side coumpound wall of cemetery at Sag baug area in Andheri (East) (by microtunneling) K/East ward.	36	0.130	90%	28.12.2020	31.12.2021
44	Providing and Laying RC pipe (NP-4 class and above) sewer line of 1200 mm dia by Micro tunneling and pipe jacking method along Ranchhod Das Thakkar from RangnathKeskar Road crossing Railway line upto W. E. H. Dahisar (E), R/North ward.	36	0.270	98%	01.11.2018	31.12.2022
45	Replacement of existing 700mm dia defective sewer by laying new 700mm dia sewer on Jiva Mahale Road, Andheri(E) K/East Ward.	36	0.091	9%	27.01.2021	28.02.2023
46	P/L Sewer network for Cheeta Camp and Trombay area (inclusive of Consultancy Services) P/L 1000/ 600/ 400/ 300 mm dia Sewer Line along 27.45 mtr. DP Rd Existing Kachha Rd, Internal Roads of Cheeta Camp and Trombay. Part A) P/L 1000 mm dia RCNP4 class pipe sewer line in Cheeta Camp in M/East ward. (Micro T-4)	36	0.195	89%		28.02.2023
47	Upsizing of existing 450mm dia sewer line to 1100mm dia RCNP3 Class Pipe Sewer along RSC-1A Road from Dr.Babasaheb Ambedkar road upto Gorai Pumping Station, Borivali(W) in R/Central ward.	36	0.746	20%	15.01.2020	28.02.2023
48	P/L 800 mm, 600 mm and 450mm dia sewer line along Pathanwadi road on Proposed D.P. road from the junction of WEH and Pathanwadi, Kurar village Malad (E) in P/North ward.	36	0.720	95%	01.09.2019	30.10.2021
49	2) P/L 600 mm, 1000 mm & 1200 mm dia RCNP4 class pipe sewer line by trenchless method at LBS road Premier road, Kirol road and nearby area in Kurla (W) in L ward (3 packages)	36	2.035	62%	15.10.2019	28.02.2023
50	Part 2C) Providing and Laying 800 mm dia RC NP 4 class pipe sewer line by Microtunneling method along SCLR from Mithi River (East Bank) to L.B.S. Road in Kurla (W) "L" ward.	36	0.660	0%	-	28.02.2023



51	Part 2B) Providing and Laying 1000 mm dia RCNP4 Class Pipe sewer line on SCLR from LBS Marg to Halav Pool in L Ward.	36	1.120	62%	05.11.2018	28.02.2023
52	Providing & laying sewer line & screen chamber - ii) Providing and Laying RC pipe (NP-4 class and above) sewer line of 1800 mm dia by Micro tunneling and pipe jacking method for connecting 1800 & 1200 mm dia. sewer lines to new screen chamber, N Ward.	36	0.185	95%	23.12.2019	31.12.2022
53	Providing & laying sewer line & screen chamber - ii) Providing and Laying RC pipe (NP-4 class and above) sewer line of 1800 mm dia by Micro tunneling and pipe jacking method for connecting 1800 & 1200 mm dia. sewer lines to new screen chamber, N Ward.			50%	05.11.19	02.01.2023
54	P/L various dia sewers and diversion of Kurla (W) Sewage (on East of Mithi River) to Andheri (East) along west side of Mithi River from Bamandayapada to Saki Naka SP Stn. Andheri (E) Part I (a) P/L 800 mm dia RCNP3 class pipe sewer from Sakinaka pumping station to the south side of compound wall of cemetery plot along Sag Baug Road in K/East ward Andheri East (by open cut method).	36	0.250	95%	10.11.15	30.11.2021
55	Providing and Laying RC pipe (NP-4 class and above) sewer line of 800 mm dia by Micro tunneling and pipe jacking method on S. V. Road-from junction of G.M.L.R. to junction of PawanBaug Road and P/L 700 mm dia sewer on Pawan baug road from S.V. Road to Chinchawali Bunder road, Goregaon (w), in P/South ward.( By open cut method).	36	0.280	0%	-	31.12.2022
56	Providing and Laying RC pipe (NP-4 class and above) sewer line of 1200 mm by Micro tunneling and pipe jacking method from west side of Andheri Subway along S. V. Road, Ceasor Road, Veera Desai Road, Jeevan Nagar Road, Relief Road upto Versova Pumping Station by Microtunnelling method in K/west	36	2.445	73%	17.04.2018	31.12.2022



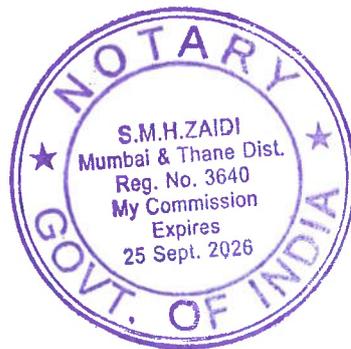
	ward.					
57	Providing and Laying RC pipe (NP-4 class and above) sewer line of 1000 mm dia by Micro tunneling and pipe jacking method from Kasturba Road No. 1 Junction Rajendra Nagar Road (i.e. At Welcome Hotel) Crossing Railway Line along DattapadaPhatak Road S.V.Road upto R.M. Bhattad Road, in R/C Ward (Micro T-2).	36	0.726	80%	01.03.2019	31.12.2022
58	P/L 300mm dia RCNP3 class pipe sewer line along tembipada Rd, 90ft Rd and Sanman singh Rd at Bhandup (West), S ward	23	1.110	8%	01.04.2021	31.12.2022
59	Providing and laying 300mm < 450mm < 600mm dia RC NP3 Class pipe sewer line along P. L. Lokhande Road from Amar Mahal Tembhe Bridge to Subhash Nagar Nalla, Chembur in M/West Ward.	30	1.000	0%	Work will be started after receiving traffic NOC.	15.05.2024
60	P/L 300mm dia RC NP3 sewer pipe for shifting of existing sewer line at BKC MMRDA Ground for High Speed Rail Corporation Limited.	21	0.540	13%	22.12.2020	31.05.2023
61	Providing and laying pipe sewerage network for Bainganwadi, Shivaji Nagar area and Mandala, Mankhurd, in M-East Ward. A) P/L 800> 600 mm dia RC pipe sewer line from Ghatkopar- Mankhurd Link Road (junction Dumping Road) to 90 feet Road (Junction Road No. 6) in Shivaji Nagar, Mankhurd in M-East ward.	25	1.275	0%	Work will be started after receiving traffic NOC.	28.01.2024
62	P/L 300 mm dia RCNP3 sewer line from Balmoral Bldg upto Baloxisto Society at Amrutvan near Gurukul dham Malad (E) P/S ward	9	0.100	0%	12.05.2020	31.01.2023
63	P/L 300 mm dia RCNP3 sewer line form Manvasthal Bldg. upto Junction of S.Sainik Vasant Rao R.H.marg Malad (E) P/S ward	18	0.350	0%	12.05.2021	31.01.2023
64	P/L 300mm dia RCNP3 class sewer pine line along 13.40mtr existing road from State Bank of India, Sai Darshan Society, Malad (E) to Sahkari Bank Limited, Malad (E) in P/N Ward	12	0.110	0%	12.05.2021	31.01.2023



65	P/L 450mm dia (OD) HDPE pipe sewer line (PN-6 class – PE 80 Grade : IS 14333) from Sant Gora Kumbhar road junction upto junction of Western Express Highway and Magathane road, Borivali (East), In R/Central ward	20	0.580	0%	01.10.2021	31.01.2023
66	1) P/L 230mm dia S.W. Sewer pipe at Air man mess(R R II) at East side of W.E. Highway from existing septic tank of Air force station to near by existing MCGM sewer, Santacruz(E) in H/East ward 2) P/L 230mm dia S.W. Sewer pipe at Maratha Colony, LOS Complex, 765 SU West side W.E. Highway from existing septic tank of Air force station to near by existing MCGM sewer, Santacruz(E) in H/East ward	10	0.200	10%	01.04.2021	31.05.2022
67	Providing & laying 400mm (OD) HDPE pipe sewer line (PN-6 Class- PE 80 grade : IS 14333) to correct grade and alignment by HDD method along S.V Road, from Ramkuwar Thakur Road Junction to Bharucha Road Junction at Dahisar (E) in R/North Ward	18	0.380	0%	01.10.2021	01.12.2023
68	P/L 350 mm dia. RC NP3 class pipe sewer line at M.G. road, Dharavi in G/N ward	11	0.720	0%	Work will be started after receiving traffic NOC.	31.12.2022
69	P/L Missing Link in K/W ward B)P/L 600mm, 900mm, 1200mm dia RCNP3 class pipe sewer line and 1200mm dia RCNP4 class pipe sewer line at Lallubhai Park, Juhu Millenium club, Vileparle(W) in K/W Ward .	12	0.145	0%	Work will be started after receiving traffic NOC.	31.12.2022
70	P/L 1200 mm dia sewer from Jn. of Liberty Garden Road No.2 and Turelpakhadi Road to Link Road, Malad (West), P/North. 1) From Jaymala Sadan to Chandra Bldg.Mamledarwadi Rd, Malad-E 2) From Audumber Co.op Hsg. Society to Nisha Apartment, Malad(W) in P/North	15	0.174	5%	06.02.2021	06.12.2022



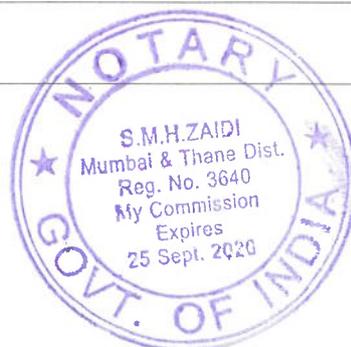
71	P/L 350mm dia RCNP3 class pipe sewer from existing Municipal MH in front of shreeram Samarth Classes near Gaodevi Mandir to Tata Power Junction along Gulmohar Road and Arun Kumar Vaidya road, Magathane, Borivali (East) in R/C ward	11	0.327	55%	07.03.2021	07.05.2022
72	P/L 300mm dia RCNP3 class pipe sewer from junction of Gurdwara Rd, Yograj Asharm to Parsiwadi at Santacruz-E, in H/East Ward	22	0.476	35%	22.01.2021	31.05.2023
			<b>41.04</b>			



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## List of Works, Tenders in Process

Sr.No	Description of the Work	Period (Months)	Length (Mtrs)
1	P/L 450mm dia sewer line at GMLR from P.K.raod to J.N.road by HDD/Pipe Jacking method in T Ward	15	0.480
2	P/L 300mm dia RCNP3 class pipe sewer along Dadabhai cross road No 2 at gillbart Hill in K/W ward	24	0.770
3	P/L Missing Link in K/W ward A) P/L 230 mm dia S.W. pipe sewer at quarry road from Beharam Bag upto existing sewer line off Vira Desai Marg near BEST Bus Depot., Andheri (W)	12	0.028
4	P/L 450, 600 & 1000 mm dia RCNP3 class pipe sewer line from Hariom Nagar to BUDP Pumping Station, Mulund (E) in 'T' Ward.	22	1.630
5	Providing sewerage network for Mysoor Colony and surrounding area in Chembur, M/West ward.	15	2.830
6	14) P/L 300 mm dia RCNP3 class pipe sewer at Sahar gaon in K/East ward.	12	0.150
7	P/L 300 mm dia RCNP3 class pipe sewer line along Akurli Cross Road for Sewerage facility for Arya Chanakya Layout in Kandivali(E) in R/South Ward.	15	0.193
8	Part B) Providing and laying R.C. pipe sewer lines at Pratiksha Nagar and nearby area in F/N ward 1. Barkat Ali Road 2. Kokari Agar Road 3. Pratiksha Ngr 4. Raoji Ganatra Rd 5. Salt Pan Road 6. Sangam Nagar Road 7. Sewri Chembur Road 8. VIT College Road	24	8.270
9	P/L 800 mm, 600mm, 400mm, 350mm dia. Sewer in S.N.Dubey Road, Rawalpada, Sant Mirabai Road, at Dahisar (E)	0	2.100
10	3) P/L 300 mm dia RCNP3 class pipe sewer along 13.4 mtr D.P. road connecting to Pathanwadi road, Pathanwadi, Malad ( E) in P/N ward	0	0.340
11	P/L 300mm dia RC NP3 class pipe sewer along bund wall at Janata colony and connecting to 800 mm dia sewer line on Veer Nariman Road, Worli village, Worli in G/South Ward.	0	0.510
12	P/L 250 mm dia RCNP3 class pipe sewer along Captain Samant Road from Gundecha Symphony up to SMGK House at Andheri (West) in K/West ward.	0	0.430
			<b>17.73</b>



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## List of Works in Phase II

Sr.No	Description of the Work	Period (Months)	length (Mtrs)
1	P/L 1200 mm dia RCNP4 class sewer line along Pathanwadi Rd from Mallica Hotel to Pimpri pada, Valentine Layout at P/N ward	30	1.360
2	P/L 800 mm dia. RC NP4 class pipe sewer line along Jerbai Wadia Rd., from Bhoiwada Naka to Rafi Ahmed Kidwai Marg, by Microtunneling Method, in F/S ward.	12	0.850
3	P/L 300mm dia RCNP3 class pipe sewer at Mahatma Phule Nagar, near IIT Powai in S ward.	10	0.400
4	i) Laying of sewer line on D.P. roads in Kannamwar Nagar layout (MHADA layout) situated at Vikhroli (E) along Eastern Express Highway in 'S' ward.	36	2.450
5	P/L 400mm, 300mm, 250mm dia RCNP3 class pipe sewer line from Ganesh Mandir along B.T. road, proposed D.P.Road in Sarvoday Nagar, On MHB Colony road, Shivneri Vasahat road, Jogeshwari(E) in K/East Ward.	33	1.450
6	P/L 300mm dia sewer line on Goregaon Mulund Link Road from Guru Govind Singh Road, Amar nagar to Bhandup Complex quarter in Mulund (E) T ward.	18	0.400
			<b>6.91</b>



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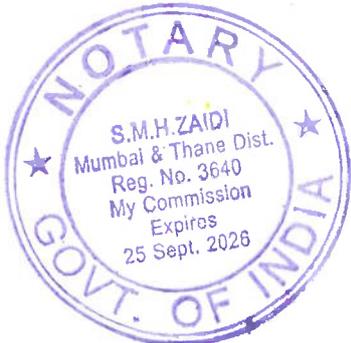
**Name of Work:- Providing & laying 355 mm dia (OD) HDPE pipe sewer lines ( PN6 Class-PE 80 grade: IS14333) to correct grade and alignment by HDD method in Adarsh Nagar MHADA Layout at Jogeshwari (W) i K/west ward**



120



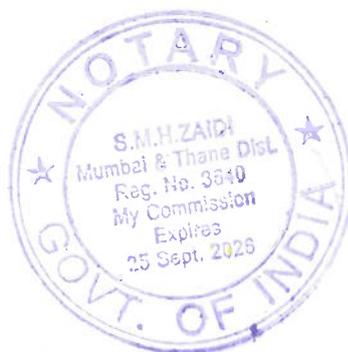
**Name of Work:- Providing & laying 355 mm dia (OD) HDPE pipe sewer lines ( PN6 Class-PE 80 grade: IS14333) to correct grade and alignment by HDD method in Adarsh Nagar MHADA Layout at Jogeshwari (W) i K/west ward**



121



**Name of Work:-** Providing and laying 355 mm dia (OD) & 280 mm dia (OD) HDPE pipe sewer (PN-6 Class- PE 80 grade : IS 14333) along Ali Talao Road, Kharodi Village, Malad (W) in P/North Ward.



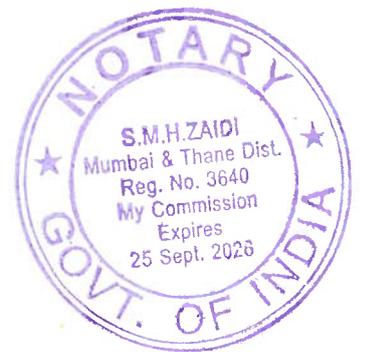
122



Name of Work:- P/L of 400 mm(OD) HDPE pipe line from Bhoomi Hills Society to ESIS Hospital and Faried Estate Gate, Thakur Village, Kandivali (E) in R/South Ward.

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My Commission  
Expires  
25 Sept. 2026  
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123



Name of Work:- P/L 400 mm dia (OD) HDPE pipe sewer (PN-6 Class- PE 80 grade : IS 14333)on Doodhsagar road upto Mohan Gokhale road, Goregaon (E) in P/South ward.

129



Name of Work:- P/L of 280 mm(OD) HDPE pipe line from Mahatma Phule Road junction upto Thakur Vidya Mandir School in Thakur Complex, Kandivali (E) in R/South Ward.



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96 B D Monte Street  
Bandra West  
Mumbai Suburban  
Maharashtra  
8 Feb 2021 10:42:39 am

Balance work of providing and laying 600 mm dia, 350 mm dia RCNP 3 class sewer line from lucky Hotel along station Road along Slaughter House Road, upto Badi Masjid, Bandra (W) H/W ward.



P/L 300mm, 350mm & 400 mm dia RCNP3 class pipe sewer lines along Veera Desai Extension Road from St. Catherine's Home up to Country Club at Andheri (West) in K/West ward.

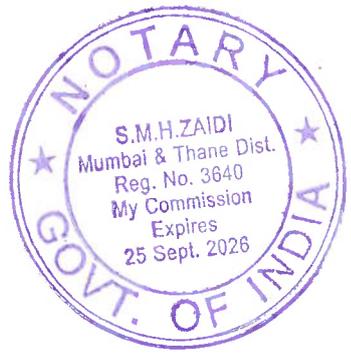
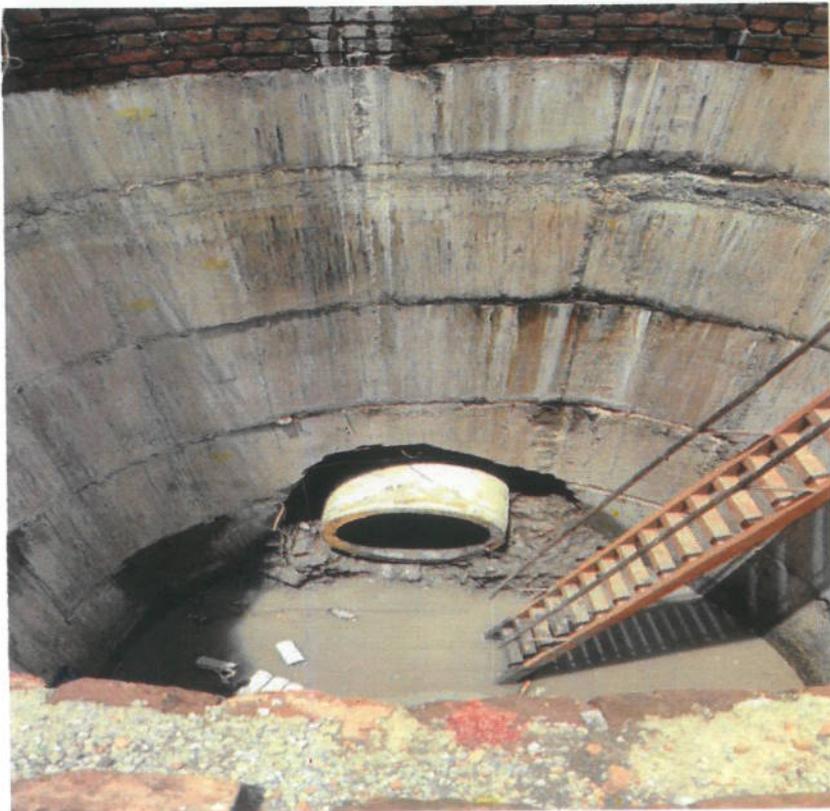


127



P/L of 400mm dai RCNP3 class pipe sewer line along Mahalkari Road and 350mm dai RCNP3 class pipe sewer line along Shivaji nagar road in kurar village, malad(E) in P/ North Ward

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Providing and laying R.C. pipe sewer lines from Anik Wadala to CST Road Junction by micro tunneling and pipe jacking method including ground improvement and allied work.

129



Providing and Laying RC pipe (NP-4 class and above) sewer line of 1200 mm dia. Pilot sewer line by microtunneling and pipe jacking method & HDPE pipes for cross connections by HDD method along Barister Nath Pai Road on east side of carriage way parallel to existing sewer line from Veer Tanaji Malusare Path Junction to Sant Savata pumping Station in E Ward.

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Mumbai & Thane Dist.  
Reg. No. 3640  
My Commission  
Expires  
25 Sept. 2026  
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Providing and Laying RC pipe (NP-4 class and above) sewer line of 1200 mm dia. Pilot sewer line by microtunneling and pipe jacking method & HDPE pipes for cross connections by HDD method along Barister Nath Pai Road on east side of carriage way parallel to existing sewer line from Veer Tanaji Malusare Path Junction to Sant Savata pumping Station in E Ward.

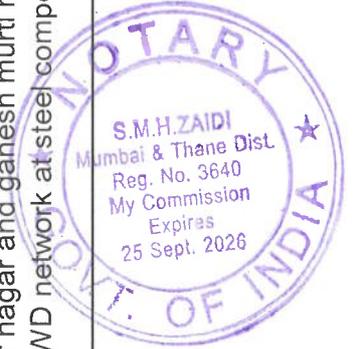


## ANNEXURE-IV

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## List of Completed works under SWD Department

Column	Column2	Column3	Column4
Sr. No.	Description of the work	Location of flooding spot	Remarks
1	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	Homi Bhaba road	Work completed
2	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	Jagannath Bhosale marg, Advent Building to Deepak Jog chowk	Work completed
3	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	Colaba Market from Khandoba Mandir to Lala Nigam road	Work completed
4	Extension of Geeta Nagar Outfall, Improvement of SWD network at Ambedkar nagar and ganesh murti nagar slum and providing new SWD network at steel compound slum in A Ward	Ganesh murti nagar, part 1, Near Police chowky	Work completed
5	Extension of Geeta Nagar Outfall, Improvement of SWD network at Ambedkar nagar and ganesh murti nagar slum and providing new SWD network at steel compound slum in A Ward	Ganesh murti nagar, part 2, Caption prakash pethe marg, cuff pared, Colaba	Work completed



6	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Prakash Pethe Marg (From Sadhu TL Vaswani Road to Frant of Backbay depot)	Work completed
7	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	Sarang street	Work completed
8	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	Nagdevi street	Work completed
9	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	Zakaria masjid street	Work completed
10	Construction of RCC Box drain of size 2.0 x 1.40 m along S.V.P. Road from junction of Patthe Bapurao Road upto Navalkar Lane.	Alankar Cinema junction	Work completed
11	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	Chikal wadi to Sleater Road in D Ward	Work completed
12	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Cadbury junction, Pedder Road	Work completed



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13	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Ali bhai Premji , Apsara, D.B. Marg	Work completed
14	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Wilson College / N. S. Patkar Road (Hughes Road) & A. Rangnekar Marg	Work completed
15	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Babulnath Road / Band Stand	Work completed
16	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	5th Lane kamathipura	Work completed
17	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-I (A, B, C, D & E Wards ) in City area for the year 2019-21.	Shankar Pupala Road Kamathipura	Work completed
18	Laying of 900 mm dia SWD through ongoing agency by tapping saving in other item of works L=170 m	Palace Cinema	Work completed
19	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Elbert junction, Br. Nath Pai Road	Work completed



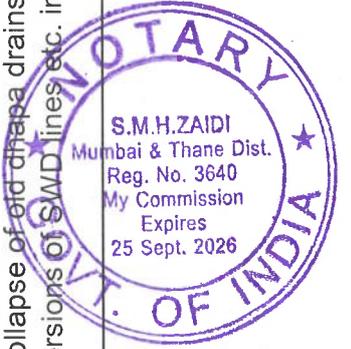
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20	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Star Cinema	Work completed
21	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	J.J. Junction near J.J. Police Station	Work completed
22	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	M. A. Road Part-2	Work completed
23	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Tank pakhadi Road in E ward	Work completed
24	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Sakhali Street with M.A road junction	Work completed
25	Laying of new SWD at M.T.V. road, Gowari Hindu Cemetery, Wadala in F/N ward.	Gowari cemetery	Work completed
26	Extension of 22 Marine outfall in G/S ward, const of SWD box drain, Const of RCC Nalla, elimination of flooding spot by augmentation of existing pipe drain, imp of swd network in heavily encroached dense slum area in Zone II (F/N, G/S & G/N ward) for the year 2018-21	Chunabhatti Bus depot.	Work completed



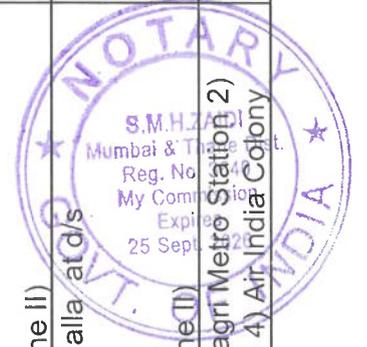
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27	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-II (GN, G/S, F/S, F/N) in City area for the year 2019-21.	Vidyalankar Road,	Work completed
28	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-II (GN, G/S, F/S, F/N) in City area for the year 2019-21.	Chunabhatti Stn (E)	Work completed
29	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-II (G/S, G/N, F/S & F/N Wards ) in City area for the year 2021-22.	Barkat Ali naka	Work completed
30	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-II (GN, G/S, F/S, F/N) in City area for the year 2019-21.	Vitthal Chavan road	Work completed
31	Extension of Major Civil works due to accident prone event like collapse of nalla walls, sudden cavity formation in carriageway, sudden collapse of old dhapa drains or arch drains, emergency diversions of SWD lines etc. in city area for the year 2020-22	Paradise Cinema Mahim	Work completed
32	Extension of Major Civil works due to accident prone event like collapse of nalla walls, sudden cavity formation in carriageway, sudden collapse of old dhapa drains or arch drains, emergency diversions of SWD lines etc. in city area for the year 2020-22	Mahim Junction	Work completed



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33	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-II (GN, G/S, F/S, F/N) in City area for the year 2019-21.	Shanti nagar	Work completed
34	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-II (GN, G/S, F/S, F/N) in City area for the year 2019-21.	Sane Guruji Marg	Work completed
35	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-II (GN, G/S, F/S, F/N) in City area for the year 2019-21.	Annie Beasant Opp. Poonam Chamber	Work completed
36	Extension of Major Civil works due to accident prone event like collapse of nalla walls, sudden cavity formation in carriageway, sudden collapse of old dhapa drains or arch drains, emergency diversions of SWD lines etc. in city area for the year 2020-22	Sitaram Jadhav marg	Work completed
37	Deepening & widening of Textile nalla at d/s L= 450 m	Elphiston Junction	Work completed
38	(Included in desilting works for Zone II) Deepening & widening of Textile nalla at d/s L= 450 m	Elphiston Station	Work completed
39	(Included in desilting works for Zone II) Deepening & widening of Textile nalla at d/s L= 450 m	Baluseth Mudulkar Marg	Work completed
40	(Included in desilting works for Zone II) Providing Flood Gate at 1) Vidyanaagri Metro Station 2) Sandip Patil Plot 3) Golibar Outfall 4) Air India Colony	Air India Road, Kalina	Work completed



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41	Construction of culverts at various locations in H west ward	Jn of C.D.Marg & 16 <sup>th</sup> Road	Work completed
42	Construction of SWD Missing Link on Pali Mala Road & Conversion of Pipe Drain into RCC Box Drain at St. John Road Near Gold's Gym and Augmentation of Box Drain on Dr. Ambedkar Road near Pali Naka and St. Roque Road (North Side) from Mehboob Studio to Veronica Road Junction in Ward No. 101 Bandra (West) in H/West Ward.	St. John Rd Gold Gym	Work completed
43	Augmentation of RCC Box Drain at VM Bhargav Road, Dattatray 'X' Lane and Anil Mehta Marg, Santacruz (W) in H/West Ward.	V.M.Dattatray Cross Rd	Work completed
44	Augmentation of RCC Box Drain at VM Bhargav Road, Dattatray 'X' Lane and Anil Mehta Marg, Santacruz (W) in H/West Ward.	V.M. Bhargav Rd to Dattatray Rd	Work completed
45	Augmentation of RCC Box Drain at VM Bhargav Road, Dattatray 'X' Lane and Anil Mehta Marg, Santacruz (W) in H/West Ward.	V.M. Bhargav Rd. from S.V.Rd to Link Rd	Work completed
46	Augmentation of Culverts at various locations in H/West Ward.	Cross Culvert at KFC	Work completed
47	Augmentation of RCC Box Drain at 11th Road from Guru Gangeswar Road to 7th Road, 7th Road from 11th Road to 10th Road, 10th Road from 7th Road to South Avenue Road and CD Marg, Khar Kabootarkhana, Khar (W) in H/West Ward.	C.D marg near Khar Kabutar Khana	Work completed
48	Augmentation of Box drains at Veronica Road from Damp Phill apartment to MET on S.V.Road from slaughter House Road junction to Boron nalla & on L.K. Mehta Road from S.V.Road to SWM check post, Ward No.102, Bandra (W) in H/West Ward	Opp Fire Brigade	Work completed



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49	Augmentation of Roadside Drain at 1) MG Road, from Chittaranjan Road to Bhogle Chawk, 2) MC Chhagla Marg and 3) Augmentation of Culvert across W.E. Highway and Sahar Road Junction, Vile-Parle (East) in K/East Ward.	M.C.Chagla Marg, Post Office	Work completed
50	Augmentation of Roadside Drain at 1) MG Road, from Chittaranjan Road to Bhogle Chawk, 2) MC Chhagla Marg and 3) Augmentation of Culvert across W.E. Highway and Sahar Road Junction, Vile-Parle (East) in K/East Ward.	Bhogale Chowk	Work completed
51	Construction/ Augmentation of SWD and Culverts at various Locations in K/East Ward.	Triveni Sangam	Work completed
52	Construction/ Augmentation of SWD and Culverts at various Locations in K/East Ward.	Little Flower School	Work completed
53	Remodeling & construction of various SWD & culverts in Vile Parle (E) in K/East Ward	Hanuman Road	Work completed
54	Augmentation of culvert and SWD at Sahar Road at the junction of service road of Gokhale Bridge & Nityanand Marg to Sahar Road in Andheri (E) in K/East Ward	Sahar Road	Work completed
55	Gundavali rd.No.3	Gundavali rd.No.3	Work completed
56	Remodelling/ reconstruction of essential S.W.D. works at various locations in K/West Ward	Rehab Building, Veera Desai Road	Work completed
57	Training & widening of balance part of Irla nalla at 1) Stretch from waghjibai Cemetry Culvert to V.M Road Culvert 2) Stretch from Alpha Culvert to Irla Nalla near Gulmohar road Culvert at Andheri(W) in K/W Ward.	Milan Subway	Work completed
58	Remodelling and Reconstruction of Culverts at various locations to relieve flooding in K/West Ward.	Dadabhai, Opp. Gokhalebhai school Vile Parle (W)	Work completed
59	Remodelling and Reconstruction of Culverts at various locations to relieve flooding in K/West Ward.	S.V. Road from N.J. Wadia Dispersary to JP Rd	Work completed
60	Improvement and construction of miscellaneous works of S.W.D., culverts, etc. to relieve flooding in K/West Ward		Work completed



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61	Improvement and construction of miscellaneous works of S.W.D., culverts, etc. to relieve flooding in K/West Ward	Irla Jn, S.V. Road	Work completed
62	Improvement and construction of miscellaneous works of S.W.D., culverts, etc. to relieve flooding in K/West Ward	Ajit Glass Jn	Work completed
63	Training & widening of balance part of Irla nalla at 1) Stretch from waghjibai Cemetry Culvert to V.M Road Culvert 2) Stretch from Alpha Culvert to Irla Nalla near Gulmohar road Culvert at Andheri(W) in K/W Ward.	JVPD & Four Bungalows	Work completed
64	Construction/Reconstruction/Remodeling of Storm Water Drains, Culverts at various locations in Beat no.134,137,138,141,144,and 146 in M/East Ward of Eastern Suburbs	Indira Nagar in beat no.134	Work completed
65	Construction/Reconstruction/ Remodeling of Storm Water Drains, Culverts at various locations in Beat no.134,137,138,141,144,and 146 in M/East Ward of Eastern Suburbs	Bajiprabhu Marg at Road no. 5&8 in shivaji Nagar	Work completed
66	Construction/Reconstruction/ Remodeling of Storm Water Drains, Culverts at various locations in Beat no.134,137,138,141,144,and 146 in M/East Ward of Eastern Suburbs	At the junction of Road no. 9 & 90 feet road near BEST bus depot	Work completed
67	Construction/Reconstruction/ Remodeling of Storm Water Drains, Culverts at various locations in Beat no.140,141,143,144 and 145 in M/East Ward of Eastern Suburbs	Gautam Nagar	Work completed
68	Construction/Reconstruction/ Remodeling of Storm Water Drains, Culverts at various locations in Beat no.140,141,143,144 and 145 in M/East Ward of Eastern Suburbs	Deonar Abattoir	Work completed
69	Construction/Reconstruction/ Remodeling of Storm Water Drains, Culverts at various locations in Beat no.140,141,143,144 and 145 in M/East Ward of Eastern Suburbs	Kena Market	Work completed



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70	Training and widening of vallabhbaug nalla from Naidu colony to Vallabhbaug extension road	151, New Pant Nagar, Ghatkopar (E)	Work completed
71	Improvement of various roads in TWT / asphalt in N ward of ES	Narayan Nagar, Ghatkopar (W)	Work completed
72	Improvement of two roads in Garudiya nagar (Private Layout) Ghatkopar east in N ward of ES in Rigid Pavement	Sati Krupa shopping centre, Garodia Nagar, Ghatkopar (E)	Work completed
73	Improvement & construction of misc. works of S.W.D. in P/North Ward	Navagaon Malad (W)	Work completed
74	Construction of 6 m wide drain	Malad Subway	Work completed
75	SWD/Road Work at Nutan Vidyamandir	Nutan Vidya Mandir, Appapada, Malad E	Work completed
76	Construction/ Remodelling of Box Drain from Vrindavan Hotel to Marve Road Junction at SV Road Malad (West) in P/North Ward.	S.V. Road Nataraj Market Malad W	Work completed
77	Improvement and Construction of Essential SWD, Culverts etc. at various locations in P/North Ward.	Jankalyan Nagar, Baf Hira Nagar Malad W	Work completed
78	Improvement of various SWD, Culverts at Mamletdar Wadi, Liberty Garden, Malad (West) in P/North Ward	Liberty Garden	Work completed
79	Construction/remodelling of box drain from Marve Queen Bldg. to CPWD Culvert on Abdul Hamid Road in Malvani, Malad (W) in P/N Ward.	Marve Queen building, Malwani, Malad (W)	Work completed
80	Improvement and construction of Miscellaneous SWD work at various Locations in P/South Ward.	Link Road between Kokan swad restaurant to Galaxy height society	Work completed
81	Improvement and construction of essential works at various locations in Goregaon (West) in P/South Ward	Motilal Nagar	Work completed
82	Training of Piramal nalla from Govindji Shroff marg near HE Const office to Vasari Hill Road to relieve flooding at Maheshnagar and nearby area, Goregaon West in P/South Ward.	Mahesh Nagar Society	Work completed
83	Reconstruction of various culverts in P/South ward.	Link Road & Chincholi Bunder junction	Work completed
84	Culvert at SV Road, Goregaon West in P/south	Piramal Nagar near Pallai tower, S.V. Road	Work completed



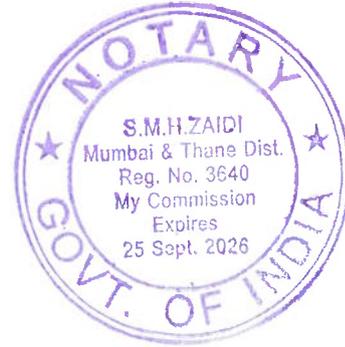
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85	Essential Works at various locations in R/South and R/Central Ward in order to abate Flooding in the locality.	Mathre Nalla	Work completed
86	Training and construction of various minor nallas in R/Central ward	Opp. Aura Hotel Link Road	Work completed
87	Construction of SWD to give relief from water logging at Shakti Complex and Dahisar Subway in R/North Ward by Central Agency.	Dahisar Subway	Work completed
88	Construction of SWD to give relief from water logging at Shakti Complex and Dahisar Subway in R/North Ward by Central Agency.	Shakti Complex	Work completed
89	Remodelling of SWD network to relieve flooding in Anand Nagar, Dahisar (E) in R/North ward.	Anand Nagar	Work Completed of Flood gates and Pumping arrangement Installed
90	Essential Works at various locations in R/South and R/Central Ward in order to abate Flooding in the locality.	S.V Road, Near Namaha Hospital, Kandivali (W)	Work completed
91	Essential Works at various locations in R/South and R/Central Ward in order to abate Flooding in the locality.	Green Meadows, Lokhandwala Complex, Kandivali (E )	Work completed
92	Essential Works at various locations in R/South and R/Central Ward in order to abate Flooding in the locality.	Janupada Slum	Work completed
93	Essential Works at various locations in R/South and R/Central Ward in order to abate Flooding in the locality.	Gundecha Greeens	Work completed
94	Training , Widening & Construction of Palsar River from Kurar Culvert to Akurli Road Culvert at Kandivali (East) in R/South Ward (Palsar River)	Akurli Road, Near Thakur House, Kandivali (E)	Work completed
95	Training & Widening of Kurar River System at Malad (East) in P/North Ward.	Chincholi Bunder (Part)Malad (W)	Work completed



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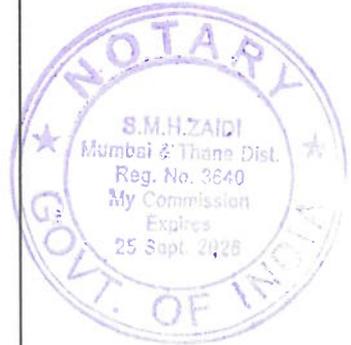
96	Augmentation of Roadside Drain at 1) MG Road, from Chittaranjan Road to Bhogle Chawk, 2) MC Chhagla Marg and 3) Augmentation of Culvert across W.E. Highway and Sahar Road Junction, Vile-Parle (East) in K/East Ward.	Bahar Junction	Obstruction of Tree and Heavy traffic as well as utility hurdels. However, flooding spot has been tackled
97	Construction of SWD outlets of Sagbaug Road from Shemaroo Entertainment to Mithi River and Kanakia Seven Bldg to Mithi River, in Ward no. 86, Marol, Andheri (E) in K/East Ward	Sagbaug Road	Utility hurdels caused delay. However, flooding spot has been tackled



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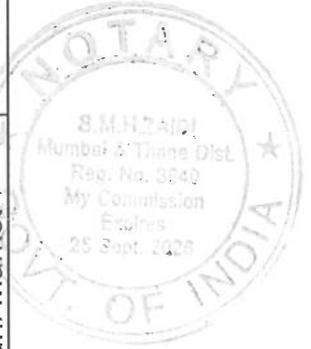
## List of ongoing works under SWD Department

Sr. No.	Description of the work	Location of flooding spot	Remarks
1	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-I (A, B, C, D & E Wards ) in City area for the year 2021-22.	Kashinath compound and / or setalwad lane	Traffic NOC received on 01.04.21. Work started on 19.04.21. Work in downstream is completed. Upstream works to be initiated.
2	Augmentation of existing SWD network at Dadar TT and Mancherji Joshi Road in F/N ward.	Khodadad Circle	Work is going to spillover. There are issues at site 1. HE line diversion work is in progress. 2. Proposed additional Box section for 120 m length passes through private property(Leased out property of MCGM) where it is not feasible to execute the work. Hence, the realignment is proposed along existing footpath. 3. Work is in progress in co-ordination with ward office.



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3	Augmentation of existing SWD network at Dadar TT and Mancherji Joshi Road in F/N ward.	Tilak Bridge junction Dadar (E)	Work is going to spillover. There are issues at site 1. HE line diversion work is in progress. 2. Proposed additional Box section for 120 m length passes through private property(Leased out property of MCGM) where it is not feasible to execute the work. Hence, the realignment is proposed along existing footpath. 3. Work is in progress in co-ordination with ward office.
4	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works in Zone-II (GN, G/S, F/S, F/N) in City area for the year 2019-21.	Hemant Manjarekar Marg	Connection to Somaiyya nalla is pending due to encroachment. There are 5 structures in 10m alignment. Structures are to be removed by ward. Spillover work
5	Construction of Peripheral Nalla at Pratiksha Nagar	Shivaji chowk, Pratiksha Nagar	Work order issued on 30.09.2021.Pratiksha Nagar peripheral nalla is fully encroachment and commencement of the work will be possible only after removal of encroachment.
6	Construction of Peripheral Nalla at Pratiksha Nagar	Pratiksha nagar	Work order issued on 30.09.2021.Pratiksha Nagar peripheral nalla is fully encroachment and commencement of the work will be possible only after removal of encroachment.
7	Providing flood gates and pumping arrangement upto culvert and invert chamber at Gandhi Market	Gandhi market	Work in progress



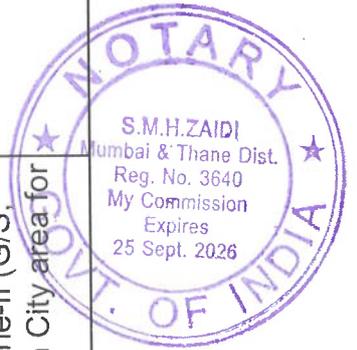
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8	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-II (G/S, G/N, F/S & F/N Wards ) in City area for the year 2021-22.	Dadar Railway Station	Traffic NOC Awaited. Work order issued on 25.02.2021 .Traffic NOC received on ,6/5/2021. Work started on 21.05.21
9	Mitigation of Flooding Spot near Masjid Railway Station	Masjid Bunder Railway Track in B ward	LOA issued on 31.5.2021.Upstream of railway-work completed. Down stream of railway -Work in progress
10	Augmentation of SWD network by replacement of 1600 mm dia. pipe drain to RCC Box drain of Size 3m X 2m in MBPT premises along HPCL Sewri Terminal-II of Caltex road till outfall in F/South ward.	BPT Colony	Traffic NOC received on 06.10.2021. Work commenced on site.
11	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-II (G/S, G/N, F/S & F/N Wards ) in City area for the year 2021-22.	Zakeria Bunder road Vishwa vihar hotel	Work order issued on 25.02.2021. Traffic NOC received on 12.04.21. Work commenced on 19.04.21
12	Construction of RCC box drain of size 3m X 1.8m, 4.5m X 2.5m and laying of 1200 mm dia. RCC pipe SWD in MBPT premises along Reynold's colony upto outfall in F/South ward.	Reynold's Colony	Traffic NOC received on 29.09.21. Work commenced on site



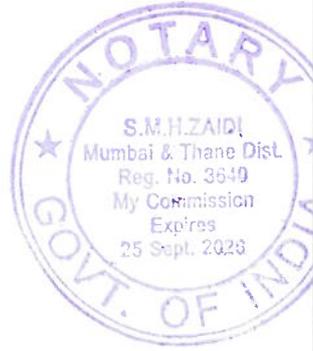
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13	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-II (G/S, G/N, F/S & F/N Wards ) in City area for the year 2021-22.	Near nurses staff quarters (S.S. Rao Road )	Work order issued on 25.02.2021. Traffic NOC received on 05.04.21. Work started from 12.04.21
14	Augmentation of SWD at Laxmi Baug Nalla (M.G.Road) from Dhobi Ghat upto New outfall at Piwala Bunglow, Sant Rohidas Road, Dharavi in 'G/N' Ward.	Mukhyadhyapak Bhavan / Road No. 24	Work not started for the current season. Traffic NOC is awaited.
15	Augmentation of SWD at Laxmi Baug Nalla (M.G.Road) from Dhobi Ghat upto New outfall at Piwala Bunglow, Sant Rohidas Road, Dharavi in 'G/N' Ward.	Dhobighat	Work not started for the current season. Traffic NOC is awaited.
16	Improvement of Ganpatrao Kadam Marg	Ganpatrao Kadam road	Work in Progress through road work. Traffic Permission is received for part work. Lower road width and 2 directional traffic
17	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-II (G/S, G/N, F/S & F/N Wards ) in City area for the year 2021-22.	Khan Abdul Gaffar Khan Road	Work order issued on 25.02.2021. Traffic NOC received on 05.04.21. Work started from 12.04.21. Work to be resumed from 20.10.21



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18	Remodeling of SWD system including conversion of dhapa drain, enlargement of existing pipe drains, providing & laying new R.C.C. pipe drains and any other SWD works to abate flooding spots in Zone-II (G/S, G/N, F/S & F/N Wards ) in City area for the year 2021-22.	Opposite lane of sea link landing at Khan Abdul Gafar khan road	Work order issued on 25.02.2021. Traffic NOC received on 05.04.21. Work started from 12.04.21. Work to be resumed from 20.10.21
19	Augmentation of SWD /Nalla from Khar Subway to Service Road, Santacruz (E) in H/E ward	Khar subway	Total station survey carried out ----- applied for traffic NOC, same is awaited. Report submitted to SWD(Planning) dept. along with the remarks of S.O.(Pumping) dept., MSDP, B.P.(Survey) dept. - - - Remarks from SWD PC is awaited. On receipt of the same the work will be started after 15.10.2021. Augmentation to the Existing alignment of SWD passing through Golibar pumping station as per remarks issued by Planning Cell office as per BRIMSTOWAD master plan is not feasible on site due to various site constraints like existing rock tunnel, sewer well, pump house, slum. In this case proposal of realignment of nalla within the Golibar Pump stn. submitted by zonal SWD office in consultation with CE(SO) & CE(MSDP) is under scrutiny by SWD planning cell and same will be submitted for approval of competent authority by 25th OCT 2021.
20	Augmentation of Box drain at Sundar Nagar Road from KES school to CST Road Junction, Santacruz (E) in H/E Ward	Sunder Nagar	Applied for traffic NOC which is awaited. Now work is started after monsoon .



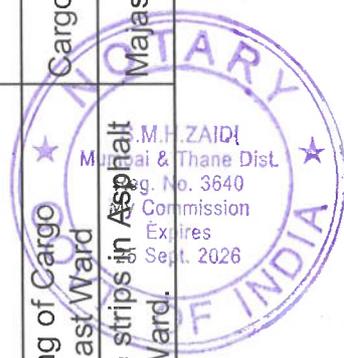
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21	Augmentation of Drain at Gurudwara Road, Jain Derasar Road, Santacruz (W) in H/West Ward.	Jain Derasar Rd	Flooding spot is partially tackled. Work of one side drain of road completed. traffic NOC awaited.
22	Augmentation Box Drain At Linking Road from St. Lawrence School to Talmiki Road jn, Talmiki Road from Linking Road jn to Open Plot, Santacruz (W), in H/West Ward.	Green Street Nalla	traffic NOC awaited,
23	Augmentation of SWD, Conversion of Pipe Drain into RCC Box Drain, Missing Link Construction along SV Road from Tilak Road Junction to Sane Guruji Road (Milan Subway), Santacruz (West) in H/West Ward	Tilak Rd Jn	traffic NOC awaited,
24	Augmentation of Culverts at various locations in H/West Ward.	S'Cruz Police Stn	one side of road culvert completed. Flooding spot tackled partially. due to Traffic congestion at Link Rd.
25	Augmentation of RCC Box Drain at 11th Road from Guru Gangeswar Road to 7th Road, 7th Road from 11th Road to 10th Road, 10th Road from 7th Road to South Avenue Road and CD Marg, Khar Kabootarkhana, Khar (W) in H/West Ward.	Poddar Circle lane to 10 <sup>th</sup> V.M.Rd	Utility huedles caused delay.



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26	Augmentation of RCC Box Drain at 11th Road from Guru Gangeswar Road to 7th Road, 7th Road from 11th Road to 10th Road, 10th Road from 7th Road to South Avenue Road and CD Marg, Khar Kabootarkhana, Khar (W) in H/West Ward.	Jn of 7 <sup>th</sup> Rd & 11 <sup>th</sup> Rd	Utility huedles caused delay.
27	Augmentation of Box drains at Veronica Road from Damp Phill apartment to MET on S.V.Road from slaughter House Road junction to Boron nalla & on L.K. Mehta Road from S.V.Road to SWM check post, Ward No.102, Bandra (W) in H/West Ward	Opp Saiba Hotel	Utility huedles caused delay.
28	Augmentation of Box drains at Veronica Road from Damp Phill apartment to MET on S.V.Road from slaughter House Road junction to Boron nalla & on L.K. Mehta Road from S.V.Road to SWM check post, Ward No.102, Bandra (W) in H/West Ward	Maribai Colony	Utility huedles caused delay.
29	Widening and training of Kondivita nalla from MIDC Centre road to Keytou Industrial estate in K/East, Ward	Akruti Centre	Work in progress however traffic NOC is awaited.
30	Widening and training of Cargo complex nalla in K/East Ward	Cargo Complex Nalla	Airport Security Clearance is awaited as work comes under High Security Zone.
31	Improvement of side strips in Asphalt on J.V.L.R K/East Ward.	Majas Depct JVLR	Work in Progress through Road department.



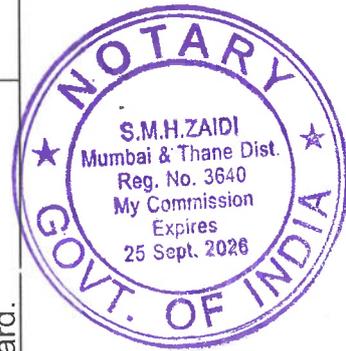
32	Training and widening of Fairdeal & Indian Oil Nalla in K/West Ward	Singh Compound,	Work in progress. Due to encroachment work is affected. Work of Indian oil nalla of length 250 M is completed out of 1250 M. Partially relief to nearby locality.
33	Widening /Deepening /Reconstruction of Nalla No.10 at Sakinaka, from K.K Electric & Hardware, near Sakinaka Metro Station near to Quality Bakery, along Durgamata Mandir Road, in L Ward	Chandivali MHADA Colony, Sakinaka Police Station, Kurla (W)	Work is in progress. Due to encroachment, remaining work is slow, and is being carried out as and when clearance is received from Ward. Most of the work is completed hence the flooding is minimized.
34	Improvement/Widening/Reconstruction Of SWD Network on P.L Lokhande Marg in M/East & M/West Ward.(CA No.311)	P L Lokhande Marg, Mukund Nagar, Chembur (West)	Tree cutting permission awaited, partly work completed to minimize the flooding
35	Training / Widening / Deepening / Reconstruction of Megacity Nalla & Suman Nagar Nalla at East side of E.E. Highway, Postal Colony Chembur, in C.A. 501, M/West Ward. Eastern Suburbs.	Postal Colony, Chembur	Due to obstruction of underground utility such as Bombay -2 live watermain, RCF STP line, gas line, pillars of Metro line the work of mega city nalla could not be executed except 150 meter length.
36	Construction of Box drain along west side of V.N. Purav road from Chembur naka to Suman nagar junction in Chembur.	Near Vijay Salse V.N. Purav marg, Chembur	Tree cutting permission awaited, partly work completed to minimize the flooding
37	Miscellaneous works in M/W Ward.	V.N. Purav marg, Suman nagar, Chembur (E)	Tree cutting permission received. Partly work completed to minimize the flooding
38	Miscellaneous works in M/W Ward.	Umarshi Bappa Chowk, Chembur	Tree cutting permission received. Partly work completed to minimize the flooding
39	Miscellaneous works in M/W Ward.	Surana Hospital, Chagan Petrol pump, V.N. Purav marg	Tree cutting permission received. Partly work completed to minimize the flooding

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40	Training of Somaiyya nalla from Himgiri society Vidyavihar (E) to EE highway in N Ward (Catchment no 310)	Near Tilak Nagar Station	work in progress
41	Improvement of Roadside Drain and Culvert at Ramabai Nagar	Ramabai Nagar, Ghatkopar (E)	work in progress
42	Improvement of Roadside Drain at Nityanand Nagar	Nityanand Nagar, Opp. Buddha Vihar Ghatkopar (W)	Tree authority permission is awaited. Partly work is completed to minimize the flooding
43	Training & Widening of Kurar Nalla System at Malad (East) in P/North Ward.	Kurar Nalla Tanaji Nagar Malad (E)	Both sides of Kurar Nalla are fully encroached. --- -- Inventory of affected structures & Total Station Survey is carried out and submitted to Asst. Comm. P/North ward 19.01.2021. work is possible only after removal of encroachment. ---- However, temporary measures are completed. which will give partial relief to Tanaji Nagar Area.
44	Training & Widening of Kurar Nalla System at Malad (East) in P/North Ward.	Narayan Shukla Chawi	Both sides of Kurar Nalla are fully encroached. --- -- Inventory of affected 812 structures & Total Station Survey is submitted to Asst. Comm. P/North ward 19.01.2021. work progress depend on encroachment removal---- However, temporary measures are taken to resolve flooding partially.
45	Training and Widening of balance portion of Mahakali Nalla from CPWD Culvert to Malad Creek at Malad (West) in P/North Ward.	Lagoon road	8 structure affecting aliagement of nalla. Total station survey and inventory is submitted to A.C. P/North ward on 17.03.2021.



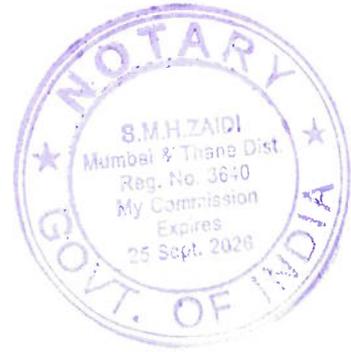
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46	Training & Widening of Shastri Nagar Nalla from Siddharth Nagar Hospital to Creek at Goregaon(West) P/South ward.	Shastri Nagar, Goregaon West	South side of Nalla is totally encroached .----- 339 nos of structures not removed till date by P-South ward . The flooding spot of Shastri Nagar will be eliminated only after removal of encroachment on South side of nalla.
47	Improvement and construction of Miscellaneous SWD work at various Locations in P/South Ward.	Dhakad Compound	Private plot Encroachment and due to ownership dispute.
48	Improvement and construction of essential works at various locations in Goregaon (West) in P/South Ward	Hanuman Nagar / Bhagyoday Society	Encroachment of 180 Hutments for the entire length of PREM NGR NALA... Total station survey competed handed over to ward. The said flooding spot will be eliminated only after removal of encroachment on site.
49	Training and Construction of Chandavarkar Nalla Box Drain from SV Road to TJSB Bank along Chandavarkar Road and Open Nalla at encroachment stretch of Navin Babu Nagar, Borivali (West) in R/Central Ward.	Chandavarkar Road Borivali West	The 95% agumentation of road side Drain completed and balance work of chandavarkar nala is now started.
50	Training and construction of various minor nallas in R/Central ward	D N Mhatre Road	Total length of SWD 405m out of which 330m is completed. ----- The balance work is now started.
51	Training and construction of various minor nallas in R/Central ward	Magathane Bus Depot, Borivali(E)	1) FS of Magathane depo is tackede --- 2)The progress of work at Phulpakhru Garden is hampered due to non removal of encroachment (Fish market). The work will be started subject to removal of encroachment.
52	SWD at Ganesh Nagar, MG Road	Ganesh Nagar , 60 ft DP Road	The balance work is now started and the same will be completed before 31.05.2022
53	SWD at Ganesh Nagar, MG Road	MG Road upto Hindusthan Naka	The balance work is now started and the same will be completed before 31.05.2022



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54	Training , Widening & Construction of Poisar River from Kurar Culvert to Akurli road Culvert at Kandivali (East) in R/South Ward (Poisar River)	Hanuman Nagar, Kandivali ( E )	There are 264 no. of structures are balance for demolition which are affected in proposed alignment of retaining wall due to which 756 m of work is held up.
55	Training & Construction of Balance Stretches of Poisar River From D/s of Dahanukar Wadi Bridge to Link Road, including , B, Branch of Poisar River in Kandiwali West in R/South Ward.	Dahanukar Wadi Cemetery Road, Kandivali (W)	AC R/S assured to remove the encroachment. Poisar River branch B" work is held up due to non removal of encroachment. Existing width is 5 to 6 m which is to be widened upto 20 m.



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## List of new proposed works under SWD Department

Sr. No.	Name of package / Tender	Description of the works	Type of work	Location of the flooding spot (If FS related work)
1	Laying of 900mm dia RCC SWD pipe at Bomanji Petit Road & internal road of Omkar park layout from Bomanji Petit Road to Tata garden across bhulabhi Desai road ( warden road) in D ward in City area for the year 2021-22	Laying of 900mm dia RCC SWD pipe at Bomanji Petit Road & internal road of Omkar park layout from Bomanji Petit Road to Tata garden across bhulabhi Desai road ( warden road) in D ward in City area for the year 2021-22	FS Related Works	Bomanji Petit marg
2	Ct-50 Extension of Holding Pond & Construction of Slab over holding ponds in Pramod Mahajan Udyan in G/North ward to abate flooding at Hindmata Cinema area in F/south ward.	Construction of Holding pond of size 81 m x 41 m.	FS Related Works	Hindmata Junction
3	Construction of holding pond & construction of slab over holding ponds in St. Xaviers Ground in F/S ward to abate flooding at Hindmata cinema area in F/S ward.	Construction of Holding pond of size 65mx65m.	FS Related Works	Hindmata Junction
4	Construction of new RCC box drain of size 2.5mx2.5m from Gadi Bunder junction upto Hindustan lever outfall in MbPT premises along Haji bunder road in F/S Ward.(Catchment No.122)	1)Total length - 600m Proposed additional RCC box drain size 2.5mx2.5m 2)Total length -250m Augmentation of existing 600mm into 1600mm dia.	FS Related Works	

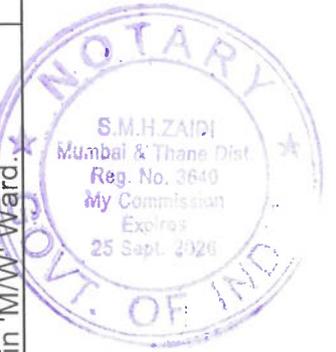


5	Construction of RCC Box drain of size 3.4X2.5 M and 2.5 X 2.5 M along Anandrao Nair Marg from Jn. of Mumbai Central upto Saat Rasta in 'E' Ward.	Total Length 750 m	FS Related Works	Nair Hospital and Anandrao Nair Marg
6	Providing and laying of 1800mm dia. SWD on 90 feet road Dharavi from Himalaya Hotel to the junction of Sant Rohidas marg by Micro-Tunnelling method in G/North ward.	Laying of 1800 mm dia SWD pipe by microtunnelling method. (Length 415 m)	Miscellaneous and Emergency Works	
7	Laying of Rising main at Dr.E.Moses road near Mahalaxmi station in G/South Ward.	Total Length 250m	FS Related Works	Mahalaxmi station and its upstream portion
8	Ambedkar Circle to Laxmibaug nalla	Reconstruction of road side drains and culvert with uniform cross section as per M/s MWH remark	FS Related Works	ambedkar Circle, Ankush Gawade Marg
9	remodeling and reconstruction of Narkar marg from Ghatkopar railway track to Pant Nagar Police Qrtirs and remodeling and reconstruction saint dnyaneshwar Marg frm 90 feet road to Gaurishankar wadi nalla.	Proposed box drain and culvert with uniform cross section as per M/s MWH consultant	FS Related Works	Narkar Marg, Hingwala Lane, tilak road, vallabh baug Lane
10	Building no 81 to Laxmibaug nalla	Proposed box drain and culvert with uniform cross section as per Planning Cell remark	FS Related Works	Building No 81, Pant Nagar
11	Widening of Somaiya nalla from tansa main to Vidyayihar Station East	Remodeling of dilapidated/ collapsed UCR/CC Nalla wall in RCC as per M/s MWH remark	FS Related Works	ONGC colony, Shastri Nagar
12	imprvmt of SWD at Ramabai nagar from D B Pawar Chowk to Laxmibaug nalla	Proposed box drain and culvert with uniform cross section as per Planning Cell remark	FS Related Works	Ramabai Nagar , Kamraj Nagar



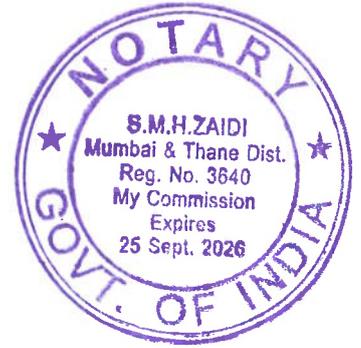
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13	Other Misc work as per letter received	Various works of reconstruction of SWD as per letter received from local councillor	Miscellaneous and Emergency Works	
14	High level reservoir nalla from Jagruti Nagar station to High level reservoir	Reconstruction of dilapidated/ collapsed UCR/CC Nalla wall in RCC as per M/s MWH remark	Miscellaneous and Emergency Works	
15	Box drain at Samta colony road	Reconstruction of dilapidated/ collapsed CC box drain in RCC as per Planning Cell Remark	Miscellaneous and Emergency Works	
16	Reconstruction of dilapidated old culverts after NDD tests etc.	Repairs / Reconstruction of various Dilapidated / damaged culverts in N ward as suggested by Structural Consultant	Miscellaneous and Emergency Works	
17	Laxmi Baug nalla repairs and recons	Construction of proposed RCC nalla retaining wall.	Miscellaneous and Emergency Works	
18	Deepening / Widening / Augmentation of nalla near Shivaji nagar Police Station and other SWD in CA 311A in M/East ward.	Improvement of SWD / Culverts in RCC	FS Related Works	Shivaji Nagar Police station
19	Deepening / Widening / Reconstruction of SWD network of Deonar Abottoir Periphery Road and M.T.Kadam marg in M/East ward.	Improvement of SWD / Culverts in RCC	FS Related Works	Infront of M/East ward office
20	Reconstruction of retaining wall of Rahul nagar and Bharat nagar nalla in catchment area no. 509 & 510 respectively in 'M/W' Ward..	construction nalla wall in RCC	Miscellaneous and Emergency Works	



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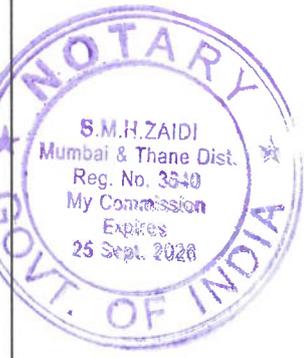
21	<p>Widening/Training/ Deepening/ Reconstruction of various nallas in unsurveyed catchment area of Chembur in 'M/West' Ward, 'M/East' Ward. 1) Gavanpada nalla from Gawan village/ Refinery bus stop to compound wall of Bharat petroleum refinery (Tata power Trombay Thermal power plant), Bhikaji Damji patil road, Mahul, Trombay in 'M/West' Ward. 2) Prayag Nagar nalla from metal box factory, L.U. Gadkari marg to HPCL LPG Bottling plant, Mahul Chembur in M/East Ward. 3) Vitasanchya Nalla from bus stop near RCF Ltd gate no.2 to Vitasanchya Co-opp society, Mysore colony, Chembur in 'M/West' Ward.</p>	<p>construction of nalla wall in RCC</p>	<p>Miscellaneous and Emergency Works</p>	
22	<p>Reconstruction / widening of Duncon Causway Nalla from B.K.C. Connector to Rahul Nagar Nalla</p>	<p>Reconstruction of Nalla in RCC Duncon Causway - Length=785 m, Existing Size=1.8x 2.0 m, Proposed size=2.0 x3.0 m</p>	<p>Miscellaneous and Emergency Works</p>	



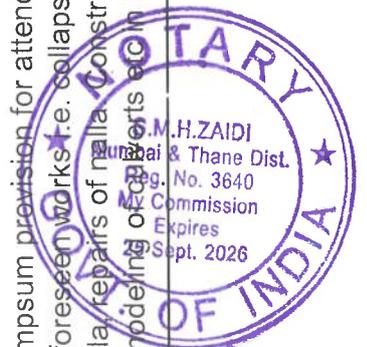
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23	Miscellaneous works in beat no 161, 165, and 167 & 168 in L ward	1) 90' Road Lokmanya Tilak Nagar to Punjab National Bank -225 Mtr, ext size- 1.0 X1.0 mtr, proposed size- 1.2 X1.0 Mtr, 2) 90' Road Punjab National Bank to LBS Nagar -205 Mtr, ext size- 1.0 X1.0 mtr, proposed size- 1.2 X1.0 Mtr, 3) Hanumann Gully LBS Nagar , Kamruddin Chawl - 255 Mtr, ext size- 0.45X0.45 mtr, proposed size- 0.6X0.6 Mtr, 4) In front of Noorani Masjid- 210 Mtr, ext size- 0.6 Mtr x 0.6 Mtr , proposed size- 0.6X0.9 Mtr, 5) Kankali Chawl to Samta Chawl - 360 Mtr 0.45X0.45Mtr, proposed size- 0.5X0.5Mtr, 6) Jay Ambe motor & Shivgan Gym.- 208 mtr, ext size- 0.45X0.45 Mtr, proposed size- 0.6X0.8Mtr. 7) Sidharth So. to Netaji Nagar Khadi No.3- 160, ext size- 0.5 X 0.5, proposed size- 0.6X0.9 Mtr 8) Masrani Ploice chowky to shantabi Chawl 330 Mtr. ext Size- 0.6 x 0.6 Mtr. Propesd size- 0.9 Mtr. x 0.9 mtr. 9) Maharashtra Urdu School to Faiz Nalla	Miscellaneous and Emergency Works	
24	Miscellaneous works in beat no 156, 159, 162, 163 and 164 in L ward		Miscellaneous and Emergency Works	

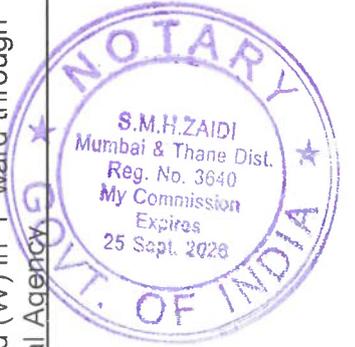


25	Reconstruction /Widening of Nalla no 11 from behind Nahar International School upto AGLR near Society Masjid Sakinaka, Kurla West	Reconstruction of Nalla in RCC Nall No. 11 - Length=975 m, Existing Size= 2.5 to 5 mtr.x 2.5 mtr, Proposed size=2.5 to 5 mtr x 2.5 mtr.	Miscellaneous and Emergency Works	
26	Reconstruction /Widening of Nalla no 13 from Near fish shop , Junction of Khairani road and Nahar amrut Shkti road to near Shridevi hotel AGLR, Sakinaka, Kurla W	Reconstruction of Nalla in RCC Nall No. 13 - Length=680 m, Existing Size= 2.5 to 5 mtr.x 2.5 mtr, Proposed size=3.5 mtr x 2.5 mtr.	Miscellaneous and Emergency Works	
27	Reconstruction /Widening of Shivrushti nalla, from Ganesh Temple to Nehru Nagar nalla, Kurla (E)	Reconstruction of Nalla in RCC Shivshrushti Nalla - Length= 290 m, Existing Size= 3.0 to 3.5 X 2.0 m, Proposed size= 4.0 m	Miscellaneous and Emergency Works	
28	Miscellaneous works in beat no 151, 158, 166,170 and 171 in L ward	Reconstruction of raod side drains and culvert with uniform cross section	Miscellaneous and Emergency Works	
29	Training/ Reconstruction /Improvement of Arm of Nalla No-10 from Tex Center, Narayan plaza, Yadav nagar to Hari masjid Sakinaka Kurla W	Reconstruction of Nalla in RCC Nall No. 10 - Length= 580 m, Existing Size= 4.0 mtr.x 1.3 mtr, Proposed size=4.0 mtr x 2.0 mtr.	Miscellaneous and Emergency Works	
30	Reconstruction/ Widening of Uday nagar nalla in beat no 156, Kurla (W)	Reconstruction of Nalla in RCC Udaya Nagar Nalla - Length=125 m, Existing Size= 2.0 x 2.0 mtr, Proposed size=6.0 mtr x 3.0 mtr.	Miscellaneous and Emergency Works	
31	Lumpsum provision for attending unforeseen works i.e. collapsed nalla, repairs of nalla, construction/ remodeling of culverts etc in L Ward	Reconstruction of Collapsed nalla wall and culverts in emergency.	Miscellaneous and Emergency Works	

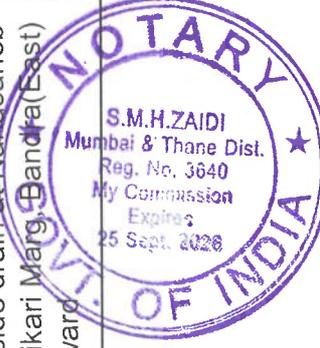


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32	Augmentation and Reconstruction of Sahakar Nagar Nalla on East side Tilak nagar Railway station in L ward.	Reconstruction of Nalla in RCC Sahakar Nagar Nalla - Length=500 m, Existing Size= 2.5 to 2.75 mtr, Proposed size= 3 to 3.8 mtr x 3.0 mtr.	FS Related Works	
33	Miscellaneous works at various location in beat no.109,110,111,113,114 and 121 in S ward through Central Agency	Improvement of 13 nos. of SWD / Culverts works in RCC at various location in beat no.109,110,111,113,114 and 121 in S ward	Miscellaneous and Emergency Works	
34	Miscellaneous works at various location in beat no.111,115,116,117,118,120 and 122 in S ward through Central Agency	Improvement of 16 nos. of SWD / Culverts in RCC at various locations in beat no.111,115,116,117,118,120 and 122 in S ward	Miscellaneous and Emergency Works	
35	Repairs / Reconstruction of Various Culvert in S ward	Repairs / Reconstruction of various Dilapidated / damaged culverts in S ward as suggested by Structural Consultant	Miscellaneous and Emergency Works	
36	SWD at Metro car shed proposed plot.	Construction of permanent SWD arrangement in RCC at proposed Metro carshed plot	Miscellaneous and Emergency Works	
37	Improvement / Reconstruction of Boundry Nalla one side wall at Janta Vikas Nagar, A.C.C. Road, & Boundry Nalla one side wall Behind Archana Hotel, LBS Check Naka, Mulund (W) in 'T' ward through Central Agency		Miscellaneous and Emergency Works	



38	Improvement / Reconstruction of 1) Nalla behind Apna Bazar & Culvert at Ambika Nagar & 2) Nalla between Sudhir Complex & Padmawati CHS at Dumping Road in 'T' Ward through Central Agency.		Miscellaneous and Emergency Works	
39	Miscellaneous Works in 'T' Ward through Central Agency.		Miscellaneous and Emergency Works	
40	Unforeseen Work for repairs of damaged / collapsed Major / Minor nalla walls / drains / culverts in T ward.		Miscellaneous and Emergency Works	
41	Training/Widening/ Deepening of Kannamwar Nagar nalla in S Ward	Construction of existing damaged / dilapidated / collapsed UCR nalla wall of 1000 mtr. length of nalla retaining wall to Touch pile RCC nalla retaining wall.	Miscellaneous and Emergency Works	
42	Unforeseen Work for repairs of damaged / collapsed Major / Minor nalla walls / drains / culverts in M/East catchments of Eastern Suburbs for year 2021-22.	Reconstruction of Collapsed nalla wall and culverts in emergency.	Miscellaneous and Emergency Works	
43	Miscellaneous works in CA 311 to 316 in 'M/East' Ward	Improvement of SWD / Culverts in RCC at various locations.	Miscellaneous and Emergency Works	Neelam Hotel
44	Reconstruction of dilapidated walls of subhash nagar nalla. in CA 311 in M /East Ward	Reconstruction of dilapidated/ collapsed UCR/CC Nalla wall in RCC	Miscellaneous and Emergency Works	
45	Augmentation of Indira Nagar Nalla and Road side drain at Nanasaheb Dharmadhikari Marg, Bandra (East) in H East ward	Augmentation of Nalla & Storm water drain at various locations Indira Nagar Nalla- Length=275 m, Existing Size=3.0x1.1 m, Proposed size=5.0x2.5 m	FS Related Works	societies at madhusudan kalekar marg,



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46	<p>Augmentation of Road side drain and culverts at 1)chetana college road 2)samaj mandir hall marg 3)vijay nagar marg 4)Harne guruji marg 5) J.L.Shirsekar marg Bandra(East) in H East ward</p>	<p>Proposed SWD work:- 1) Length =185 m , Existing Size=0.6x0.6 m , Proposed size=1.2x1.2 m  2)Length=4.5 m ,Existing Size=0.9x0.9 m ,Proposed size=1.2x1.2m  3)Length=85 m , Existing Size=0.6x0.5 m , Proposed size=0.9x1.2 m 4) Length=500 m , Existing Size=0.4x0.5 m , Proposed size=0.9x1.2 m 5) Length=250 m , Existing Size=0.6x0.6 m , Proposed size=1.2x1.2 m  6) Length=540 m , Existing Size=0.55x0.45 m , Proposed size=0.9x1.2 m 7) Length=110 m , Existing Size=0.60x0.55 m , Proposed size=0.9x1.2 m 8) Length=305 m , Existing Size=0.60x0.50 m , Proposed size=1.2x1.2 m</p>	<p>FS Related Works</p>	<p>Samaj mandir mag, Vijay nagar road, Harne guruji marg, J. L. Shirsekar marg</p>
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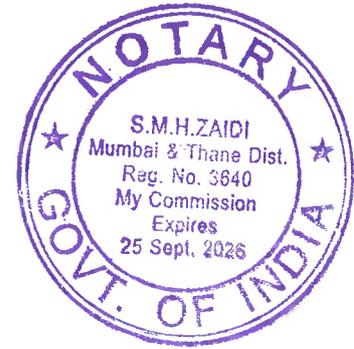


<p>47</p>	<p>Augmentation of Road side drain and culverts at 1)Aram Society road 2)Guru Narayan marg 3)Santacruz Bus Depot 4)Nehru Rd at WEH junction 5)kalina kurla road, Bandra(East) in H East ward</p>	<p>Augmentation of Storm water drain at various locations 1)Santacruz Bus Depot Area- Length=535 m, Existing Size= 0.65x0.70 m, Proposed size= 1.2x1.2 m 2) Guru Narayan Road- Length=310m , Existing Size- 0.6 m pipe drain, Proposed size- 0.9x1.2 m 3) Nehru Road- Length= 60 m, Proposed Size- 1.2x1.2 m 4)Aaram Society Road- Length=900 m, Existing Size- 0.45x0.50 m, Proposed size- 0.90x1.2 m 5)Kalina kurla road- Length= 660 m, Existing Size-1.2x1.0 m, Proposed size-1.5x1.2 m</p>	<p>FS Related Works</p> <p>aaram society road, santacruz bus depot, kalina Kurla road,</p>	
<p>48</p>	<p>1)Training &amp; construction of vakola nalla from Agripada slum to Airport outfall 2)Augmentation of Road side drain at WEH near airport cargo gate.</p>	<p>Reconstruction of Nalla in RCC &amp; Augmentation of Storm water drain 1)WEH service road drain- length=375 m, Existing size=0.9x0.9 m, Proposed size=1.5x3.5 2)Flush drain-length=130 m, Existing size=0.90x0.91 m, proposed size=1.5x3.5 m 3)vakola nalla- Length= 300m, Existing size=6.0x2.7 m, proposed size=7.0x5.5 m</p>	<p>FS Related Works</p> <p>WEH</p>	
<p>49</p>	<p>Training of Behrampada Nalla from A.K.Marg to Nandadeep Culvert in Bandra (East) in H/East ward</p>	<p>Reconstruction of Nalla in RCC Behrampada Nalla - Length=280 m, Existing Size=3.8x1.5 m, Proposed size=4.0x2.5 m</p>	<p>FS Related Works</p> <p>Behrampada slum</p>	



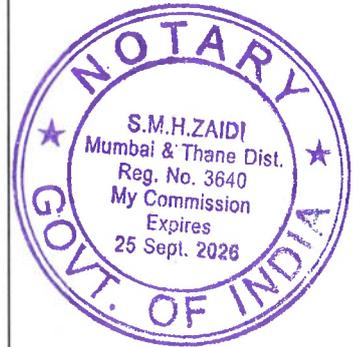
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50	<p>Construction of 1) RCC retaining wall at green street nalla, 2) Box drain at link road ext and Dattatray road, 3) Box drain at Talkiki road, 4) Box drain at South avenue road, 5) Box drain at Main avenue road and linking road at Santacruz (W) in H/west ward.</p>	<p>1)P &amp; T Nalla- Length -300 Mtr, Ext size- 2MtrX 2.5 Mtr, Proposed size- 3X2.5 Mtr(100Mtr), %X2.5 Mtr(200Mtr)  2) Dattatray road- 280 Mtr, Existing size- 0.9x0.6Mtr, Proposed size- 1.5X1.5Mtr,3)Link road Ext- 230Mtr, Ext size- 0.6X0.6Mtr, Proposed size- 1.2X1.2 Mtr,4) Juhu tara road- 75 Mtr, Ext size- 0.9X1.2 Mtr, Proposed size- 2.5X1.5 Mtr,5)South avenue road- 325 Mtr, Ext size- 4X1.5Mtr, Proposed size- 6.2X2.5 Mtr(140Mtr)2.5X1.5 Mtr(185Mtr) 6) Talmiki road-225 Mtr, proposed size- 1.5X1.5 Mtr(New construction) 7)Linking road- 450 Mtr, ext size- 0.6X0.6Mtr, proposed size- 1.5X2.5 Mtr, 8) Main avenue road- 635 Mtr, ext size- 1.8X1.5 Mtr, proposed size- 3X2.5 Mtr</p>	<p>FS Related Works</p>	<p>South avenue road, Main avenue road, Dattatray road, Linking road, Talmiki road</p>
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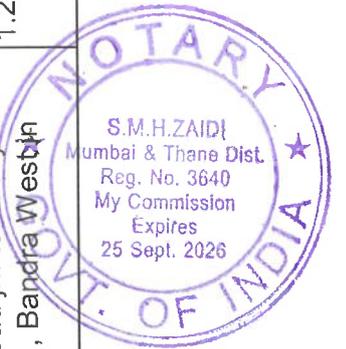
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51	Remodelling of RCC box drain at S B Patil road, 3rd X road, Church avenue road, 15th and 19th road & 1st Hasnabad lane in H/west ward.	1) S B Patil road- 700 Mtr, ext size- 0.6X0.6Mtr, proposed size- 1.2X1.2Mtr, 2) 3rd X Road- 45 Mtr, proposed size-0.9X0.9 Mtr (New construction,3) Church avenue X road- 85 Mtr- proposed size- 0.9X0.9 Mtr, 4) 1st Hasnabad lane- 225 Mtr, ext size- 0.6 Mtr pipe drain, proposed size- 0.9X0.9 Mtr, 5) 15th road- 275 Mtr, ext size- 0.6X0.6Mtr, proposed size- 0.9X0.9Mtr, 6) 19th road- 445 Mtr, ext size- 0.6X0.6Mtr, proposed size- 0.9X0.9Mtr Construction of water storage tank of 20,000 cum capacity to mitigate flooding	FS Related Works	S B Patil road, 15th road ,19th road, 1st Hasnabad lane
52	Construction of storage tank for flood redressal at Milan subway in H /west ward	Construction of water storage tank of 20,000 cum capacity to mitigate flooding	FS Related Works	Milan Subway
53	Augmentation of swd network to resolve flooding along Saint Paul Road in Bandra West in H West ward	length of drain- 2000 Mtr, ext size- 0.6 to 1.2 Mtr, proposed size- 1.5- 2.5 Mtr wide drain	FS Related Works	St Paul road
54	Construction of swd missing links at various locations in beat no 100 Bandra west in H west ward	1)S V Road - 150 Mtr, ext size- 0.6X0.75Mtr, proposed size- 1.2X1.2Mtr, 2) 32nd Road - 350Mtr, ext size-0.6X0.6Mtr, proposed size- 0.9X0.9 Mtr, 3) 4th Cross Road - 82Mtr.,proposed size (New drain)- 0.9X0.9Mtr	Miscellaneous and Emergency Works	



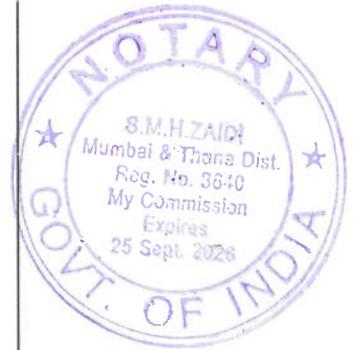
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55	Construction of SWD missing link / Conversion of pipe drain into Box drain at R K Patkar Road, St. Cyril Road, National Library Road, St. Dominic Road and St. Francis Road in beat no 101 Bandra west in H /West ward	1) R K Patkar Road - 1920 Mtr, ext size-0.6X0.6Mtr, proposed size-1.2X1.2Mtr, 2) St. Cyril Road - 485Mtr, ext size-0.6X0.6Mtr, proposed size-0.9X0.9 Mtr, 3) National Library Road - 360 Mtr., ext size-0.6X0.6Mtr, proposed size- 0.9X0.9* Mtr, 4) St.Francis Road- 165 Mtr, ext size- 0.6 Mtr pipe drain, proposed size- 0.9X0.9 Mtr, 5) St. Dominic Road - 510 Mtr, ext. size - .6X.6Mtr. drain, proposed size - .9x.9Mtr.	Miscellaneous and Emergency Works	
56	Construction and modification of UCR and dilapidated Culverts in RCC at Various locations in H West Ward	Reconstruction/ Augmentation of Culverts Length ----- Existing Width of Nalla ----- Proposed Width -----	Miscellaneous and Emergency Works	
57	Unforeseen Work for repairs of damaged / collapsed Major / Minor nalla walls / drains / culverts in H/ West Ward .	Reconstruction of Collapsed nalla wall and culverts in emergency.	Miscellaneous and Emergency Works	
58	Widening of balance portion of SNDT nalla at Santacruz (W) in H/west ward.	SNDT Nalla-800 Mtr, Ext width=5-10Mtr width, proposed width-12 Mtr	Miscellaneous and Emergency Works	
59	Conversion of pipe drain into RCC box drain and connectivity of SWD missing link on S V Road (W/S) from Turner Road jn. to Lucky hotel in ward no.101, Bandra West in H/West Ward	Length of drain- 720 Mtr, ext size- 0.6m dia. pipe drain, proposed size- 1.2x1.2Mtr wide drain	Miscellaneous and Emergency Works	



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<p>60</p>	<p>Construction of missing link of SWD network from SVP road to meghwadi Nalla, at Mahakali Gunfa road, at C G Road, at Datta Dagadamba marg and Improvement of SWD network at junction of Guru Goving singh marg and Jijamata Road, Azad Road in beat no. 74,76,77,79,80,81,83 in Andheri (E) in K/E ward</p>	<p>1)Datta Dagadamba Marg: Length- 260 m,Missing Link of 100 m,Ex size- 0.6 m x0.6 m, Proposed section- 1.2 m X 1.2m,  (2) Jijamata Road Length- 1060 m, Missing Link of 185 m,Ex size- 0.6 m x0.6 m,Proposed section- 1.2 m X 1.2m,  (3) Guru Govind Singh Road- Length- 275 m,Ex size- 0.45 m x0.45 m,Proposed section- 0.9 m X 0.9 m,  (4) C.G.Road-Length- 1045 m, Missing Link 365 m,, Ex size- 0.6 m x0.6 m, Proposed section- 1.2 m X 1.2m,  (5) K/E ward office-Length- 315 m, Missing Link 65 m,Ex size- 0.6 m x0.6 m,Proposed section- 0.9 m X 0.9 m,  (6) Mahakali caves road-Length- 765 m, Missing Link 545 m, Ex size- 0.45 m x0.45 m,Proposed section- 0.9 m X 0.9 m,  (7) Mamta Kutir SVP road-Length- 560 m, Missing Link 300 m,Ex size- 0.9 m x0.9 m,Proposed section- 1.8 m X 1.5 m</p>	<p>Miscellaneous and Emergency Works</p>
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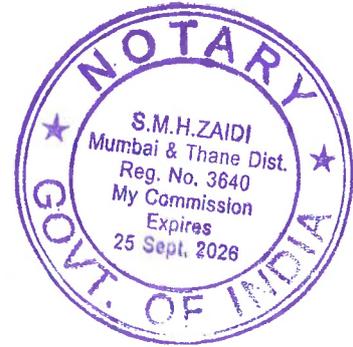
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<p>61</p>	<p>Construction of missing link of swd network at various locations in beat no. 77 in Jogeshwari (E) in K/E ward</p>	<p>1) Azad Nagar - Length- 210 m, ,Ex size- 0.45 m x0.45 m, Proposed section- 0.9 m X 0.9 m,                  (2) Sanjay Nagar Garden- Length- 300 m, ,Ex size- 0.45 m x0.45 m, Proposed section- 0.9 m X 0.9 m,                  (3) Shivsena Shakha Meghwadi- Length- 35 m, ,Ex size- 0.45 m x0.45 m, Proposed section- 0.9 m X 0.9,                  (4) SVP Road from Model Town to Takshila Society- Length- 320 m, ,Ex size- 0.45 m x0.45 m, Proposed section- 1.2 m X 1.2 m,                  (5) Dattatekdi JVLR Road Missing link- Length- 170 m, ,Ex size- 0.45 m x0.45 m, Proposed section- 1.2 m X 1.2 m</p>	<p>aneous and Emergency Works</p>
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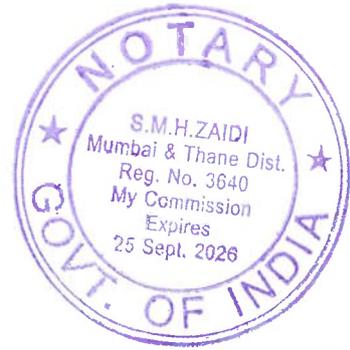
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62	<p>Remodelling &amp; construction of various Storm Water Drains in Vile Parle (East) in K/E ward. Tejpal Scheme Road No.2., Tejpal Scheme Road No.3., Tejpal Scheme Road No.4., Tejpal Scheme Road No.5., Thanawala Lane., Swami Samarath Marg (Hanuman cross Rd 2),. Opposite Subhas Niketan Bldg</p>	<p>1) Tejpal Scheme Road No.2- 580 Mtr, ext size-0.6X0.5mtr, proposed size-0.9X0.9Mtr,  2) Tejpal Scheme Road No.3- 500 Mtr, ext size- 0.6X0.5 mtr proposed size-0.9X0.9 Mtr  3) Tejpal Scheme Road No.4- 480 Mtr, ext size- 0.6X0.6 mtr,proposed size-0.9X0.9 Mtr,  4) Tejpal Scheme Road No.5- 490 Mtr, ext size- 0.6 Mtr pipe drain, proposed size- 0.9X0.9 Mtr,  5) Swami Samarath Marg- 255 Mtr 0.75X0.5Mtr, proposed size-0.9X0.9Mtr,  6)Thanawala Lane- 75 mtr, ext size-0.6X0.45 Mtr, proposed size-0.9X0.9Mtr.  7) Opposite Subhash Niketan bldg- 120, ext size- 0.6 X 0.5, proposed size-0.9X0.9 Mtr.</p>	Miscellaneous and Emergency Works	
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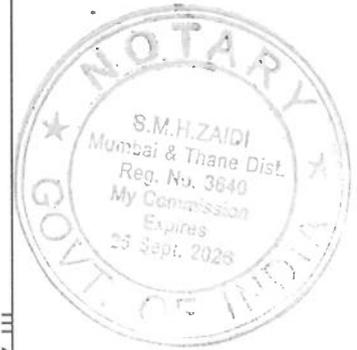
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	Miscellaneous and Emergency Works
<p>Remodelling &amp; construction of various Storm Water Drains in Vile Parle (East) in K/E ward 1. Azad Road from Nehru Road junction to Kurla Garage-Chokhamela Nalla &amp; Madarasa to Milan Subway</p> <p>1. Azad Road from Nehru Road junction to Kurla Garage-Chokhamela Nalla &amp; Madarasa to Milan Subway 0.6x0.6 mtr existing drain missing ling 0.6x0.6 mtr , proposed drain- 0.9X 0.9 mtr</p> <p>2. Janabai Road upto Utkarsh Mandal- 285 mtr existing drain- 0.6 X0.6mtr, proposed drain 0.9X1.2 mtr</p> <p>3. Dixit Road from Gujarat society Road to Vartak Road- 120 mtr, existing- 0.6 X0.6 mtr, proposed- 0.9X0.9 mtr</p>	<p>1. Azad Road from Nehru Road junction to Kurla Garage-Chokhamela Nalla &amp; Madarasa to Milan Subway- 926 mtr existing drain missing ling 0.6x0.6 mtr , proposed drain- 0.9X 0.9 mtr</p> <p>2. Janabai Road upto Utkarsh Mandal- 285 mtr existing drain- 0.6 X0.6mtr, proposed drain 0.9X1.2 mtr</p> <p>3. Dixit Road from Gujarat society Road to Vartak Road- 120 mtr, existing- 0.6 X0.6 mtr, proposed- 0.9X0.9 mtr</p>
63	<p>Remodelling &amp; construction of various Storm Water Drains in Vile Parle (East) in K/E ward 1. Azad Road from Nehru Road junction to Kurla Garage-Chokhamela Nalla &amp; Madarasa to Milan Subway</p> <p>1. Azad Road from Nehru Road junction to Kurla Garage-Chokhamela Nalla &amp; Madarasa to Milan Subway</p> <p>2. Janabai Road upto Utkarsh Mandal</p> <p>3. Dixit Road from Gujarat society Road to Vartak Road</p>



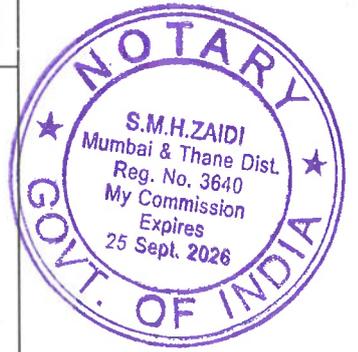
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64	<p>Reconstruction/augmentation of Drain in K/E ward at</p> <ol style="list-style-type: none"> <li>1) Natwar nagar no 1</li> <li>2) Shree naan Sharda Marg</li> <li>3) Jogshaarin station road culvert</li> <li>4) in front of Andheri court</li> <li>5) Rameshwar mandir road</li> <li>6) Nawalkar Wadi Market Culvert</li> <li>7) Shree Vinayak Bldg at Service Road</li> </ol>	<ol style="list-style-type: none"> <li>1) Natwar nagar no 1 Existing - No drain, Proposed drain -0.9m x 1.2mtr (d) , Length - 285mtr</li> <li>2) Shree Naan Sharda Marg - Existing - 0.45m x 0.45m, Proposed drain -0.9m x 1.2mtr (d) , Length - 700mtr</li> <li>3) Jogshaarin station road culvert Existing - No drain, Proposed drain - 0.9m x 1.2mtr (d) , Length -150 mtr</li> <li>4) in front of Andheri court Existing - No drain, Proposed drain -0.9m x 1.2mtr (d) , Length - 235mtr</li> <li>5) Rameshwar mandir road Existing - No drain, Proposed drain -0.9m x 1.2mtr (d) , Length -690mtr</li> <li>6) Nawalkar Wadi Market Culvert Proposed Culvert 1.2m x 1.5mtr, Length - 10mtr</li> <li>7) Shree Vinayak Bldg at Service Road Existing - UCR Nalla Proposed drain -4mtr x 6m (d) , Length - 25mtr</li> </ol>	Miscellaneous and Emergency Works
65	Reconstruction of collapsed major nalla wall (unforseen work) in K/E	Reconstruction of collaps nalla wall.	Miscellaneous and Emergency Works



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66	Remodeling of drain at MIDC Road no. 8,9 , B'X' Road, Marol Maroshi 'X'road and Construction of Krishnanagar nalla at Church Road and Culvert at MIAL parking premises and Indian Oil nalla at Sahar police Station, in K/E Ward	<p>1) MIDC Road No. 8,9 and 11.</p> <p>2) Krishnanagar Nalla work - La grace Society &amp; Oristo Apartment Church Road</p> <p>3) Krishnanagar nalla Culvert - Navpada Slum premises.</p> <p>4) Sahar Police Station.</p>	FS Related Works	Andheri Subway
67	Proposed Diversion of Mogra Nalla from Downstream of Andheri Subway in K/West Ward from S V Road upto Bhardawadi Culvert in K/West Ward	<p>1) MIDC Road No. 8, 9, B 'X' Road - Existing 600mm dia pipe drain. Proposed drain size - 0.9m x 1.5m. Length - 1400mtr.</p> <p>2) Marol Maroshi 'X' Road- Existing missing link, Proposed size - 0.9m x 0.9m, Length - 105mtr</p> <p>3) Krishnanagar nagar nalla - Existing UCR Wall Collapsed, Proposed widening of 5mtr, length 165mtr x 5m(d)</p> <p>4) Krishnanagar nalla Culvert - Existing 900mm: dia pipe drain culvert, proposed width - 12mtr x 5.2mtr (d)</p> <p>5) Sahar Police Station - Existing 1.5mtr wide minor nalla , No connectivity to Cargo Complex nalla, Dewatering pump installed in police station , Proposed drain width - 1.5mtr x 1.5mtr, Length - 150mtr</p>	FS Related Works	Andheri Subway



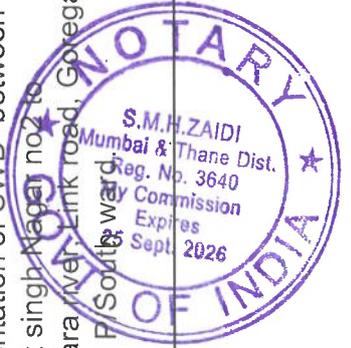
68	Proposed Diversion/Loop of Mogra Nalla from West side of S V Road (from Node 80C) –Bhardawadi Culvert –along J P Road-D N Nagar Metro Station upto Link Road Culvert of Mogra Nalla in K/West Ward.	Proposed Diversion/Loop of Mogra Nalla from West side of S V Road (from Node 80C) –Bhardawadi Culvert –along J P Road-D N Nagar Metro Station upto Link Road Culvert of Mogra Nalla in K/West Ward.	FS Related Works	Andheri Subway
69	Proposed Diversion/Loop of Mogra Nalla from Veera Desai Road Culvert –to Courtyard Junction – RTO Junction upto Citi Mall along Link Road Mogra Nalla in K/West Ward.	Proposed Diversion/Loop of Mogra Nalla from Veera Desai Road Culvert –to Courtyard Junction – RTO Junction upto Citi Mall along Link Road Mogra Nalla in K/West Ward.	FS Related Works	Veera Desai road
70	Training and Widening of Mogra nalla from S.V.Road to Bhardawadi Road at Andheri (West) in K/West Ward	Training and Widening of Mogra nalla from S.V.Road to Bhardawadi Road at Andheri (West) in K/West Ward	FS Related Works	Andheri Subway
71	Improvement and Construction of various SWD Works to relieve flooding in Malad (E) in P/N Ward.	Details of SWD Work:- 1) Length of Box Drain=970 Mtrs 2) Existing Width = 0.60Mtrs -0.90 Mtrs Proposed Width 0.9 Mtrs to 1.20 Mtrs 3) Length of Culverts = 45 Mtrs	FS Related Works	1) Chaurasia Marg 2) Patkar Wadi ( Malad East) 3) Goraswadi ( Malad West)
72	Improvement and Construction of Various Miscellaneous SWD Works at various locations in P/North Ward.	Proposed SWD & Culverts networks. 1) Length of Box Drain = 3170 Mt. ( Proposed Size of Box Drain :- 1.20 mt. x 1.50 mt. to 1.80 mt.) 2) Length of Culverts = 177 Mt. ( Proposed size of Culvert :- 1.50 mt. x 1.80 mt.)	FS Related Works	Somwar Bazar, Pathare Wadi



73	Improvement and Construction of Essential SWD, Culverts etc. at various locations in P/North Ward.	Proposed SWD & Culverts work. 1) Length of Box Drain = 3575 Mt. (Proposed Size of Box Drain :- 1.20 mt. x 1.50 mt. to 1.80 mt.) 2) Length of Culvert = 80 Mt. (Proposed Size of Culvert :- 1.50 mt. x 1.80 mt.)	FS Related Works	Retreat Hotel & P-3 Studio (Pathare wadi)
74	Training & widening of Navy Nagar Nalla along with Improvement of SWD network at Somwar Bazar & near Choski Municipal Hospital, Marve Road to relieve flooding at Malad(W) in P/North Ward.	Proposed SWD details:- 1) Length of Nalla = 800.00 Mt. (Proposed Width of Nalla :- 1.50 mt. to 1.80 mt.) 2) Length of Box Drain = 2000 Mt. (Proposed Size of Box Drain :- 1.20 mt. to 1.50 mt. x 1.80 mt. to 2.10 mt.) 3) Length of Culverts = 96 Mt. (Proposed Size of Culvert :- 1.50 mt. x 2.10 mt.)	FS Related Works	Choski Municipal Hospital, Navy Nagar Road, Devashish Bldg. & Somwar Bazar P.G. Road.
75	Improvement & Construction of SWD, Culverts etc. at various locations in Janakalyan Nagar, Bafira Nagar at Malad (W) in P/Nward.	Proposed SWD & Culverts networks. 1) Length of Box Drain = 3285 Mt. (Proposed Size of Box Drain :- 1.20 mt. to 2.50 mt. x 1.80 mt. to 2.50 mt.) 2) Length of Culverts = 258 Mt. (Proposed Size of Culvert :- 1.50mt. x 2.10 mt.)	FS Related Works	Janakalyan Nagar & Bafira Nagar.
76	Comprehensive repair works for Various SWD Nallas in Malad P/North ward	Repairs / Reconstruction of Collapsed Nalla walls 1) Length of various Collapsed Nalla Works= 190 Mtrs 2) Length of IT Park Nalla For Minor Repairs =670 Mtrs	Miscellaneous and Emergency Works	

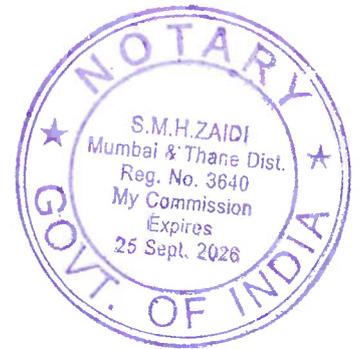


77	Construction of Various Nalla From Malad Hill Reservoir Outfalls to Kurar Nalla in Malad East P/North ward	Proposed Nalla details:- 1) Length of Nalla Works = 1670 Mtrs 2) Existing SWD Network Not Available 3) Proposed Size Various Nallas = 3.0 Mtrs X 2.0 Mtrs	Miscellaneous and Emergency Works	
78	Widening & Training of Vainai Nalla & Poisar Nalla upto Marve Bridge at Malad (West) in P/North Ward.	Training and Widening of untrained Nalla in R.C.C.as per Planning Cell Remarks. 1) Length of Nalla = 1920.00 Mt. ( Proposed widening width of Nalla 31.14 mt. to 55.00 mt.)	Miscellaneous and Emergency Works	
79	Construction of Culverts at Various locations in P/North Ward.	Proposed 46 Nos. culverts Details:- 1) Length of Culvert = 1143.00Mt. ( Proposed Size of Culvert :- 1.80 mt. to 2.70 mt. x 2.10 mt. to 2.40 mt.)	Miscellaneous and Emergency Works	
80	A) Training and Widening of Shastri Nagar Nalla from Siddharth Nagar road No.5 i.e. from police ground to Vibgyour School, Link road at Goregaon west in P/South ward.( B) Augmentation of SWD at MG road ( extension) from link road to creek , Goregaon west in P/South ward.(C) Augmentation of SWD between Bhagat singh Nagar no.4 to Oshiwara river- Link road, Goregaon west in P/ South ward	Proposed SWD (A) (1) Length of Shastri Nagar Nalla = 500 mtr. (2) Existing width = 6 mtr. (3) Propose width = 9 mtr. (As per Brimstowad -II master plan ) (B/C) (1) Length of SWD = 650 mtr/750 mtr (2) Length of Culvert =50 mtr/80 mtr (3) Existing size of SWD = 0.6 mtr x 1.20 mtr/1.0 mtr x 1.2 mtr (4) Propose size of SWD = 1.5 mtr x 2.2 mtr/ 1.2 mtr x 1.8 mtr (5) Existing size of Culvert = 0.9 mtr x 1.5 mtr / 1.0 mtr x 1.0 mtr (6) Propose size of Culvert = 1.5 mtr x 2.0 mtr / 1.5 mtr x 1.8 mtr.	Miscellaneous and Emergency Works  FS Related Works	Shastri Nagar road no.1 ,2, Opp. Siddharth Hospital, M.G. Road and Link road junction, Bhagat singh no.1, Goregaon west



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81	Improvement and Construction of Essential SWD works at various locations in P/South ward	Augmentation of Storm water drain /Culverts at various locations.(1) Length of SWD = 925 mtr. (2) Length of Culvert = 175 mtr. (3) Existing size of SWD = 0.6 m x 0.6 m, 0.6 m x 0.9 m, 0.6 m x 1.0 m. (4) Propose size of SWD = 1.5 m x 1.5 m, 1.2 m x 1.0 m, 1.2 m x 1.2 m. (5) Existing size of Culvert = 1.2 m x 1.2 m, 1.5 m x 1.8 m. (6) Propose size of Culvert = 1.8 m x 1.5 m, 2.5 m x 2.0 m	FS Related Works	Squatters Colony, Govind Nagar, Goregaon (E)
82	Proposed Widening and Training of Santosh Nagar Nalla from Filmcity road to walbhat river, Goregaon east in P/South ward	RCC Nalla:- Length ----- Mtr Existing Width -----Mtr Proposed Width ----- Mtr	Miscellaneous and Emergency Works	
83	Proposed Improvement of various culverts in Goregaon in P/ South ward.	No of Culverts ----- Length = ----- Mtr Existing Size ----- Proposed Size -----	Miscellaneous and Emergency Works	
84	Repair and Reconstruction of Bimbisar Nagar Nalla in MHADA Colony from SRPF compound to Western Express Highway at Goregaon east in P/South ward.	Reconstruction of Nalla in RCC Length ----- Existing Width of Nalla ----- Proposed Width -----	Miscellaneous and Emergency Works	



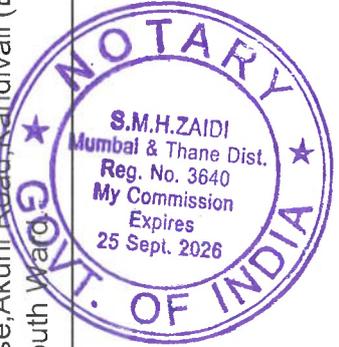
85	Improvement and Construction of Miscellaneous SWD works at various locations in P/south ward.	Augmentation of SWD/Culverts at Various Locations. Augmentation of Storm water drain /Culverts at various locations. (1) Length of SWD = 2875 mtr. (2) Length of Culvert = 100 mtr. (3) Existing size of SWD = 0.6 m x 0.6 m, 0.6 m x 0.9 m, 0.6 m x 1.2 m. (4) Propose size of SWD = 0.9 m x 1.2 m, 1.2 m x 1.5 m, 1.2 m x 1.0 m, 1.2 m x 1.2 m. (5) Existing size of Culvert = 0.9 m x 1.0 m, 1.0 m x 1.0 m, 1.2 m x 1.0 m. (6) Propose size of Culvert = 1.5 m x 1.2 m, 1.5 m x 1.5 m.	Miscellaneous and Emergency Works	
86	Augmentation of SWD from Govind nagar Road to Chandavarkar nalla to relieve flooding at Govind Nagar in Borivali (West) in R/Central Ward.	Construction of missing links/ Improvement of SWD Network. 1) Total proposed Length of SWD = 225 mtr. (2) Existing width = 0.6 m to 0.9 m mtr. (3) Propose width = 0.9 mtr. to 1.20 m (4) Nos of culverts = 8 nos. (5) Existing width of culvert = 1.5 m to 1.00 m (6) Proposed width of Culvert = 1.2 m to 2.0 m.	FS Related Works	Govind nagar, Borivali (West)
87	Training & Construction of Retaining Wall at u/s side of Hiranandani Bridge at Dahisar River and the balance portion of NL Complex nalla in R/North Ward by Central Agency	Construction of retaining walls at Dahisar River (150 mtrs length) and NL Complex nalls (200 mtrs length)	Miscellaneous and Emergency Works	



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88	Lumpsum provision for attending unforeseen works i.e. collapsed nalla, repairs of nalla. Construction/ remodeling of culverts etc in RN Ward	Reconstruction of Collapsed nalla wall and culverts in emergency.	Miscellaneous and Emergency Works	
89	Training and Construction of Major Nalla in Encroached portion of Kajupada Nalla at Desai Chaw&Koknipada Nalla at Savitri Niwas in R/North Ward by Central Agency.	Augmentation of Nallas at the encroached stretches of Desai Chawl and Savitri niwas (Length -315, Width - 5.0 mtrs)	Miscellaneous and Emergency Works	
90	Construction & Modification of UCR and Dilapidated Culverts in RCC in R/North Ward by Central Agency.	Improvement/ augmentation of various culverts (25 no.s, Length - 348 mtrs, Width - 1.5mtrs to 4.0 mtrs)	Miscellaneous and Emergency Works	
91	Training & Construction of Retaining Wall of Ambawadi Minor Nalla near Manav Kalyan Junction, S.V Road & Construction of Missing Link of SWD at Laxman Mhatre road & Shiv Vallabh Main Road in R/North Ward by Central Agency	Construction of missing links/ augmentation of nallas (Length - 870 mtrs)	Miscellaneous and Emergency Works	
92	Augmentation/Modification of Culvert & Road Side Drain at Akurli Road & Akurli Cross Road No.3 to abate Flooding at Thakur House,Akurli Road,Kandivali (E) in R/South Ward	Length of Drain- 454m, Culvert Length -97m, Existing size of Drain- 0.9x0.9m & 0.9x1.2m. and Culvert- 0.9m Dia & 0.9x0.9m.. <b>Proposed Size of Drain-1.2 x 1.2m &amp; 1.2 x 1.8m.and Culvert-3.5 x 2.5 m &amp; 2.0 x 2.0m</b>	FS Related Works	Thakur House,Akurli road



93	Augmentation/Modification of Road Side Drain at various locations in Charkop, Kandivali (W)	RSC 17,21 - 400 m SWD existing 0.90	FS Related Works	1. Road no R.S.C. 21 and 17 2. A.T.S. office Charkop 3. Noble Chemist - Dr. B.A. Road 4. Mangalmurti Hospital 5. Road no R.S.C. 19
94	Augmentation of roadside SWD at Meena Sutar Marg, behind R South ward office, Kandivali (W)	Total Length 1000 m. Existing SWD 0.9	FS Related Works	Meena Sutar Road behind R/S Ward office bulding & Bohra Road
95	Augmentation of SWD on S.V. Road near Kandivali Police station, Shatabdi hospital and fateh baug road junction at Kandivali west in R/S ward	Total Length 1600 m. Existing SWD 0.9	FS Related Works	Kandivali police station, Fateh baug road junction
96	Lumpsum provision for attending unforeseen works i.e. collapsed nalla, repairs of nalla. Construction/remodeling of culverts etc in RS Ward	Reconstruction of Collapsed nalla wall and culverts in emergency.	Miscellaneous and Emergency Works	
97	Augmentation of SWD on Bandar Pakhadi road	Total Length 2000 m. Existing SWD 0.90 x 0.90 proposed 1.20 x 1.20		
98	Proposed augmentation of SWD network at road no. 26(Sakkarpanyachat) RA Kidwai Road and Wadala road railway station west side in F/N ward.	Total Length - 1700 m Existing 300, 600 & 900 mm NP3 Pipe and 1.2m * 1.5 m Box Drain Proposed 600,1400 & 1800 mm NP3 pipe & 3m X 2m RCC Box Drain	FS Related Works	Road no. 26, sakkarpanyachat road RA Kidwai Marg
99	Proposed augmentation & new construction of SWD network at L.M Nadkarni marg, Wadala road railway station East side in MhPT area in F/N ward.	Total Length - 1700 m Existing Dhapa Drain Proposed 1400 mm NP3 pipe & 2m X 2m RCC Box Drain and 3m X 1.8m RCC Box Drain	FS Related Works	Road no. 26, sakkarpanyachat road RA Kidwai Marg



100	Construction of dilapidated / partially collapsed nalla retaining wall of Crompton nalla from JVLR to Eastern Express Highway, Vikroli (East) of C.A. 306 in S ward, Zone-VI of E.S.	Total Length of nalla retaining wall to be constructed - 1100 mtr. in secant piling method. depth of pile - 13.50 mtr.	Miscellaneous and Emergency Works	
101	Miscellaneous SWD / culvert works at various locations in S ward	<p>For Phillips D'souza nalla - Total Length to be reconstructed - 35 mtr, height of wall to be constructed - 2.5 mtr.</p> <p>For Vaibhav Nagar nalla- 32.0 mtr length and Box size of 3.0mtr X 2.0 mtr.</p> <p>For Hanuman Nagar nalla of length 40 mtr open RCC drain of size 1.5 mtr X 1.5 mtr.</p> <p>For Vaibhav Nagar nalla near Ganesh Krupa Bldg., - Total length of RCC nalla retaining wall to be constructed - 90 mtr. and 3.5 mtr. depth.</p> <p>For Vaibhav Nagar nalla near Shivneri Bldg. - Total length of RCC box drain to be constructed - 120 mtr. and 2.0 mtr. width depth. and 2.5 mtr. depth</p>	Miscellaneous and Emergency Works	



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**List Of Notable Works Undertaken by SWD Department in Last 5 Years For Flood Control And Management**

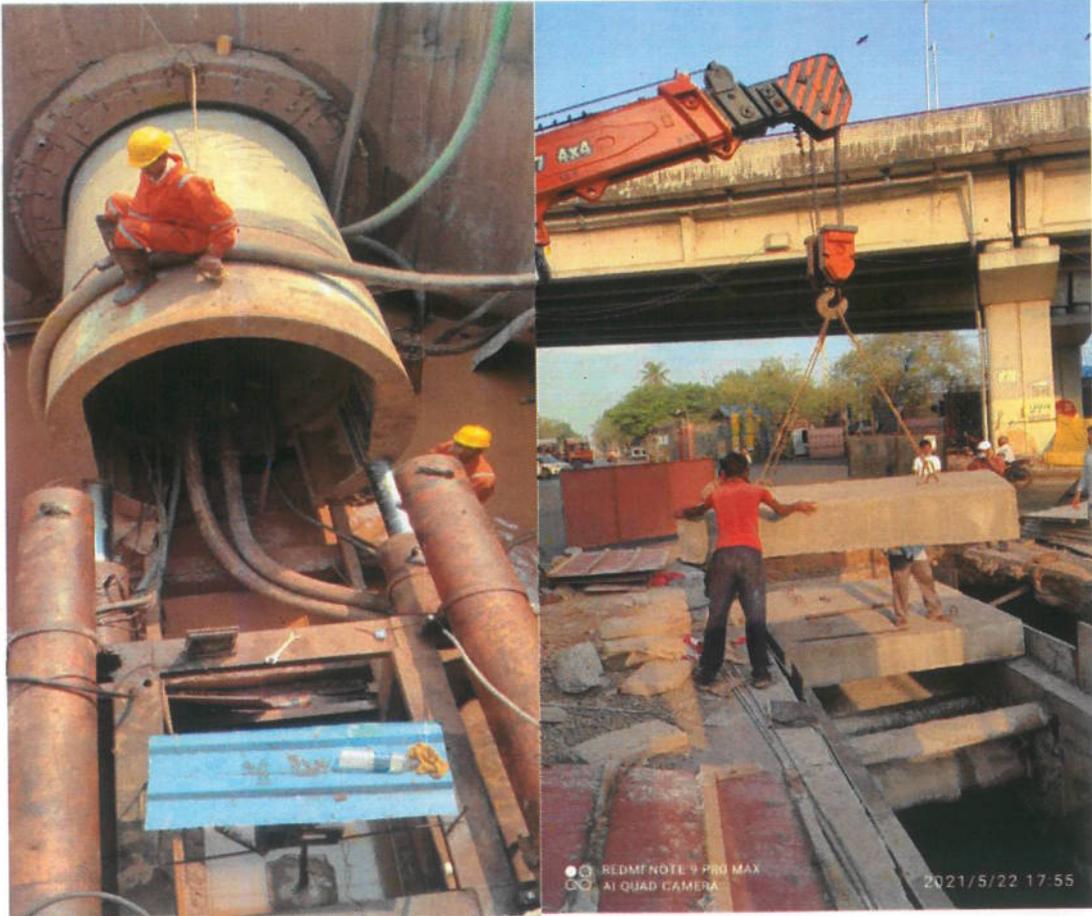
**1) Name of Work – Mini Pumping Station at Gandhi Market**



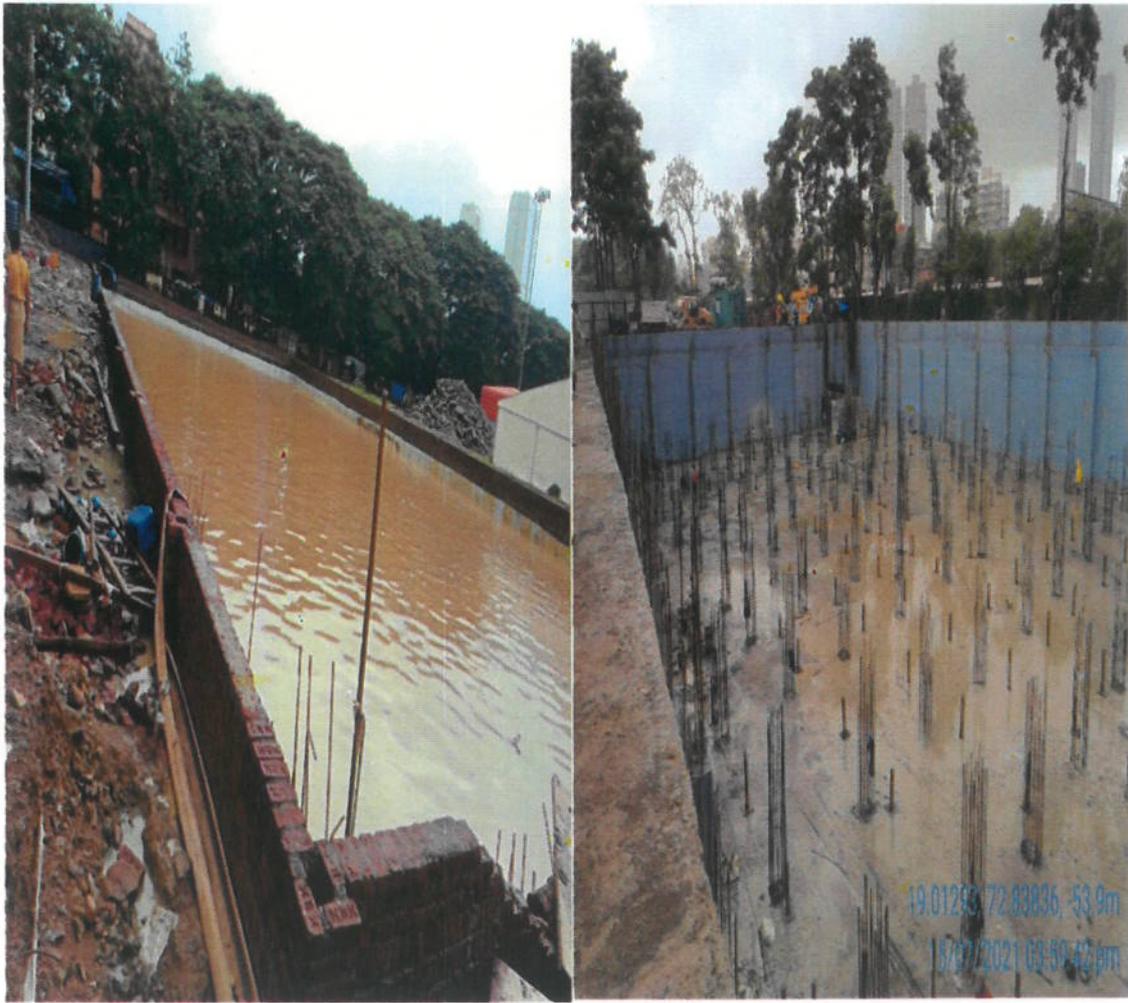
NOTARY  
S.M.H.ZAIDI  
Mumbai & Thane Dist.  
Reg. No. 3640  
My Commission  
Expires  
25 Sept. 2026  
GOVT. OF INDIA

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2) Name of Work – Laying of 1800 mm dia line by Micro tunnelling and construction of RCC Box Drain at Sandhurst Road Station and P D'mello Road



3) Name of Work – Construction of Underground Holding Ponds at St. Xavier’s Ground and Pramod Mahajan Udyan to abate flooding at Hindmata.



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**4) Name of Work – Desilting of Mithi River by using Silt Pusher Machine**



5) Name of Work - Hindmata Cinema, Madkebuwa Chowk, Chivda Street Round tube of diameter Rainwater drainage work.

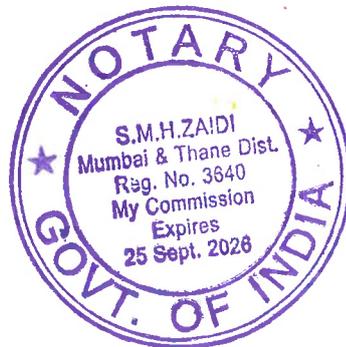
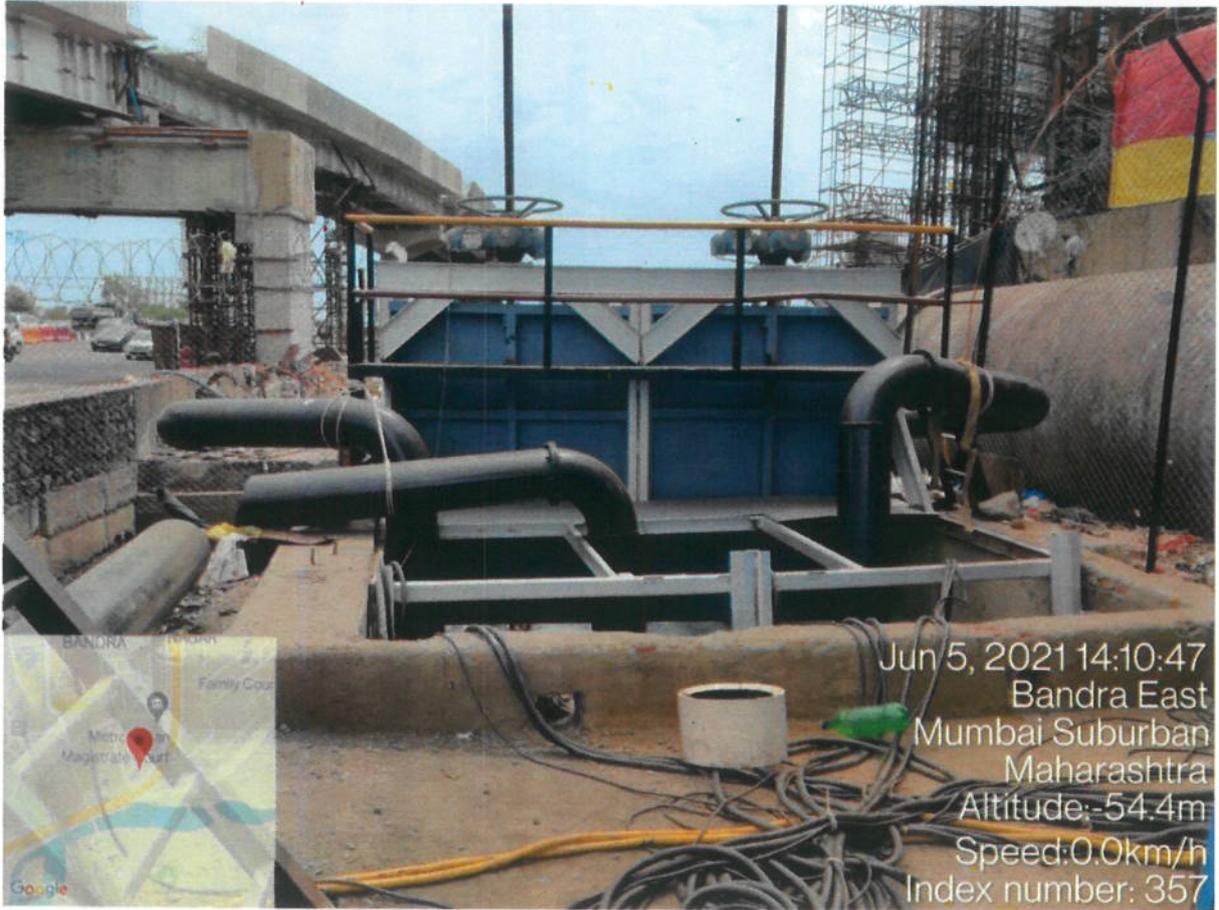


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6) Name of Work – Laying of 1800 mm dia SWD line at Kherwadi Kalanagar Junction to abate the flooding on Western Express Highway.

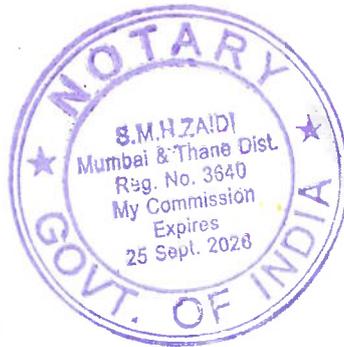


7) Name of Work – Construction of Mini Pumping Station and installation of flood gate to abate flooding at Kalanagar



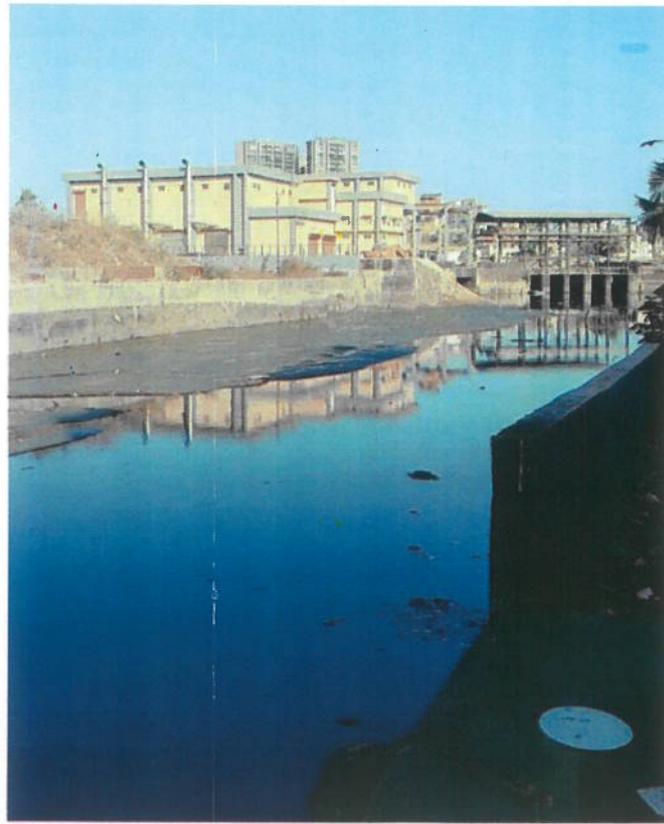
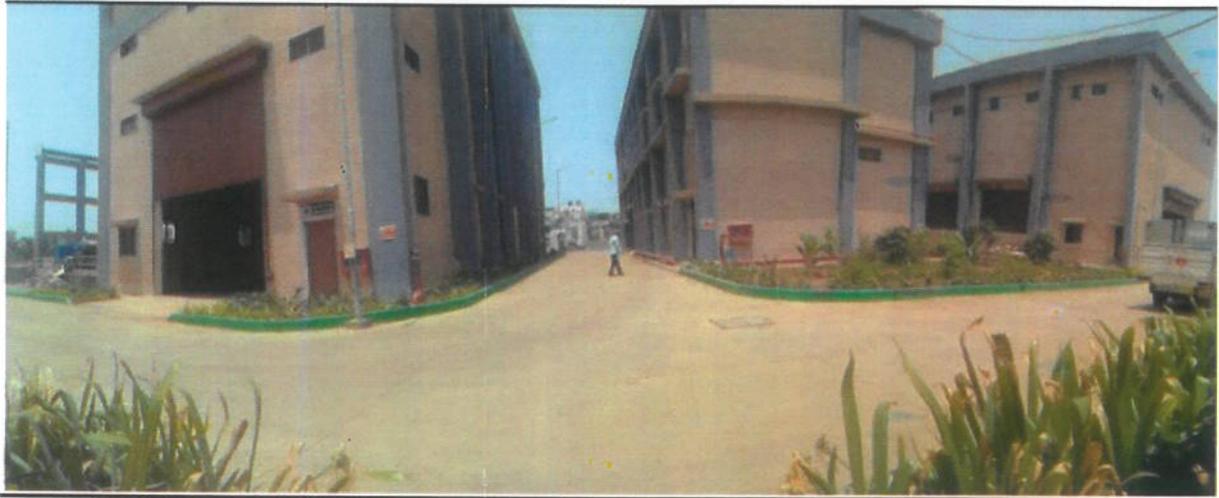
188

8) Name of Work – Construction of RCC Box Drain of 4 m X 3 m size along ES Patanwala Marg to abate the flooding at Byculla East area.



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9) Name of Work – Construction of Gazdharbund storm water pumping station



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<b>ANNEXURE V</b>			
<b>Record of Peer Review Committee meetings</b>			
<b>Sr. No.</b>	<b>Date of meeting</b>	<b>Peer Review Committee</b>	<b>Details of proceedings</b>
1	13.02.2021	Meeting of PRC - 1, PRC - 2 & PRC - 3	Presentation by department for all WwTF Projects
2	17.03.2021	Meeting of PRC - 1, PRC - 2 & PRC - 3	Presentation by department for all WwTF Projects
3	20.03.2021	Meeting of PRC - 1, PRC - 2 & PRC - 3	Repeated for members who could not attend meeting on 17.03.2021
4	29.04.2021	Meeting of PRC - 1, PRC - 2 & PRC - 3	Presentation by department for Bhandup, Versova & Bandra WwTF
5	07.05.2021	Meeting of PRC - 3	Presentation by the lowest bidder for Bandra WwTF
6	12.05.2021	Meeting of PRC - 1 & PRC - 2	Presentation by the lowest bidder for Bhandup WwTF & Versova WwTF
7	25.05.2021	Meeting of PRC - 1, PRC - 2 & PRC - 3	Meeting for Bhandup, Versova & Bandra WwTF
8	01.07.2021	Meeting of PRC - 1	Presentation by department for Ghatkopar WwTF
9	02.07.2021	Meeting of PRC - 2	Presentation by department for Dharavi WwTF
10	04.07.2021	Meeting of PRC - 1	Presentation by department for Ghatkopar WwTF (Contents of meeting of PRC - 1 dated 01.07.2021 were repeated for the PRC members who could not attend the meeting on 01.07.2021)
11	07.07.2021	Meeting of PRC - 2	Presentation by the lowest bidder for Dharavi WwTF
12	09.07.2021	Meeting of PRC - 1	Presentation by the lowest bidder for Ghatkopar WwTF
13	13.07.2021	Meeting of PRC - 1	Meeting for Ghatkopar WwTF
14	14.07.2021	Meeting of PRC - 2	Meeting for Dharavi WwTF
15	22.07.2021	Meeting of PRC - 3	Presentation by department for Worli WwTF
16	23.07.2021	Meeting of PRC - 3	Presentation by the lowest bidder for Worli WwTF
17	31.07.2021	Meeting of PRC - 3	Discussion by department and consultant with PRC on Worli WwTF
18	18.08.2021	Meeting of PRC - 3	Meeting for Worli WwTF
19	28.10.2021	Meeting of PRC - 1	Meeting for Bhandup & Ghatkopar WwTF
20	28.10.2021	Meeting of PRC - 2	Meeting for Versova WwTF
21	28.10.2021	Meeting of PRC - 3	Meeting for Worli & Bandra WwTF



## ANNEXURE - VI

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Summary of Test reports of sewage parameters tested at MCGM's NABL accredited Laboratory

Parameters	Standards prescribed by board as per Consent upto 31.12.2020	Colaba	LGP Outfall	Bandra Outfall	Versova	Malad	Charkop	Ghatkopar	Bhandup
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## Reports for month of January 2021

PH	6.5 to 9	7.24	8.09	8.02	7.23	7.13	7.56	7.03	7.44
Oil & grease (mg/l)	Not to exceed 50	BDL	NA	NA	BDL	20	BDL	BDL	BDL
BOD(mg/l)	Not to exceed 50	<5	1.2	1.95	16	140	<5	36	20
TSS(mg/l)	Not to exceed 50	<5	NA	NA	5	154	<5	20	17
COD (mg/l)	N.P.	ND	NA	NA	73	340	<10	133	87
Turbidity(NTU)	Not to exceed 30	3.6	2.32	5.14	NA	NA	NA	NA	NA
DO(mg/l)	Not less than 4	6	5.7	5.5	NA	NA	NA	NA	NA

## Reports for month of February 2021

PH	6.5 to 9	7.44	8.21	8.28	7.2	7.04	7.53	7.06	7.94
Oil & grease (mg/l)	Not to exceed 50	BDL	NA	NA	BDL	19	BDL	BDL	BDL
BOD(mg/l)	Not to exceed 50	<5	2.65	2.15	36	145	25	26	6
TSS(mg/l)	Not to exceed 50	<5	NA	NA	14	212	12	8	14
COD (mg/l)	N.P.	ND	NA	NA	106	346	<10	74	ND
Turbidity(NTU)	Not to exceed 30	2.56	1.94	1.1	NA	NA	NA	NA	NA
DO(mg/l)	Not less than 4	6.6	6.5	7.5	NA	NA	NA	NA	NA

## Reports for month of March 2021

PH	6.5 to 9	7.38	8.32	8.26	7.47	7.52	7.75	7.31	8.48
Oil & grease (mg/l)	Not to exceed 50	BDL	NA	NA	BDL	20	BDL	BDL	BDL
BOD(mg/l)	Not to exceed 50	<5	2.2	2.35	18	103	<5	39	20
TSS(mg/l)	Not to exceed 50	<5	NA	NA	18	201	<5	39	49
COD (mg/l)	N.P.	ND	NA	NA	61	318	22	56	ND
Turbidity(NTU)	Not to exceed 30	1.92	1.96	1.58	NA	NA	NA	NA	NA
DO(mg/l)	Not less than 4	6.1	8	6.7	NA	NA	NA	NA	NA

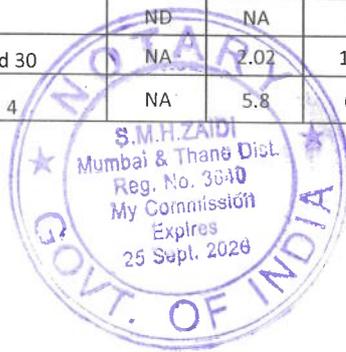
## Reports for month of April 2021

PH	6.5 to 9	7.63	7.75	7.93	7.55	7.35	7.99	7.25	8.18
Oil & grease (mg/l)	Not to exceed 50	BDL	NA	NA	BDL	25	BDL	BDL	BDL
BOD(mg/l)	Not to exceed 50	<5	2.1	2.05	50	175	<5	46	27
TSS(mg/l)	Not to exceed 50	<5	NA	NA	57	243	<5	49	39
COD (mg/l)	N.P.	<10	NA	NA	120	321	<10	110	ND
Turbidity(NTU)	Not to exceed 30	NA	2.91	3.31	NA	NA	NA	NA	NA
DO(mg/l)	Not less than 4	NA	7.4	5.3	NA	NA	NA	NA	NA

## Reports for month of May 2021

PH	6.5 to 9	7.39	8.32	8.32	7.83	7.63	7.45	7.63	7.83
Oil & grease (mg/l)	Not to exceed 50	BDL	NA	NA	BDL	18	BDL	BDL	BDL
BOD(mg/l)	Not to exceed 50	<5	2.8	2.35	31	113	<5	19	15
TSS(mg/l)	Not to exceed 50	<5	NA	NA	24	213	<5	17	39
COD (mg/l)	N.P.	ND	NA	NA	83	301	<10	56	45
Turbidity(NTU)	Not to exceed 30	NA	2.02	1.91	NA	NA	NA	NA	NA
DO(mg/l)	Not less than 4	NA	5.8	6.1	NA	NA	NA	NA	NA

N.P.: Not prescribed NA:Not Applicable



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## Summary of Test reports of sewage parameters tested at MCGM's NABL accredited Laboratory

Parameters	Standards prescribed by board as per Consent upto 31.12.2020	Colaba	LGP Outfall	Bandra Outfall	Versova	Malad	Charkop	Ghatkopar	Bhandup
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## Reports for month of June 2021

PH	6.5 to 9	7.91			7.99	7.48	7.23	7.37	8.05
Oil & grease (mg/l)	Not to exceed 50	BDL			BDL	12	BDL	BDL	BDL
BOD(mg/l)	Not to exceed 50	<5			11	50	<5	21	13
TSS(mg/l)	Not to exceed 50	<5			14	97	<5	18	12
COD (mg/l)	N.P.	<10			44	137	<10	43	71
Turbidity(NTU)	Not to exceed 30	NA			NA	NA	NA	NA	NA
DO(mg/l)	Not less than 4	6.3			1.1	NA	7.1	<1	5.7

N.P.: Not prescribed NA:Not Applicable

## Reports for month of July 2021

PH	6.5 to 9	7.8			7.34	7.5	6.9	7.97	7.76
Oil & grease (mg/l)	Not to exceed 50	BDL			BDL	NA	BDL	BDL	BDL
BOD(mg/l)	Not to exceed 50	<5			33	45	<5	24	20
TSS(mg/l)	Not to exceed 50	<5			35	81	<5	28	17
COD (mg/l)	N.P.	<10			69	79	<10	50	39
Turbidity(NTU)	Not to exceed 30	NA			NA	NA	NA	NA	NA
DO(mg/l)	Not less than 4	6.8			BDL	NA	7	3.6	4.9

N.P.: Not prescribed NA:Not Applicable

## Reports for month of August 2021

PH	6.5 to 9	7.23			7.21	7.23	7.12	7.23	7.36
Oil & grease (mg/l)	Not to exceed 50	BDL			BDL	NA	BDL	NA	BDL
BOD(mg/l)	Not to exceed 50	<5			25	90	<5	105	27
TSS(mg/l)	Not to exceed 50	<5			20	141	<5	155	19
COD (mg/l)	N.P.	<10			54	208	<10	240	39
Turbidity(NTU)	Not to exceed 30	NA			NA	NA	NA	NA	NA
DO(mg/l)	Not less than 4	4.9			BDL	NA	8	<1	1.7

N.P.: Not prescribed NA:Not Applicable

