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**Fwd: Submission of Quarterly Report - Case No. OA 556 to 559 of 2018**

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PO CRRT &lt;po.crrt@gmail.com&gt;

Wed, Jan 27, 2021 at 11:15 AM

To: ENVIRONS CRRT &lt;environs.crrt@gmail.com&gt;

Submission of First Quarterly report to NGT, Principal Bench - Order dated 13.2.2019

----- Forwarded message -----

From: **PO CRRT** <po.crrt@gmail.com>

Date: Thu, May 30, 2019 at 1:02 PM

Subject: Submission of Quarterly Report - Case No. OA 556 to 559 of 2018

To: &lt;ngt.filing@gmail.com&gt;

Cc: &lt;mawssec@tn.gov.in&gt;, &lt;mawsmc1@gmail.com&gt;, &lt;membersecretary.crrt@gmail.com&gt;, Viswanathan S &lt;viswanathan.tnudf@gmail.com&gt;, Santhosh &lt;wrscrtr@gmail.com&gt;, CRRT Jayanth J &lt;social.crrt@gmail.com&gt;, Ravikumar Mani &lt;ravikumarbc.mani86@gmail.com&gt;, &lt;mawsma4@gmail.com&gt;

Sir,

As directed by the Honourable National Green Tribunal, Principal Bench, New Delhi in its order dated 13.2.2019, the Quarterly Report and the Minutes of the Meeting conducted by Chief Secretary of Tamil Nadu regarding the case no. OA 556 to 559 is filed.

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**7 attachments****Minutes of Fortnightly Review meeting held on 08.03.2019.pdf**

640K

**Minutes of Fortnightly Review meeting held on 19.3.2019.pdf**

588K

**Minutes of Fortnightly Review meeting held on 1.4.2019.pdf**

1041K

**Minutes of Fortnightly Review Meeting held on 15.4.2019.pdf**

530K

**Minutes of Fortnightly Review meeting held on 06.05.2019.pdf**

445K

**Minutes of Fortnightly Review Meeting held on 20.05.2019.pdf**

175K

**Quarterly Report - NGT 30.5.2019.pdf**

122K

## **STATUS OF RIVER RESTORATION PROJECTS IN CHENNAI**

The Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi in its Order dated: 13.02.2019 in Case No. O.A.556 to 559 of 2018 directed that "the Committee headed by Chief Secretary which met on 01.02.2019 may continue to meet fortnightly for a period of next three months and thereafter on monthly basis to review the progress in the matter. Quarterly reports may be furnished to this Tribunal on the progress in the matter by email at ngt.filing@gmail.com. The first such report may be furnished on or before 31.05.2019 by e-mail". Further, the Chief Secretary was requested to present the progress of the ongoing river restoration projects on 23.04.2019 during the personal appearance before the Tribunal, Principal Bench, New Delhi.

In compliance with the above Orders issued by the Hon'ble NGT (PB), New Delhi, the Chief Secretary conducted 6 (Six) Fortnightly review meetings on 08.03.2019, 19.03.2019, 01.04.2019, 15.04.2019, 06.05.2019 and 20.05.2019. The Minutes of the above meetings are attached herewith.

As the restoration of Chennai Waterways has been at the top of the agenda for the Government of Tamil Nadu, an eco-restoration plan for Cooum and Adyar Rivers has been prepared to rejuvenate the riverine system. The implementation of the sub-projects of the eco-restoration plan has been taken up by the Line Departments such as Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB), Greater Chennai Corporation, Public Works Department (PWD), Commissionerate of Municipal Administration, Directorate of Town Panchayats and Department of Rural Department & Panchayat Raj. Tamil Nadu Slum Clearance Board and Chennai Rivers Restoration Trust is entrusted with coordinating and monitoring the projects.

### **INTEGRATED COOUM RIVER ECO-RESTORATION PROJECT**

Work on the sub-projects has been initiated by the concerned line departments and are under various stages of progress as detailed below:

#### **1. Public Works Department (PWD):**

PWD has been entrusted with the implementation of 9 sub-projects viz., desilting the river to enhance free flow of water during monsoon, formation of baby canal to maintain minimum ecological flow during the non-monsoon season and bio-engineering

to stabilize the bunds etc. The objectives are to desilt and widen the river for a length of 32 km from Paruthipattu Anicut to river mouth, to form baby canal for a length of 17.6 km from Paruthipattu Anicut to Chetpet Railway Bridge and bio-engineering for a length of 60 km on both the banks of the river. Thus far, a total of 22.11 km of desilting out of 29.5 km and baby canal formation of 14.54 km out of 17.66 km has been completed by PWD. The continuous opening of river mouth and desilting of the river within the CRZ stretch i.e., from Cooum River mouth to Chetpet Railway bridge (Ch. 0 to 700 m) will be carried out based on the recommendations in the final report on sustainable solutions for river mouth opening, being prepared by NIOT(expected by May, 2019).

## **2. Greater Chennai Corporation (GCC):**

GCC has been entrusted with the implementation of 12 sub-projects. The work components consist of 4 maintenance walkways, 5 parks, fencing for a length of 23.92 km on both the sides of the river, removal of 81,364 MT of Construction and Demolition waste and 23,527 MT of Municipal Solid Waste alongside the river and installation of booms at 8 locations to collect the floating waste in the river. Restoration works is under progress on all sub-projects and the status of the works is as follows:

### **i. Removal of Solid Waste:**

Out of 81,364 MT of debris and 23,527 of garbage, thus far 73588 MT of debris and 16304 MT of garbage have been cleared, respectively.

### **ii. Installation of Booms:**

Work on installation of Boom Systems to arrest floating waste in the river has been completed in all the 8 locations i.e., near C in C bridge, Periyar bridge, Choolaimedu, Mehta Nagar, near Central Buckingham canal, near Madras Medical College, Quaid-E-Milleth bridge and near Napier Bridge. The accumulated floating waste in the river is being cleared thrice a week. 28650 MT of floating waste has been cleared thus far.

### **iii. Fencing:**

Fencing work has been fully completed for a length of 7.54 km and work is under progress for another 1.84 km out of a total length of 23.92 km.

#### **iv. Parks and Walkways:**

- Out of 9 works, 7 works within CRZ area will be taken up after the completion of desilting by PWD. For the Nature Trail Park proposed from College Road Bridge to Munroe Bridge (Chainage 6800 m to 8300 m) piling, beam work, column plastering, board walk and painting works have been completed for a length of 50 m. For the remaining stretches, work is under progress. The work on the park at Golden George Nagar, Mogappair will be initiated after the disposal of the court case.

### **3. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB):**

CMWSSB has been entrusted with the implementation of 15 sub-projects. The work components consist of 10 Interception & Diversion systems along the river and 3 modular sewage treatment plants (STPs) at Chetpet, College Road and near Maduravoyal by-pass, one 10 MLD sewage treatment plant at Langs Garden and 1 Under Ground Sewerage Scheme (UGSS) at Nerkundram. Work on 13 sub-projects is in progress as detailed below:

#### **i. Interceptor and Diversion pipelines:**

- Package V (Anna Nagar) – 100% of the work has been completed and it has been commissioned.
- Package X (Anna Nagar) – 95 % of work completed and the remaining work will be completed by July, 2019.
- Package II (Chetpet) – 75% of work completed and the remaining work will be completed by June 2019.
- Package III (Nungambakkam) – 65% of work completed and the remaining work will be completed by Feb 2020.
- Package IV (Mehta Nagar) – 26% of work completed. Due to slow progress the contract has been terminated and a fresh tender is being called for. The tender will be floated within 3 to 4 weeks.
- Package VI (Langs Garden Road) – 23% of work completed and the remaining work will be fully completed by December, 2019.

- Package VIII A (Near Ampa Mall) – 60% of work completed and the work will be fully completed by August, 2019.
- Package VIII B (Aminjikai) – 45% of work completed and the work will be fully completed by March, 2020. MUDP allotments have to be cancelled by TNSCB.
- Package VIII C (Aminjikai) – 60% of work completed and the work will be fully completed by June 2020. MUDP allotments have to be cancelled by TNSCB.
- Package VII (South Coom Road) – Work commenced on 14.2.2019. Thus far, 5 % work completed and the remaining work is under progress. Work will be fully completed by February, 2020.
- Package IX (NSK Nagar) – Work order has been issued. However, resettlement of encroachments has to be taken up in this area.
- Package 1A & 1B (Swami Sivananda Salai) – The location of the pumping station is adjoining the MRTS Chintadripet. Permission from Divisional Engineer, Southern Railways has been obtained on 7.3.2019 to allocate the land for Pumping Station.

#### **ii. Modular STPs**

- Preliminary works have been initiated for installing the proposed 3 modular STPs. DG sets for all the sites have been procured, works for laying PCC for pedestal is in progress and the expected date of completion is 30.09.2019.
- For one 10 MLD STP, site has been handed over to the contractor to commence the work. Proposed date of completion is 31.05.2021.
- For UGSS Nerkundram, the work commenced on 04.03.2019 and the work is proposed to be completed by August, 2021.

#### **4. Commissioner of Municipal Administration (CMA):**

CMA has been entrusted with the implementation of 2 sub-projects. The work components consist of removal of 1648 MT of solid waste along the river side in Thiruverkadu Municipality and fencing for a length of 10.78 km. Removal of 1648 MT of

solid waste has been fully completed. Fencing work has also been completed for a length of 2.66 km and for the remaining 8.30 km, work is in progress.

#### **5. Department of Rural Development (DRD):**

DRD has been entrusted with the implementation of 7 sub-projects. The work components consist of removal of 4582 cubic metre of solid waste alongside the river, fencing for a length of 3.3 km in 3 village panchayats (Seneerkuppam, Adayalampattu and Vanagaram) and plantation at Vanagaram. Removal of 4582 cubic metre of solid waste has been fully completed in all the 3 village panchayats. Work on fencing has been completed for a length of 1.52 km and for the remaining 1.78 km, work is in progress. Plantation work will be taken up after the completion of desilting and stabilization of bund by PWD.

#### **6. Tamil Nadu Slum Clearance Board (TNSCB)**

Under this project, Tamil Nadu Slum Clearance Board (TNSCB) has been fully entrusted with the Resettlement & Rehabilitation (R&R) of 14257 identified Project Affected Families (PAFs) and 458 commercial establishments. The relocation of the slum families (Project Affected Families) from encroached habitations along the banks of the Cooum River has been carried out by respective ULBs, i.e. Greater Chennai Corporation, Thiruverkadu Municipality, District Administration along with Public works Department and TNSCB. So far, **8166** slum families (With GCC Limits – 7925 PAFs + 241 PAFs beyond GCC Limits) been resettled in the Tamil Nadu Slum Clearance Board tenements in the Perumbakkam, Navalur, Gudapakkam, Thiruvotriyur AIR Schemes and all the commercial establishments have been fully evicted.

Regarding Madras Urban Development Project (MUDP) allottees, TNSCB has issued cancellation proceedings of 77 Allotment Orders. TNSCB will decide on the financial compensation for the 77 MUDP allotments. Accordingly, the subject will be placed in the forthcoming TNSC Board meeting for a final decision.

#### **7. Chennai Rivers Restoration Trust (CRRT):**

CRRT is entrusted with plantation of mangroves, mangrove associates and terrestrial plants alongside the river. The plantation work will be taken after the completion of desilting and stabilization of bunds by PWD and other riverfront development works up by GCC.

## **ADYAR RIVER RESTORATION PROJECT FROM ORIGIN TO MOUTH**

Work on the sub-projects of the Adyar River Restoration Project has been initiated by the various line departments in 2018 and are under various stages of progress as detailed below:

### **1. Public Works Department (PWD)**

PWD has been entrusted with the implementation of 7 sub-projects. It is proposed to desilt and widen the river for 16.18 km, construction of flood protection walls for 1.76 km, construction of inlets and river mouth opening and its maintenance. Out of the seven, 4 sub-projects fall within the Coastal regulation Zone (CRZ) and require CRZ clearance. For the remaining three stretches, widening and desilting works have commenced.

### **2. Greater Chennai Corporation (GCC)**

GCC has been entrusted with the implementation of 19 sub-projects. The work components consist of 3 maintenance ways, 5 walk ways & cycle tracks, 2 parks, boat jetties at 2 locations, fencing for a length of 24.67 km on both the sides of the river, solid waste removal alongside the river, levelling and compacting the solid waste at dumpsite, booms at 3 locations to collect the floating waste in the river, beautification of bridges (3 nos), community toilets in 5 locations, parking lots at 5 locations and plantations all along the river.

- Under fencing work, out of total 24.67 km length, work has commenced for a length of 6.51 km and is in various stages of completion like piles, pile caps, grade beams, columns and RRM.
- For solid waste removal, work order has been issued will be commenced shortly.
- For the installation of trash boom systems at 3 suitable locations across the Adyar River, re-tenders are being called.
- For the beautification of bridges being maintained by GCC, work has been completed for one bridge and for two bridges, work is under progress.
- Riverfront Development works will be taken up after completion of desilting by PWD and laying of Interception & Diversion (I&D) pipelines by CMWSSB.

### **3. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB)**

CMWSSB informed that, out of 14 sub-packages, Technical Sanction has obtained for all 14 packages. Work orders have been issued for 3 packages out of which, work on one package (Package II) has been initiated and tenders are under evaluation for 8 packages; land issues are being resolved for 2 packages and tender has been cancelled for 1 package as the alternative proposal for linking the outfall to the pumping station proposed under Nandambakkam UGSS has been approved.

### **4. Commissionerate of Municipal Administration (CMA)**

CMA has been entrusted with the implementation of 4 sub-projects. The work components consist of solid waste removal alongside the river, fencing for a length of 3.32 km, community toilet at 1 location and plantation alongside the river.

- Fencing work: Out of 3.32 km, fencing work is in progress for a length of 1.7 km.
- For construction of community toilet 40% of work has been completed.
- Solid waste removal: thus far 287 MT out of 522 MT of garbage has been removed. The remaining work will be taken up after the removal of encroachments.
- I&D and Modular STP: Instead of I&D and Modular STPs proposed earlier, UGSS will be taken up in both Pammal and Anakaputhur Municipalities. M/s. TWIC Ltd. has submitted the DPR at an estimated cost of Rs.132.35 crores. The projects are proposed to be funded under IUDM 2019-2020.

### **5. Directorate of Town Panchayats (DTP)**

DTP has been entrusted with the implementation of 4 sub-projects. The work components consist of solid waste removal alongside the river, fencing for a length of around 14 km, community toilet at 1 location and plantation alongside the river.

- Under fencing work, out of total length of 16.25 km, piling works have been completed for 5100 m, grade beam completed for a length of 3330 m and column works completed for 1735 m in 3 Town Panchayats.

- For solid waste removal, work order has been issued on 04.03.2019 to implement bio-mining. The Centre for Environmental Studies, Anna University, Chennai has been engaged as third part inspection agency to inspect the site to offer technical guidance. The agency has completed the site inspection and their technical report is awaited to start the biomining work.

#### **6. Directorate of Rural Development and Panchayat Raj (DRD)**

DRD has been entrusted with the implementation of 4 sub-projects. The work components consist of solid waste removal alongside the river, fencing for a length of 21.5 km, and plantation along the river bank.

- For fencing work for a total length of 35.171 (44 packages), work has commenced in 29 packages and thus far, 4693 piles, 3132 columns and grade beam for 9352 m and brickwork 5697 m have been completed. For 11 packages, preliminary works are under progress and LOA issued on 19.02.2019 for 4 packages.
- For solid waste removal, out of 8275 MT thus far 4000 MT has been removed and the removal of the remaining 4275 MT is in progress.

#### **7. Tamil Nadu Slum Clearance Board (TNSCB):**

A total of 9539 Project Affected Families (PAFs) from 27 habitations living alongside of the Adyar River have been identified for Resettlement and Rehabilitation (R&R) under this project. TNSCB informed that, out of 9539 PAFs identified on the banks of the Adyar River, thus far, 4398 PAFs have been resettled and remaining 5141 PAFs are yet to be resettled.

#### **8. State Highways Department:**

State Highways Department informed that work order has been issued for the beautification of Maraimalai Adigalar Bridge.

#### **9. Chennai Rivers Restoration Trust:**

CRZ Clearance order has been obtained from DCZMA for sub-projects falling within CRZ area. The Rapid Environment Impact Assessment Report has been submitted to Tamil Nadu State Coastal Zone Management Authority (SCZMA) for sanction and it is under process.

## Way Forward

The Chief Secretary of Tamil Nadu appeared before the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi on 23.04.2019 and informed the progress in the ongoing works as well as the works proposed to be taken up, in order to prevent sewage outfalls into waterways. The details are furnished below:

### Works proposed:

- The Buckingham Canal from Ennore Creek to Muttukadu Backwaters within Chennai Metropolitan Area criss crosses Kosathalayar, Adyar and Cooum rivers and the current restoration efforts in Cooum and Adyar rivers cannot be comprehensively completed without restoration of Buckingham Canal. In this regard, a consultant has been appointed for the preparation of DPR for Buckingham Canal and other drains that confluence into this canal. There are 1067 outfalls into **Buckingham Canal & its major drains**. Mitigation measures are proposed in the form of I&D pipelines and Modular STPs at a total cost of 591.74 crore.
- There are 150 outfalls from major canals which confluence with **Cooum River**. Mitigation measures are proposed in the form of laying I&D pipelines and Modular STPs at a total cost of Rs.31.46 crore.
- There are 228 outfalls from major canals which confluence with **Adyar River**. Mitigation measures are proposed in the form of I&D pipelines and Modular STPs at a total cost of Rs.80.72 crore.
- In addition to the above, there is a need to strengthen the existing sewerage system in order to cater to the needs of the burgeoning population of Chennai, and hence measures like laying & enlargement of pumping mains, construction of STPs, construction of new pumping stations, improvement to existing pumping stations, enlargement of gravity sewers, online monitoring of discharged quality of effluent in STPs & procurement of 50 nos. of sewer lorries are proposed for a cost of Rs.300 crores to prevent sewage inflows into the Chennai waterways.

Funding is being organised for all the above works that are proposed to be completed within 3 years at a total cost of **Rs.1003.92 Crs** as detailed below:

S.No	Name of the Proposal	Amount (Rs. in Cr.)
1.	Rejuvenation of Cooum Drains	31.46
2.	Rejuvenation of Adyar Drains	80.72
3.	Rejuvenation of Buckingham Canal and Drains	591.74
4.	Strengthening the existing sewerage system	300.00
<b>Total (Rs. in Cr.)</b>		<b>1003.92</b>

In compliance with the directions of the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi vide Order dated 13.02.2019, the Chief Secretary will continue to conduct monthly meetings to review the progress of the river restoration works and to ensure that Chennai's waterways are restored, in keeping with the stated commitment of the Government of Tamil Nadu.



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**Fwd: Submission of 2nd Quarterly Report - Case No. OA 556 to 559 of 2018**

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Wed, Jan 27, 2021 at 11:16 AM

Submission of 2nd Quarterly report to NGT, Principal Bench - order 13.2.2019

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From: **PO CRRT** <po.crrt@gmail.com>

Date: Fri, Aug 30, 2019 at 3:43 PM

Subject: Submission of 2nd Quarterly Report - Case No. OA 556 to 559 of 2018

To: &lt;ngt.filing@gmail.com&gt;

Cc: &lt;mawssec@tn.gov.in&gt;, &lt;mawsmc1@gmail.com&gt;, &lt;membersecretary.crrt@gmail.com&gt;, Viswanathan S &lt;viswanathan.tnudf@gmail.com&gt;, Santhosh &lt;wrscrtr@gmail.com&gt;, CRRT Jayanth J &lt;social.crrt@gmail.com&gt;, &lt;mawsma4@gmail.com&gt;

Sir,

As directed by the Hon'ble National Green Tribunal, Principal Bench, New Delhi in its order dated 13.02.2019, the 2nd Quarterly Report and the Minutes of the Meeting conducted by the Chief Secretary of Tamil Nadu regarding the case no. OA 556 to 559 is filed herewith.

Thank you.

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**4 attachments****CS Minutes -25.06.2019.pdf**

208K

**CS Minutes - 11.07.2019.pdf**

203K

**2nd Quarterly report\_30.08.2019.pdf**

290K

**CS Minutes - 22.8.2019.pdf**

332K

## **STATUS OF RIVER RESTORATION PROJECTS IN CHENNAI**

The Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi in its Order dated: 13.02.2019 in Case No. O.A.556 to 559 of 2018 directed that "the Committee headed by Chief Secretary which met on 01.02.2019 may continue to meet fortnightly for a period of next three months and thereafter on monthly basis to review the progress in the matter. Quarterly reports may be furnished to this Tribunal on the progress in the matter by email at ngt.filing@gmail.com". Accordingly, the first quarterly report was submitted by email on 30.05.2019.

Since then, in compliance with the above orders issued by the Hon'ble NGT (PB), New Delhi, the Chief Secretary conducted three monthly review meetings on 25.06.2019, 11.07.2019, 22.08.2019. The minutes of the above meetings are attached herewith.

Restoration of Chennai's major waterways is a top priority for the Government of Tamil Nadu and to this end, river restoration plans of both Cooum and Adyar rivers have been drawn up and are currently under implementation by various line departments such as Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB), Greater Chennai Corporation, Public Works Department (PWD), Commissionerate of Municipal Administration, Directorate of Town Panchayats and Department of Rural Development and Tamil Nadu Slum Clearance Board. Chennai Rivers Restoration Trust is entrusted with coordinating and monitoring the projects. The progress of restoration of the waterways over the last quarter is detailed below:

### **INTEGRATED COOUM RIVER ECO-RESTORATION PROJECT**

Work on the sub-projects has been initiated by the concerned line departments and are under various stages of progress as detailed below:

#### **1. Public Works Department (PWD):**

PWD has been entrusted with the implementation of 9 sub-projects viz., desilting the river to enhance free flow of water during monsoon, formation of baby canal to maintain minimum ecological flow during the non-monsoon season and bio-engineering to stabilize the bunds etc. Thus far, a total of 22.9 km of desilting and baby canal formation of 14.5 km has been completed by PWD.

In the three reaches beyond the CRZ stretch i.e., Ch. 9677 m to 27336 m, desilting has been fully completed. The baby canal has been completed in Reach I and Reach III, except for 248 m in Reach II. The remaining areas are heavily waterlogged with an average depth of

3 m and therefore a baby canal cannot be formed. Therefore, PWD is undertaking river bed gradient correction and bell mouth formation to ensure connectivity and free flow of water between the water logged stretches and the length of the baby canal.

## **2. Greater Chennai Corporation (GCC):**

GCC has been entrusted with the implementation of 12 sub-projects. The work components consist of 4 maintenance walkways, 5 parks, fencing for a length of 23.92 km on both the sides of the river, removal of 81,364 MT of construction and demolition waste and 23,527 MT of Municipal Solid waste alongside the river and installation of booms at 8 locations to collect the floating waste in the river. The status of the work progress is as follows:

### **i. Removal of Solid Waste:**

Out of 81,364 MT of debris and 23,527 MT of garbage, thus far 76430 MT of debris and 16,824 MT of garbage have been cleared, respectively.

### **ii. Installation of Booms:**

Boom Systems to arrest floating waste in the river have been successfully installed at all the 8 locations i.e., near C in C bridge, Periyar bridge, Choolaimedu, Mehta Nagar, near Central Buckingham canal, near Madras Medical College, Quaid-E-Milleth bridge and near Napier Bridge. The accumulated floating waste in the river is being cleared thrice a week. 32,500 MT of floating waste has been cleared from the booms, thus far.

### **iii. Fencing:**

Fencing work has been fully completed for a length of 8.42 km and work is under progress for another 1.1 km out of a total length of 23.92 km.

### **iv. Parks and Walkways:**

Out of 9 parks & walkways proposed as part of the riverfront development work, 8 works within CRZ area will be commenced immediately after PWD completes bund formation. The proposed park at Golden George Nagar, Mogappair will be taken up after the disposal of the court case.

## **3. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB):**

CMWSSB has been entrusted with the implementation of 15 sub-projects. The work components consist of 10 Interception & Diversion systems along the river and 3 Modular Sewage Treatment Plants (STPs) at Chetpet, College Road and Maduravoyal, one 10 MLD

sewage treatment plant at Langs Garden and 1 Under Ground Sewerage Scheme (UGSS) at Nerkundram. Work on the 13 sub-projects is in progress as detailed below:

**i. Interceptor and Diversion pipelines:**

- Package V (Anna Nagar) – 100% works have been completed and the system has been commissioned.
- Package X (Anna Nagar) – 95% of civil work has been completed and the remaining work will be resumed once the encroachments (Moovendar Nagar) for 110 m are relocated.
- Package II (Chetpet) – 87% of the work has been completed, and the remaining work is in progress.
- Package III (Nungambakkam) – 69% of the work has been completed and the remaining work is in progress.
- Package IV (Mehta Nagar) – 26% of the work has been completed. Due to slow progress the contract has been terminated. Retender was called for and bids are under evaluation.
- Package VI (Langs Garden Road) - 26% of the work has been completed. The work will be resumed once PWD completes bund formation.
- Package VII (South Cooum Road) – 5% of work has been fully completed and the remaining work is under progress.
- Package VIII (Near Ampa Mall) – 63% of work has been fully completed across all 3 sub-packages.
- Package IX (NSK Nagar) – 250 PAFs have been relocated. Remaining encroachments and MUDP allotments have to be enumerated. Once the encroachments are removed, the work will be commenced.
- Package I (Chintadripet) - The proposed location of the pumping station is adjoining the MRTS Station, Chintadripet. CMWSSB is in the process of obtaining the land from Southern Railway on a long term lease for 35 years and will commence work.

**ii. Modular STPs**

- The civil work for 2 Modular STPs in Chetpet and Numgambakkam are under progress. Both the Modular STPs will be installed by 30.10.2019

PWD has allocated an alternate land near Nolambur for the construction of third Modular STP as the current location is not free for construction.

- For the 10 MLD STP, site clearance and demolishing the existing civil structures has been completed.
- iii. For UGSS Nerkundram, 5% of the the work has been completed and the remaining work is under progress.

#### **4. Commissioner of Municipal Administration (CMA):**

CMA has been entrusted with the implementation of 2 sub-projects. The work components consist of removal of 1648 MT of solid waste along the river side in Thiruverkadu Municipality and fencing for a length of 10.78 km. Removal of 1648 MT of solid waste has been fully completed. Fencing work has been fully completed for a length of 2.9 km and for the remaining 7.9 km, work is in progress.

#### **5. Department of Rural Development (DRD):**

DRD has been entrusted with the implementation of 7 sub-projects. The work components consist of removal of 4582 cubic metre of solid waste alongside the river, fencing for a length of 3.3 km in 3 village panchayats (Seneerkuppam, Adayalampattu and Vanagaram) and plantation at Vanagaram.

- The accumulated solid waste for a quantity of 4582 cu.m has been fully removed from the banks of the Cooum river within the DRD areas viz., Senneerkuppam, Adayalampattu and Vanagaram Village Panchayats.
- Fencing works have been fully completed in 2 Village Panchayats viz., Vanagaram and Adayalampattu. In Seneerkuppam fencing work has been completed for 600 m out of 1000 m and the work is expected to be completed by December, 2019.
- Plantation work will be taken up after the completion of desilting and stabilization of bund by PWD.

#### **6. Tamil Nadu Slum Clearance Board (TNSCB)**

Tamil Nadu Slum Clearance Board (TNSCB) has been entrusted with the Resettlement & Rehabilitation (R&R) of 14257 identified Project Affected Families (PAFs) and 458 commercial establishments. The relocation of the families (Project Affected Families) from encroached habitations along the banks of the Cooum River has been carried out by respective ULBs, i.e. Greater Chennai Corporation, Thiruverkadu Municipality and the respective District Administrations along with Public works Department and TNSCB. Thus

far, 8166 families (With GCC Limits – 7925 PAFs + 241 PAFs beyond GCC Limits) have been resettled in the Tamil Nadu Slum Clearance Board tenements in the Perumbakkam, Navalur, Gudapakkam, Thiruvotriyur and AIR Schemes.

Regarding Madras Urban Development Project (MUDP) allottees, TNSCB has initiated the cancellation procedure of 74 Allotment Orders issued by TNSCB in 5 slum habitations on the banks of the Cooum River viz., Muthumariamman Koil Colony, M.G.R. Colony, Kathiravan Colony, Gajalakshmi Colony and Moovendar Nagar. The compensation payable has been worked out. The orders of the Government are being sought to cancel the allotment orders for the MUDP plots.

#### **7. Chennai Rivers Restoration Trust (CRRT):**

CRRT is entrusted with plantation of mangroves, mangrove associates and terrestrial plants alongside the river. The plantation work will be taken after the completion of desilting and stabilization of bunds by PWD and other riverfront development works by GCC.

Regular and periodic awareness programmes are being conducted on the Integrated Cooum River Eco-Restoration Project for various stakeholders such as Residents Welfare Associations, National Green Corps of educational institutions, eco-clubs of schools and other community based organisations, since September 2016. Thus far, 3893 stakeholders have been sensitised under this Community Education Programme.

### **ADYAR RIVER RESTORATION PROJECT FROM ORIGIN TO MOUTH**

Work on various sub-projects of the Adyar River Restoration Project were initiated by all the line departments in 2018 and are under various stages of progress.

#### **1. Public Works Department (PWD)**

PWD has been entrusted with the implementation of 7 sub-projects - desilting and widening the river for 16.18 km; construction of flood protection walls for 1.76 km and river mouth opening and its maintenance. The work progress is detailed below:

- In the CRZ stretch, for packages 2 & 3 (i.e., from 2007 m to 4360 m and 4383 m to 7275 m) work orders have been issued for widening and desilting works and CRZ clearance is being awaited to commence the work. The expected date of completion is 12 months from the date of CRZ clearance. CRRT has obtained District Coastal Zone Management Authority and State Coastal Zone Management Authority clearance. A presentation has been made to the MoEF&CC on 19.08.2019, and orders are awaited.

- For package 4, i.e., from Ch. 7325 m to 9823 m, preliminary works have been commenced for widening and desilting works and construction of flood protection wall is in progress for a length of 100 m.
- For package 5, i.e., from Ch. 9848 m to 13182 m, preliminary works have been commenced for widening and desilting works and for construction of flood protection wall.
- For package 6, i.e., from Ch. 18100 m to 20620 m and Ch. 21420 m to 21900 m, preliminary works have been commenced for widening and desilting and construction of flood protection wall for a length of 370 m is in progress.
- For package 1, which includes dredging between Ch. 0 m to 1963 m, PWD is in the process of applying for CRZ clearance, as this is a new sub-project taken up by PWD only recently.
- For package 7 (maintenance of river mouth for 4 consecutive years) CRZ clearance is awaited.

## **2. Greater Chennai Corporation (GCC)**

GCC has been entrusted with the implementation of 19 sub-projects. The work components consist of 3 maintenance ways, 5 walk ways & cycle tracks, 2 parks, boat jetties at 2 locations, fencing for a length of 24.67 km on both the sides of the river, solid waste removal alongside the river, levelling and compacting the solid waste at dumpsite, booms at 3 locations to collect the floating waste in the river, beautification of bridges (3 nos), community toilets in 5 locations, parking lots at 5 locations and plantations alongside the river course.

- Under this project, out of a total 24.67 km., fencing work has been fully completed for 300 m and works are in various stages of completion for a stretch of 8.9 kms.
- Locations have been identified for the removal of accumulated solid waste along the banks and work will be taken up after construction of fencing to avoid re-dumping.
- For the trash boom systems which are to be installed at 3 suitable locations across the Adyar River, financial negotiation of bids is under way.
- Regarding the work on beautification of bridges being maintained by GCC, work has been completed on all the three bridges (South Buckingham Canal Bridge near Kotturpuram Railway Station, Thiru. Vi. Ka Bridge and Alandur Bridge). Work has commenced on one bridge being maintained by State Highways Department i.e., Maraimalai Adigalar Bridge (Saidapet Bridge).

- The proposed riverfront development work will be taken up after the completion of desilting by PWD and laying of I&D pipelines by CMWSSB.
- Parking lots at 5 locations will be taken up along with park development.
- For the construction of community toilet at 5 locations, re-tender is being called for.

### **3. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB)**

CMWSSB has been entrusted with 14 sub-packages and the status of works is as follows:

- For packages I, II, III, IV, V, VI and VII, work orders have been issued and preliminary works have been commenced.
- For packages VIII, IX, X and XI, tenders are under evaluation.
- For Package 12, tender has been cancelled and the proposal is to be dropped as an alternative proposal has been approved for linking the outfalls to the pumping station proposed under Nandambakkam UGSS.
- For Package 13 and 14, proposals are to be dropped as an alternate proposal has been included in the Adyar drains project to intercept Nandambakkam drain and construct SPS on the bank of the drain and pump it to Bharathi Salai SPS in Ramapuram UGSS.

### **4. Commissionerate of Municipal Administration (CMA)**

CMA has been entrusted with the implementation of 4 sub-projects - solid waste removal alongside the river; fencing for a length of 3.32 km; community toilet at 1 location and plantation alongside the river.

- In Pammal Municipality, fencing work is proposed for a length of 0.325 km. Resurvey is being carried out by PWD & revenue officials of Kancheepuram District as the river boundary falls within the river course.
- In Anakaputhur Municipality, fencing work is proposed for a total length of 3 km, of which, 1.3 km is under encroachment and relocation of 676 PAFs is to be taken up. For the remaining stretch of 1.70 km, work has been commenced in which civil work has been completed for a length of 0.3 km.
- For the construction of community toilet in Anakaputhur Municipality, foundation work has been completed and fixing of toilet units is under progress.
- Under solid waste removal, thus far 287 MT out of 522 MT of garbage has been removed. The remaining work will be taken up after the removal of encroachments and will be completed within 3 months from the date of eviction.

## **5. Directorate of Town Panchayats (DTP)**

DTP has been entrusted with the implementation of 3 sub-projects. The work components consist of solid waste removal alongside the river, fencing for a length of around 14 km, and plantation alongside the river.

- In Thiruneermalai Town Panchayat, fencing work is in progress for a length of 1.67 km out of the total length of 5.74 km.
- For fencing work proposed for a length of 9.31 km in Perungalathur Town Panchayat, work is in progress for 4.29 km length.
- In Kundrathur Town Panchayat, fencing work is proposed for 1.2 km. Thus far, fencing has been fully completed for a length of 1.1 km and work is in progress for the remaining length.
- For solid waste removal, bio-mining works have commenced. Heaping of legacy waste and erection of machineries has been completed.
- Plantation work will be carried out after the completion of fencing works.

## **6. Directorate of Rural Development and Panchayat Raj (DRD)**

DRD has been entrusted with the implementation of 4 sub-projects - solid waste removal alongside the river; fencing for a length of 35.1 km, community toilet and plantation along the river bank.

- Under this project, fencing work is proposed for a total length of 35.17 km, of which work is in progress for a length of 13.51 km.
- A community toilet proposed under this project is proposed to be dropped as the area has been declared as ODF.
- Under solid waste removal, out of 8275 MT, thus far 4000 MT of accumulated solid waste has been removed. The remaining work will be taken up after the completion of fencing in order to avoid re-dumping and is expected to be completed by December 2019.
- Plantation work will be carried out after the completion of fencing works.

## **7. Tamil Nadu Slum Clearance Board (TNSCB):**

A total of 9539 Project Affected Families (PAFs) from 27 habitations living alongside of the Adyar River have been identified for Resettlement and Rehabilitation (R&R) under this project. Out of 9539 PAFs identified on the banks of the Adyar River, thus far, 4398 PAFs have been resettled and the remaining 5141 PAFs are to be resettled.

## **8. Chennai Rivers Restoration Trust:**

CRRT has obtained District Coastal Zone Management Authority and State Coastal Zone Management Authority clearance. A presentation has been made to the MoEF&CC on 19.08.2019, and orders are awaited.

### **Way Forward**

The current restoration efforts in Cooum and Adyar rivers cannot be comprehensively completed without restoration of Buckingham Canal and the drains that confluence with the major rivers, such as Virugambakkam Canal, Mambalam drain, Otteri Nallah and Captain Cotton Canal. With this objective, consultants were appointed for the preparation of three DPRs for the restoration of Cooum Drains, Adyar Drains and Buckingham canal (including its associate drains) with the stated objectives of pollution abatement, flood management and to identify the areas where the stretches could be put in use for recreational activities for the community. The preparation of DPRs for these three projects has been completed.

### **Works proposed:**

- The Hon'ble Chief Minister of Tamil Nadu, on the floor of the Assembly has made an announcement that a project for the mitigation of sewage outfalls in Adyar, Buckingham Canal and Cooum river basin in Chennai city will be taken up and implemented by Chennai Rivers Restoration Trust/Chennai Metropolitan Water Supply and Sewerage Board at a cost of Rs. 2371 crore.
- The Government has accorded in-principle approval for a total project cost of Rs. 2371 crore for sewage mitigation in Adyar and Cooum basins as well as Buckingham Canal, out of which Administrative Sanction has been accorded for sanitation projects for Rs.1001 crs under Phase I, vide GO (Ms) No. 107 MA&WS (MW1) Department, dated 20.08.2019.

In compliance with the directions of the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi vide Order dated 13.02.2019, the Chief Secretary will continue to conduct monthly meetings to review the progress of the river restoration works and to ensure that Chennai's waterways are restored, in keeping with the stated commitment of the Government of Tamil Nadu.



ENVIRONS CRRT &lt;environs.crrt@gmail.com&gt;

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**Fwd: Case no. OA 556 to 559 - Submission of Quarterly Report**

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PO CRRT &lt;po.crrt@gmail.com&gt;

Wed, Jan 27, 2021 at 11:20 AM

To: ENVIRONS CRRT &lt;environs.crrt@gmail.com&gt;

Submission of 3rd quarterly report to NGT, Principal Bench - Order 13.2.2019

----- Forwarded message -----

From: **PO CRRT** <po.crrt@gmail.com>

Date: Tue, Dec 10, 2019 at 5:01 PM

Subject: Case no. OA 556 to 559 - Submission of Quarterly Report

To: &lt;ngt.filing@gmail.com&gt;, &lt;mawssec@tn.gov.in&gt;, &lt;mawsmc1@gmail.com&gt;, &lt;membersecretary.crrt@gmail.com&gt;

Cc: Viswanathan S &lt;viswanathan.tnurf@gmail.com&gt;, Santhosh &lt;wrscrt@gmail.com&gt;, CRRT Jayanth J

&lt;social.crrt@gmail.com&gt;, &lt;gandhivrj@gmail.com&gt;

Sir,

As directed by the Hon'ble National Green Tribunal, Principal Bench, New Delhi in its order dated 13.02.2019, the 3rd Quarterly Report and the Minutes of the Meeting conducted by the Chief Secretary of Tamil Nadu regarding the case no. OA 556 to 559 is filed herewith.

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**4 attachments****NGT - Final Report - 30.11.2019.pdf**

298K

**CS Review Minutes - 28.9.2019.pdf**

337K

**CS Review Minutes - 30.10.2019.pdf**

309K

**CS Review Minutes - 27.11.2019.pdf**

314K

## **STATUS OF RIVER RESTORATION PROJECTS IN CHENNAI**

The Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi in its Order dated: 13.02.2019 in Case No. O.A.556 to 559 of 2018 directed that "the Committee headed by Chief Secretary which met on 01.02.2019 may continue to meet fortnightly for a period of next three months and thereafter on monthly basis to review the progress in the matter. Quarterly reports may be furnished to this Tribunal on the progress in the matter by email at ngt.filing@gmail.com". Accordingly, the first and second quarterly reports were submitted on 30.05.2019 and 30.8.2019 by email.

Since then, in compliance with the above orders issued by the Hon'ble NGT (PB), New Delhi, the Chief Secretary conducted three monthly review meetings on 28.09.2019, 30.10.2019 & 27.11.2019. The minutes of the above meetings are attached herewith.

Restoration of Chennai's major waterways is a top priority for the Government of Tamil Nadu and to this end, river restoration plans of both Cooum and Adyar rivers have been drawn up and are currently under implementation by various line departments such as Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB), Greater Chennai Corporation, Public Works Department (PWD), Commissionerate of Municipal Administration, Directorate of Town Panchayats and Department of Rural Development and Tamil Nadu Slum Clearance Board. Chennai Rivers Restoration Trust is entrusted with coordinating and monitoring the projects. The progress of restoration of the waterways over the last quarter is detailed below:

### **INTEGRATED COOUM RIVER ECO-RESTORATION PROJECT**

Work on the sub-projects has been initiated by the concerned line departments and are under various stages of progress as detailed below:

#### **1. Public Works Department (PWD):**

PWD has been entrusted with the implementation of 9 sub-projects viz., desilting the river to enhance free flow of water during monsoon, formation of baby canal to maintain minimum ecological flow during the non-monsoon season and bio-engineering to stabilize the bunds etc. Thus far, a total of 27 km of desilting and formation of baby canal has been fully completed by PWD.

## **2. Greater Chennai Corporation (GCC):**

GCC has been entrusted with the implementation of 12 sub-projects. The work components consist of 4 maintenance walkways, 5 parks, fencing for a length of 23.92 km on both the sides of the river, removal of 81,364 MT of construction and demolition waste and 23,527 MT of Municipal Solid waste alongside the river and installation of booms at 8 locations to collect the floating waste in the river. The status of the work progress is as follows:

### **i. Removal of Solid Waste:**

The removal of accumulated Solid waste removal works from the banks of the Cooum River has been fully completed.

### **ii. Installation of Booms:**

Boom Systems to arrest floating waste in the river have been successfully installed at all the 8 locations i.e., near C in C bridge, Periyar bridge, Choolaimedu, Mehta Nagar, near Central Buckingham canal, near Madras Medical College, Quaid-E-Milleth bridge and near Napier Bridge. The accumulated floating waste in the river is being cleared thrice a week. 35,000 MT of floating waste has been cleared from the booms, thus far.

### **iii. Fencing:**

Fencing work has been fully completed for a length of 9.60 km and work is under progress in remaining stretches, out of a total length of 23.92 km.

### **iv. Parks and Walkways:**

Out of 9 parks & walkways proposed as part of the riverfront development work, 8 works within CRZ area will be commenced immediately after PWD completes bund stabilization. The proposed park at Golden George Nagar, Mogappair will be taken up after the disposal of the court case.

## **3. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB):**

CMWSSB has been entrusted with the implementation of 15 sub-projects. The work components consist of 10 Interception & Diversion systems along the river and 3 Modular Sewage Treatment Plants (STPs) at Chetpet, College Road and Maduravoyal, one 10 MLD sewage treatment plant at Langs Garden and 1 Under Ground Sewerage Scheme (UGSS) at Nerkundram. Work on the 14 sub-projects is in progress as detailed below:

**i. Interceptor and Diversion pipelines:**

- Package V (Anna Nagar) – 100% works have been completed and the system has been commissioned.
- Package X (Anna Nagar) – 100 % works have been completed and the system will be commissioned at the earliest.
- Package II (Chetpet) – 95% of the work has been completed, and the remaining work is in progress.
- Package III (Nungambakkam) – 74% of the work has been completed. Due to slow progress of work, show cause notice is issued for termination on 17.10.2019.
- Package IV (Mehta Nagar) – 26% of work completed. Due to slow progress the contract has been terminated. Retender was invited on 26.4.2019 and rejected. Further, the estimate has been revised to the current SoR and the tender has been floated on 24.09.2019 by fixing due date as 22.10.2019. Tenders have been received and now price bid has been opened on 7.11.2019 and the agenda will be placed before Technical Committee and it is under circulation.
- Package VI (Langs Garden Road) - 26% of work completed. The work will be commenced after reduction of bund by PWD.
- Package VII (South Cooum Road) – 17% of work has been completed and the work is expected to be fully completed by 30.09.2020.
- Package VIII (Near Ampa Mall) – 94% of work has been fully completed across all 3 sub-packages.
- Package IX (NSK Nagar) – Once the encroachments are removed, the work will be commenced.
- Package I (Chintadripet) - An alternate proposal has been devised eliminating the need for construction of sewage pumping station on MRTS land, at a revised cost estimate of Rs.2.37 crs as against the original cost estimate of Rs.3.63 crs. Tender has been called for by fixing the due date as 15.10.2019 and 12.11.2019. Now, retender has been called with due date as 18.12.2019

## **ii. Modular STPs**

- Regarding Modular STP (1.0 MLD) near Collage Road, Chetpet, civil work is under progress and so far, 23% of work has been completed. The work will be completed by 26.9.2020.
- Regarding Modular STP (1.2 MLD) at Nungambakkam, civil work is under progress and so far, 12 % of work has been completed. The work will be completed by 24.5.2020.
- For Modular STP (0.6 MLD) at Maduravoyal, site clearance and soil investigation works have been completed and the work will be completed by 18.12.2020.
- For the 10 MLD STP, the work order was issued on 18.06.2018. Thus far 2% of work has been completed and is expected to be completed by 31.05.2021.

**iii.** For UGSS Nerkundram, thus far 9 % of work has been completed and the remaining work is under progress. The work is proposed to be completed by 31.12.2021.

## **4. Commissioner of Municipal Administration (CMA):**

CMA has been entrusted with the implementation of 2 sub-projects. The work components consist of removal of 1648 MT of solid waste along the river side in Thiruverkadu Municipality and fencing for a length of 10.78 km. Solid waste removal has been fully completed and fencing work has been fully completed for a length of 3.39 km and for the remaining stretches, work is under progress.

## **5. Department of Rural Development (DRD):**

DRD has been entrusted with the implementation of 7 sub-projects. The work components consist of removal of 4582 cubic metre of solid waste alongside the river, fencing for a length of 3.3 km in 3 village panchayats (Seneerkuppam, Adayalampattu and Vanagaram) and plantation at Vanagaram.

- The accumulated solid waste from the banks of the Cooum river within the DRD areas viz., Senneerkuppam, Adayalampattu and Vanagaram Village Panchayats has been fully removed.
- Fencing works have been fully completed in 2 Village Panchayats viz., Vanagaram and Adayalampattu. In Senneerkuppam fencing work has been

completed for 600 m and for 176 m, works are in various stages of completion.

- Plantation work will be taken up after the completion of desilting and stabilization of bund by PWD.

## **6. Tamil Nadu Slum Clearance Board (TNSCB)**

Tamil Nadu Slum Clearance Board (TNSCB) has been entrusted with the Resettlement & Rehabilitation (R&R) of 14257 identified Project Affected Families (PAFs) and 458 commercial establishments. The relocation of the families (Project Affected Families) from encroached habitations along the banks of the Cooum River has been carried out by respective ULBs, i.e. Greater Chennai Corporation, Thiruverkadu Municipality and the respective District Administrations along with Public works Department and TNSCB. Thus far, 9791 PAFs within GCC limits have been resettled at 4 TNSCB Scheme Areas, viz., Gudappakkam, Navalur, AIR Land & Perumbakkam.

## **7. Chennai Rivers Restoration Trust (CRRT):**

CRRT is entrusted with plantation of mangroves, mangrove associates and terrestrial plants alongside the river. The plantation work will be taken after the completion of desilting and stabilization of bunds by PWD and other riverfront development works by GCC.

### **ADYAR RIVER RESTORATION PROJECT FROM ORIGIN TO MOUTH**

Work on various sub-projects of the Adyar River Restoration Project were initiated by all the line departments in 2018 and are under various stages of progress.

#### **1. Public Works Department (PWD):**

PWD has been entrusted with the implementation of 7 sub-projects - desilting and widening the river for 16.18 km; construction of flood protection walls for 1.76 km and river mouth opening and its maintenance. The work progress is detailed below:

- For the package 1, i.e., from River mouth to Thiru. Vi. Ka bridge, PWD has to get CRZ Clearance. In view of this, a consultant has been appointed for the preparation of baseline report and it is under preparation. The application will be submitted to DCZMA by 15.12.2019.

- For packages 2 & 3, i.e., from Thiru.Vi.Ka. bridge to Kotturpuram bridge and Kotturpuram bridge to Saidapet road bridge, desilting works are under progress for a length of 2 km out of 5.2 km. The work is expected to be completed by December 2020.
- For package 4, i.e., from Saidapet road bridge to Jafferkhanpet road bridge, regarding construction of flood protection wall, third lift is completed for a length of 240 m. The expected date of completion is December, 2020.
- For package 5, i.e., from Jafferkhanpet road bridge to Manapakkam Check dam, construction of flood protection wall is in progress for a length of 325 m and desilting works are under progress for a length of 1 km out of 3.3 km work is in progress. The expected date of completion is December, 2020.
- For package 6, i.e., from Thiruneermalai to Outer Ring Road, regarding construction of flood protection wall, third lift is completed for a length of 370 m and desilting work is under progress for a length of 3 km. The expected date of completion is December, 2020.
- For package 7 (maintenance of river mouth for 4 consecutive years), CRZ Clearance has been denied by MOEF & CC and a multi seasonal study has to be undertaken by NIOT shortly.

## **2. Greater Chennai Corporation (GCC):**

GCC has been entrusted with the implementation of 19 sub-projects. The work components consist of 3 maintenance ways, 5 walk ways & cycle tracks, 2 parks, boat jetties at 2 locations, fencing for a length of 24.67 km on both the sides of the river, solid waste removal alongside the river, levelling and compacting the solid waste at dumpsite, booms at 3 locations to collect the floating waste in the river, beautification of bridges (3 nos), community toilets in 5 locations, parking lots at 5 locations and plantations alongside the river course.

- Under this project, out of a total 24.67 km., fencing work has been fully completed for 2.38 kms and works are in various stages of completion for a stretch of 7.5 kms.
- Under Solid waste removal works, so far, 3374 MT out of a total 50664 MT of debris and 1188 MT out of a total 16826 MT of garbage have been cleared from the banks of the Adyar River.

- For the trash boom systems which are to be installed at 3 suitable locations across the Adyar River, tender has been finalised and LoA issued on 23.09.2019. The booms will be deployed after the monsoon.
- Regarding the work on beautification of bridges being maintained by GCC, work has been completed on all the three bridges (South Buckingham Canal Bridge near Kotturpuram Railway Station, Thiru. Vi. Ka Bridge and Alandur Bridge). 100% of work has been completed on one bridge being maintained by State Highways Department i.e., Maraimalai Adigalar Bridge (Saidapet Bridge). All the bridge beautification works has been fully completed as envisaged.
- The proposed riverfront development work will be taken up after the completion of desilting by PWD and laying of I&D pipelines by CMWSSB.
- Parking lots at 5 locations will be taken up along with park development.
- For the construction of community toilet at 5 locations, re-tender called far with due date on 04.12.2019. The expected date of completion is 9 months from the date of award of contract.

### **3. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB)**

CMWSSB has been entrusted with 14 sub-packages and the status of works is as follows:

- Package I - Thus far 2% of work has been completed. Soil investigation work is completed at Modular STP site and along the alignment of pipeline in bund portion. The work is expected to be completed by 24.3.2021.
- Package II - Kotturpuram Slum Board tenements are to be demolished and reconstructed by TNSCB with new sewerage system and hence the proposal is dropped.
- Package III – Soil investigation work is completed for pumping station site at Radhakrishnapuram slum. Fabrication of steel for the construction of RCC maintenance holes are under progress. The work is expected to be completed by 24.3.2021.
- Package IV - Land has been identified at Todd Hunter Nagar during the joint

inspection conducted along with PWD. PWD has to allocate this land to CMWSSB and the issue of NOC is under progress.

- Package V - Work commenced on 25.09.2019 and 5 % works completed thus far.
- Package VI – The CMDA drawings showing the extent of MGR Nagar and Corporation dump yard along with FMB sketch furnished to PWD on 20.11.2019 for approval.
- Package VII – Due to non-availability of alternate sites during joint inspection with PWD, discussion was held with Special Secretary, Industries Department on 14.11.2019 for allocation of IDPL land to CMWSSB for the construction of sewage pumping station. The Special Secretary informed that a suitable reply will be given upon discussion with the Principal Secretary, Industries Department.
- For packages VIII to XI, tender has been opened on 8.11.2019 and it is under evaluation.
- For Package XII, the proposal has been dropped as an alternative proposal has been approved for linking the outfalls to the pumping station proposed under Nandambakkam UGSS.
- For Package XIII and XIV, proposals has been as an alternate proposal has been included in the Adyar drains project to intercept Nandambakkam drain and construct SPS on the bank of the drain and pump it to Bharathi Salai SPS in Ramapuram UGSS.

#### **4. Commissionerate of Municipal Administration (CMA)**

CMA has been entrusted with the implementation of 4 sub-projects - solid waste removal alongside the river; fencing for a length of 3.32 km; community toilet at 1 location and plantation alongside the river.

- In Anakaputhur Municipality, fencing work is proposed for a total length of 3 km, of which 1.3 km is under encroachment and relocation of 676 PAFs is to be taken up. For the remaining stretch of 1.70 km, work has been commenced in which fencing work has been fully completed for a length of 0.3 km and works are in progress at various stages of works for a length of 1.4 km.

- The construction of community toilet in Anakaputhur Municipality has been fully completed.
- Under solid waste removal, thus far 287 MT out of 522 MT of garbage has been removed. The remaining work will be taken up after the removal of encroachments.
- In Pammal Municipality, PWD has commenced the construction of flood protection wall and hence fencing is not required in this stretch.
- Regarding UGSS, DPR has been completed for the implementation of UGSS at a cost of Rs. 132.35 crore in Pammal Municipality and Rs.78.80 crore in Anakaputhur Municipality. The proposal has been submitted to Government for seeking Administrative Sanction.

#### **5. Directorate of Town Panchayats (DTP):**

DTP has been entrusted with the implementation of 3 sub-projects. The work components consist of solid waste removal alongside the river, fencing for a length of around 14 km, and plantation alongside the river.

- In Kundrathur Town Panchayat, fencing has been completed for a length of 1.17 km and work is in progress for the remaining length. In Thiruneermalai Town Panchayat, fencing works are in various stage of completion for a length of 2.037 km and in Perungalathur Town Panchayat, fencing works are in various stage of completion for a length of 5.006 km.
- For solid waste removal, 1,800 cu.m of legacy waste has been removed out of 8,600 cu.m through bio-mining. The work is expected to be completed by December, 2020.
- Plantation work will be carried out after the completion of fencing works.

#### **6. Directorate of Rural Development and Panchayat Raj (DRD):**

DRD has been entrusted with the implementation of 4 sub-projects - solid waste removal alongside the river; fencing for a length of 35.1 km, community toilet and plantation along the river bank.

- Fencing work is proposed for a total length of 35.17 km within DRD limits, of which works are in various stages for a length of 19.389 km. The entire work is expected to

be completed by December, 2020.

- Under solid waste removal, out of 8275 MT, thus far 4000 MT of accumulated solid waste has been removed and the remaining waste will be removed after the completion of fencing.
- Plantation work will be carried out after the completion of fencing works.

#### **7. Tamil Nadu Slum Clearance Board (TNSCB):**

A total of 9539 Project Affected Families (PAFs) from 27 habitations living alongside of the Adyar River have been identified for Resettlement and Rehabilitation (R&R) under this project. Out of 9539 PAFs identified on the banks of the Adyar River, thus far, 4398 PAFs have been resettled and the remaining 5141 PAFs are to be resettled.

#### **8. Chennai Rivers Restoration Trust:**

CRRT has obtained District Coastal Zone Management Authority and State Coastal Zone Management Authority clearance. A presentation has been made to the MoEF&CC on 19.08.2019, and the Expert Appraisal Committee has recommended the proposal and National Coastal Zone Management Authority has accorded CRZ Clearance dated 22.10.2019

#### **Way Forward:**

The current restoration efforts in Cooum and Adyar rivers cannot be comprehensively completed without restoration of Buckingham Canal and the drains that confluence with the major rivers, such as Virugambakkam Canal, Mambalam drain, Otteri Nallah and Captain Cotton Canal. With this objective, consultants were appointed for the preparation of three DPRs for the restoration of Cooum Drains, Adyar Drains and Buckingham canal (including its associate drains) with the stated objectives of pollution abatement, flood management and to identify the areas where the stretches could be put in use for recreational activities for the community. The preparation of DPRs for these three projects has been completed.

#### **Works Proposed:**

- The Hon'ble Chief Minister of Tamil Nadu, on the floor of the Assembly has made an announcement that a project for the mitigation of sewage outfalls in Adyar,

Buckingham Canal and Cooum river basin in Chennai city will be taken up and implemented by Chennai Rivers Restoration Trust / Chennai Metropolitan Water Supply and Sewerage Board at a cost of Rs. 2371 crore.

- The Government has accorded in-principle approval for a total project cost of Rs. 2371 crore for sewage mitigation in Adyar and Cooum basins as well as Buckingham Canal, out of which Administrative Sanction has been accorded for sanitation projects for Rs.1001 crs under Phase I, vide GO (Ms) No. 107 MA&WS (MW1) Department, dated 20.08.2019.
- The Managing Director, CMWSSB informed that, out of 85 works, NIT has been issued for 36 works (Rs. 357.74 crores) till date and for the remaining works, NIT will be issued in phases before 31.12.2019.

In compliance with the directions of the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi vide Order dated 13.02.2019, the Chief Secretary will continue to conduct monthly meetings to review the progress of the river restoration works and to ensure that Chennai's waterways are restored, in keeping with the stated commitment of the Government of Tamil Nadu.



ENVIRONS CRRT &lt;environs.crrt@gmail.com&gt;

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**Fwd: Case No. OA 556 TO 559 - Submission of Quarterly Report**

---

PO CRRT &lt;po.crrt@gmail.com&gt;

Wed, Jan 27, 2021 at 11:22 AM

To: ENVIRONS CRRT &lt;environs.crrt@gmail.com&gt;

Submission of 4th quarterly report - Principal Bench - Order 13.2.2019

----- Forwarded message -----

From: **PO CRRT** <po.crrt@gmail.com>

Date: Fri, Mar 13, 2020 at 10:53 AM

Subject: Case No. OA 556 TO 559 - Submission of Quarterly Report

To: &lt;ngt.filing@gmail.com&gt;

Cc: Viswanathan S &lt;viswanathan.tnurf@gmail.com&gt;, Santhosh &lt;wrscrrt@gmail.com&gt;, CRRT Jayanth J &lt;social.crrt@gmail.com&gt;, &lt;gandhivrj@gmail.com&gt;

Sir,

As directed by the Hon'ble National Green Tribunal, Principal Bench, New Delhi in its Order dated 13.2.2019, the 4th Quarterly Report and the Minutes of the Meeting conducted by the Chief Secretary of Tamil Nadu regarding the case no. OA 556 to 559 is filed herewith.

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**4 attachments****CS Review Minutes - 28.1.2020.pdf**

315K

**CS Review Minutes-27.12.2019.pdf**

396K

**CS Review Minutes - 28.02.2020.pdf**

385K

**NGT - Final Report.pdf**

444K

## **STATUS OF RIVER RESTORATION PROJECTS IN CHENNAI**

The Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi in its Order dated: 13.02.2019 in Case No. O.A.556 to 559 of 2018 directed that "the Committee headed by Chief Secretary which met on 01.02.2019 may continue to meet fortnightly for a period of next three months and thereafter on monthly basis to review the progress in the matter. Quarterly reports may be furnished to this Tribunal on the progress in the matter by email at ngt.filing@gmail.com". Accordingly, the third quarterly report was submitted by email on 10.12.2019.

Since then, in compliance with the above orders issued by the Hon'ble NGT (PB), New Delhi, the Chief Secretary conducted three monthly review meetings on 27.12.2019, 28.01.2020, 28.02.2020. The minutes of the above meetings are attached herewith and filing of quarterly report is due now.

Restoration of Chennai's major waterways is a top priority for the Government of Tamil Nadu and to this end, river restoration plans of both Cooum and Adyar rivers have been drawn up and are currently under implementation by various line departments such as Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB), Greater Chennai Corporation, Public Works Department (PWD), Commissionerate of Municipal Administration, Directorate of Town Panchayats and Department of Rural Development and Tamil Nadu Slum Clearance Board. Chennai Rivers Restoration Trust is entrusted with coordinating and monitoring the projects. The progress of restoration of the waterways over the last quarter is detailed below:

### **INTEGRATED COOUM RIVER ECO-RESTORATION PROJECT**

Work on the sub-projects has been initiated by the concerned line departments and are under various stages of progress as detailed below:

#### **1. Public Works Department (PWD):**

PWD has been entrusted with the implementation of 9 sub-projects viz., desilting the river to enhance free flow of water during monsoon, formation of baby canal to maintain minimum ecological flow during the non-monsoon season and bio-engineering to stabilize the bunds etc.

- In the three reaches beyond the CRZ stretch i.e., Ch. 9677 m to 27336 m, desilting has and formation of Baby canal has been fully completed. In the Northern arm (Ch. 0 m to Ch. 2040 m), desilting has been completed for a length of 1200 m out of 2040 m.

Desilting for the remaining length will be carried out after the ongoing relocation of Sathiyavani Muthu Nagar slum habitation for a length of 840 m.

- Under this project, within the CRZ stretch i.e., desilting of the Cooum River from River mouth to Napier bridge (Ch. 0 m to Ch. 700 m) and for the continuous river mouth opening, the NIOT has submitted the final report and recommended for capital dredging and curved training wall at an estimated cost of Rs.70 crs. The Proposal has been submitted to Government for seeking Revised Administrative Sanction and the approval is awaited.

### **Greater Chennai Corporation (GCC):**

GCC has been entrusted with the implementation of 12 sub-projects. The work components consist of 4 maintenance walkways, 5 parks, fencing for a length of 23.92 km on both the sides of the river, removal of 81,364 MT of construction and demolition waste and 23,527 MT of Municipal Solid waste alongside the river and installation of booms at 8 locations to collect the floating waste in the river. The status of the work progress is as follows:

#### **i. Removal of Solid Waste:**

The removal of accumulated Solid waste removal works from the banks of the Cooum River has been fully completed.

#### **ii. Installation of Booms:**

Trash boom systems have been deployed across the river at 8 locations viz., near C-in-C bridge, Periyar bridge, Choolaimedu, Metha Nagar, near Central Buckingham Canal, behind Madras Medical College, Quaid-e-Millath bridge and near Napier Bridge and a total quantity of 37206 MT of floating waste has thus far been removed from these booms.

#### **iii. Fencing:**

Under this project, fencing work has been fully completed for a length of 10.44 km out of a total length of 23.92 km and work is under progress in the remaining stretches.

#### **iv. Parks and Walkways:**

Regarding 9 parks & walkways envisaged under this project, the work has been transferred to CRRT for riverine plantation in the entire stretch of the river.

## **2. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB):**

CMWSSB has been entrusted with the implementation of 15 sub-projects. The work components consist of 10 Interception & Diversion systems along the river and 3 Modular Sewage Treatment Plants (STPs) at Chetpet, College Road and Maduravoyal, one 10 MLD sewage treatment plant at Langs Garden and 1 Under Ground Sewerage Scheme (UGSS) at Nerkundram. Work on the 14 sub-projects is in progress as detailed below:

### **i. Interceptor and Diversion pipelines:**

- Package V (Anna Nagar) and Package X (Anna Nagar) – 100% works have been completed and the systems have been commissioned.
- Package II (Chetpet) – 100% of works have been completed. The outfalls will be plugged after commissioning of the STP.
- Package III (Nungambakkam) – 80% of works have been completed. Orders are placed for the procurement of EMI items. Remaining works are under progress. Probable date of completion is 15.03.2020.
- Package IV (Metha Nagar) – Due to slow progress the contract was terminated and retender was invited. Work order was issued on 26.12.2019. Suction well, second lift concreting works have been completed. 4% of works have been completed so far. Scheduled date of completion is 25.12.2020.
- Package VI (Langs Garden Road) - 32% of work completed. Work is under progress. Probable date of completion is 31.12.2020.
- Package VII (South Cooum River Road) – 32% of work has been completed so far. Suction well & Collection well are completed up to parapet. Laying of Pipeline & manhole construction commenced and work in progress. Out of 36 Maintenance holes, 19 nos of maintenance holes have been erected. Scheduled date of completion is 30.09.2020.
- Package VIII (Aminjikai) – 99% of work has been completed thus far and work will be completed before 31.03.2020.
- Package IX (NSK Nagar) – work will be commenced only after the removal of encroachments.

- Package I (Chintadripet) – Work order issued on 26.12.2019. Road cut estimate received from GCC and the cheque processing is under progress. Now, 4% of work has been completed and casting of maintenance holes are under progress. Scheduled date of completion is on 25.12.2020.

## **ii. Modular STPs**

- Regarding Modular STP (1.0 MLD) near College Road, Chetpet, Civil works is consisting of construction of collection tank, MBBR foundation and raft completed, MCC Building in progress. Mechanical and Electrical supplies in progress. Fabrication works for MBBR reaching completion. So far, 47% of work has been completed. The work will be completed by 26.09.2020.
- Regarding Modular STP (1.2 MLD) at Nungambakkam, Civil works consisting of construction of collection tank, MBBR foundation and raft completed. MCC Building to be commenced. Mechanical and Electrical supplies is in progress. MBBR Skid fabrication steel supplied fabrication to be commenced. So far, 34% of work has been completed. The work will be completed by 24.05.2020.
- For Modular STP (0.6 MLD) at Maduravoyal, site clearance and soil investigation works have been completed. Designing for complete fabrication of the plant including collection tank for FSTP is in progress. So far, 4% of work has been completed and will be completed by 18.12.2020.
- For the 10 MLD STP, the design and detailed engineering of process approval completed. Access obtained through GCC for dumping yard and physical work commenced on 27.12.2019. Piling work in progress. Secondary clarifier location shifted due to fouling of existing old pipeline. Pile work recommenced on 24.02.2020, Pile Load test is in progress. Thus far 10% of work has been completed and the scheduled date of completion is 31.05.2021.

## **Under Ground Sewerage System (UGSS):**

- For UGSS Nerkundram, Pipe laying and construction of Sewage Pumping Station works are in Progress. Thus far, 17% of work has been completed and the remaining work is under progress. The work is proposed to be completed by 23.12.2021.

#### **4. Commissioner of Municipal Administration (CMA):**

CMA has been entrusted with the implementation of 2 sub-projects. The work components consist of removal of 1648 MT of solid waste along the river side in Thiruverkadu Municipality and fencing for a length of 10.78 km. Removal of 1648 MT of solid waste has been fully completed.

- In phase I, fencing has been completed for a length of 1.55 km and fencing could not be taken up for a length of 370 m as the boundary falls within the river course and for 430 m as the existing private wall is in good condition. For 100 m, bund to be formed by PWD to complete the fencing work.
- In phase II, fencing has been completed for a length of 1.74 km and fencing could not be taken up for a length of 719 m as the boundary falls within the river course.
- In phase III, fencing has been completed for a length of 1.401 km and fencing could not be taken up for a length of 1500 m as the bund could not be formed due to water logging and for 860 m due to pending court cases (Perumal Koil Street and Shanmuga Nagar) where eviction has to be done. The work is expected to be fully completed by June, 2020.

#### **5. Department of Rural Development (DRD):**

DRD has been entrusted with the implementation of 7 sub-projects. The work components consist of removal of 4582 cubic metre of solid waste alongside the river, fencing for a length of 3.3 km in 3 village panchayats (Seneerkuppam, Adayalampattu and Vanagaram) and plantation at Vanagaram.

- The accumulated solid waste for a quantity of 4582 cu.m has been fully removed from the banks of the Cooum river within the DRD areas viz., Senneerkuppam, Adayalampattu and Vanagaram Village Panchayats.
- The accumulated solid waste has been fully removed from the banks of the Cooum river within the DRD areas viz., Senneerkuppam, Adayalampattu and Vanagaram Village Panchayats.
- Fencing works have been fully completed in 3 Village Panchayats viz., Vanagaram, Adayalampattu and Seneerkuppam.

- Vegetation planting works along the Cooum River banks within DRD limits have been transferred to CRRT.

## **6. Tamil Nadu Slum Clearance Board (TNSCB)**

Tamil Nadu Slum Clearance Board (TNSCB) has been entrusted with the Resettlement & Rehabilitation (R&R) of 14257 identified Project Affected Families (PAFs) and 458 commercial establishments. Thus far, 11,856 tenements have been allotted by TNSCB. To resettle the remaining PAFs, 1899 tenements are ready for allotment now, another 501 tenements will be ready by June, 2020 and remaining 26 tenements will be ready by July, 2020.

Regarding the cancellation of 74 allotment orders issued by TNSCB under Madras Urban Development Programme (MUDP) in slum habitations on the banks of the Cooum River, A & B Notices have been served for 29 families and the remaining 45 notices returned are being served with police assistance. Under ICRERP, various community development activities for resettled families in all 4 scheme areas are being regularly conducted by TNSCB.

## **7. Chennai Rivers Restoration Trust (CRRT):**

CRRT is entrusted with plantation of mangroves, mangrove associates and terrestrial plants alongside the river. The plantation work will be taken after the completion of desilting and stabilization of bunds by PWD and other riverfront development works by GCC.

- As part of the regular community education programmes under ICRERP, World Wetlands Day – 2020 was commemorated and around 130 officials have participated in the Sensitization Programme on River Restoration Initiatives for GCC Officials located along Cooum & Adyar River conducted on 06.02.2020 at Adyar Eco-Park. Thus far, 5877 stakeholders have been sensitized under this Community Education Programme.
- For plantation of riverine species in the banks of Cooum River, bid opened on 24.02.2020 and tender is under evaluation.

## **ADYAR RIVER RESTORATION PROJECT FROM ORIGIN TO MOUTH**

Work on various sub-projects of the Adyar River Restoration Project were initiated by all the line departments in 2018 and are under various stages of progress.

## **1. Public Works Department (PWD)**

PWD has been entrusted with the implementation of 7 sub-projects - desilting and widening the river for 16.18 km; construction of flood protection walls for 1.76 km and river mouth opening and its maintenance. The work progress is detailed below:

- For the package 1, i.e., from River mouth to Thiru. Vi. Ka Bridge, PWD has to get CRZ Clearance. REIA report is under preparation. The study will be completed by the end of March, 2020 and it will be submitted to DCZMA by April, 2020.
- For package 2 i.e., from Thiru. Vi. Ka. bridge to Kotturpuram bridge, desilting works are under progress for a length of 1.5 km. The work is expected to be completed by March, 2020.
- For package 3, i.e., from Kotturpuram bridge to Saidapet Road Bridge, desilting works are under progress for a length of 1.00 km. The work is expected to be completed by March, 2020.
- For package 4, i.e., from Saidapet Road Bridge to Jafferkhanpet Road Bridge, regarding construction of flood protection wall for a length of 580 m and desilting work is in progress for a length of 150 m. The expected date of completion is December, 2020.
- For package 5, i.e., from Jafferkhanpet Road Bridge to Manapakkam Check dam, construction of flood protection wall for a length of 500 m has been fully completed and desilting for a length of 2500 m is completed out of 3960 m. The expected date of completion is December,2020.
- For package 6, i.e., from Thiruneermalai to Outer Ring Road, regarding construction of flood protection wall, work is in nearing completion for a length of 406 m and will be completed by the end of March, 2020. Desilting work for a length of 4700 m is under progress. The expected date of completion is December,2020.
- For package 7 (maintenance of river mouth for 4 consecutive years), CRZ Clearance has been denied by MOEF & CC. NIOT has been approached to take up the multi seasonal study.

## 2. Greater Chennai Corporation (GCC)

GCC has been entrusted with the implementation of 19 sub-projects. The work components consist of 3 maintenance ways, 5 walk ways & cycle tracks, 2 parks, boat jetties at 2 locations, fencing for a length of 24.67 km on both the sides of the river, solid waste removal alongside the river, levelling and compacting the solid waste at dumpsite, booms at 3 locations to collect the floating waste in the river, beautification of bridges (3 nos), community toilets in 5 locations, parking lots at 5 locations and plantations alongside the river course.

- Under this project, out of a total 24.67 km, fencing work has been fully completed for 3.16 km and for 8.4 km length works are in various stages of completion like piling, pile caps, grade beams, columns & RRM. The expected date of completion is December, 2020.
- Under Solid waste removal works, so far, 7913 MT out of a total 50664 MT of debris and 35046 MT out of a total 16826 MT of garbage have been cleared from the banks of the Adyar River.
- For the trash boom systems which are to be installed at 3 suitable locations across the Adyar River, tender has been finalised and LoA issued. Work has been commenced in Jafferkhanpet causeway.
- Regarding the work on beautification of bridges, work has been completed on all the three bridges being maintained by GCC (South Buckingham Canal Bridge near Kotturpuram Railway Station, Thiru. Vi. Ka Bridge and Alandur Bridge) and on one bridge being maintained by State Highways Department i.e., Maraimalai Adigalar Bridge (Saidapet Bridge). All the bridge beautification works have been fully completed.
- All walkways and maintenance walkways have been dropped and CRRT has been requested to take up the work space for riverine vegetation all along the river banks.
- For the Park near Kotturpuram, tender has been floated on 26.01.2020 and bid opened on 27.02.2020.
- For the construction of community toilet at 5 locations, re-tender has been called for.

The expected date of completion is 9 months from the date of award of contract.

- CRRT will take up the development of green belt with native species supporting the biodiversity of Adyar riverine system.
- Plantation of Trees, shrubs, creepers, reeds, mangrove and grass all along the river will be executed by CRRT as they have expertise in riverine plantation.

### **3. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB)**

CMWSSB has been entrusted with 14 sub-packages and the status of works is as follows:

- Package I - Thus far 6% of work has been completed. Collection System for 173 m laid. Maintenance Hole under construction for 9 nos. De-silting work by PWD is under progress in Adyar and Kotturpuram reach and expected to be completed by March, 2020. Hence, I&D works will be commenced from 01.04.2020. The work is expected to be completed by 24.03.2021.
- Package II - Kotturpuram Slum Board tenements are to be demolished and reconstructed by TNSCB with new sewerage system and hence, the proposal is dropped.
- Package III – Thus far 12% of work has been completed. Maintenance hole under construction for 25 nos. Collection System for 115m has been laid so far. Force main laid for a length of 33m. Collection cum suction well (3 m dia) – Raft completed for SPS site at Radhakrishnapuram slum. The work is expected to be completed by 24.03.2021.
- Package IV - Thus far 4% of work has been completed and Design of Equalization tank is under progress. The work is expected to be completed by 30.06.2021.
- Package V - 20% works completed thus far. Collection System for 1100 metres laid so far and 40 Manholes constructed. Work to be completed before the scheduled date of completion of 24.03.2021.
- Package VI – Thus far 4% of work has been completed. Design of Collection system,

Lift station and Pumping main for alternate proposal are completed and work for I&D works are under progress at Jafferkhanpet. The work is expected to be completed by 30.06.2021.

- For Packages VII & XI – Tender to be called for with revised scope of work.

#### **4. Commissionerate of Municipal Administration (CMA)**

CMA has been entrusted with the implementation of 4 sub-projects - solid waste removal alongside the river; fencing for a length of 3.32 km; community toilet at 1 location and plantation alongside the river.

- Under solid waste removal, 522 MT of garbage has been removed and the work is fully completed.
- The construction of community toilet in Anakaputhur Municipality has been fully completed and opened to public.
- In Anakaputhur Municipality, fencing work is proposed for a total length of 3.24 km and has been fully completed for a length of 0.3 km and works are in progress at various stages of works in the remaining stretches.
- Regarding UGSS, DPR has been completed for the implementation of UGSS at a cost of Rs.132.35 crore in Pammal Municipality and Rs.78.80 crore in Anakaputhur Municipality. The proposal is under scrutiny.
- The Vettiver grass plantation with CMA limits will be taken up under the scope of CRRT.

#### **5. Directorate of Town Panchayats (DTP)**

DTP has been entrusted with the implementation of 3 sub-projects. The work components consist of solid waste removal alongside the river, fencing for a length of around 14 km, and plantation alongside the river.

- In Kundrathur Town Panchayat, fencing has been completed fully for a length of 1.20 km. During the resurvey by the Revenue department, it is found that, a length of 1390 m was not taken up for fencing in Kundrathur Town Panchayat and hence this may

also be included at a cost of Rs.2.90 crs which will be utilized from the savings amount available in the fencing works entrusted to Town Panchayats. Accordingly, proposal has been sent to CRRT by the District Administration, Kancheepuram for approval.

- In Thiruneermalai Town Panchayat, out of a total length of 5464 m, fencing work for a length of 1843 m was taken up by Village Panchayat and hence in the remaining length of 3621 m Thiruneermalai Town Panchayat has undertaken the fencing works. In this available stretch, fencing works are in various stage of completion for a length of 2237 m.
- In Perungalathur Town Panchayat, out of a total length of 9316 m, fencing work for a length of 1808 m was taken up by Village Panchayat and hence in the remaining length of 7508 m Perungalathur Town Panchayat has undertaken the fencing works. In this available stretch, fencing works are in various stage of completion for a length of 5630 m.
- For solid waste removal, 2700 cu.m of legacy waste has been removed out of 8600 cu.m through bio-mining. The work is expected to be completed by June, 2020.
- The vegetation planting works with DTP limits will be taken up under the scope of CRRT.

#### **6. Directorate of Rural Development and Panchayat Raj (DRD)**

DRD has been entrusted with the implementation of 4 sub-projects - solid waste removal alongside the river; fencing for a length of 35.1 km, community toilet and plantation along the river bank.

- Fencing work is proposed for a total length of 35.17 km within DRD limits, of which works are in various stages for a length of 23.70 km. The entire work is expected to be completed by December, 2020.
- Under solid waste removal, out of 8275 MT, thus far 7775 MT of accumulated solid waste has been removed and the remaining waste will be removed before March, 2020.

- The vegetation planting works with DRD limits will be taken up under the scope of CRRT

#### **7. Tamil Nadu Slum Clearance Board (TNSCB):**

- Out of a total 9539 Project Affected Families (PAFs) identified on the banks of the Adyar River. Thus far, 4398 PAFs have been resettled and remaining 5141 PAFs have to be resettled.
- In order to resettle the remaining 5141 PAFs, construction of tenements is in various stages of progress across various schemes including reconstruction projects viz., Perumbakkam, Kotturpuram, Thailavaram, Moongil Eri, Subbupillai Thottam & Appavoo Nagar, Visalakshi Ammal Thottam & Pallakkumaniyam.

#### **Way Forward**

#### **Restoration of Buckingham Canal & its associated drains and waterways that drains into Cooum & Adyar Rivers**

The Member Secretary, CRRT informed that in pursuant to the instructions issued by the Chief Secretary, CRRT has submitted the revised proposal for obtaining Administrative Sanction for the Restoration of Buckingham Canal & its associated drains and Drains in Cooum & Adyar Rivers to the Government on 12.02.2020.

Further, the Member Secretary, CRRT has explained that the total outlay for the restoration of Buckingham Canal & its associated drains and waterways that drains into Cooum & Adyar Rivers is Rs.5439.76 crs, a sum of Rs.728.96 crs for the sewage mitigation proposals has already been sanctioned by the Government to CMWSSB vide G.O. (Ms) No.107, MA&WS (MW1) Dept. dated: 20.08.2019 (Rs.1001 crs) and also the tentative Resettlement & Rehabilitation (R&R) cost of Rs.3339.96 crs will be taken exclusively by TNSCB under the proposed 'Tamil Nadu Housing & Habitation Development Project'. Therefore, the proposal for 1370.84 crs has been submitted to the Government for seeking administrative sanction. The Proposal is under the consideration of the Government and the sanction is being awaited.

Accordingly, the announcement has been made in the Budget Speech for the year 2020-2021 in the Legislative Assembly on 14th Feb., 2020 by the Hon'ble Deputy Chief Minister, Government of Tamil Nadu.

**Mitigation of Sewage Outfalls in Adyar & Cooum Drains and Buckingham Canal and its Drains**

The Government has accorded Administrative Sanction for a total project cost of Rs.2371 crore for sanitation projects in Buckingham Canal and its drains, Cooum Drains and Adyar Drains. Under Phase-I, sanction was accorded for Rs.1001 crore vide G.O. (Ms) No.107 MA&WS (MW1) Department, dated: 20.08.2019.

The Managing Director, CMWSSB informed that, out of Rs.1001 crore, Notice Inviting Tender (NIT) issued for 43 works (Rs.644.27 crore). Work order issued for 16 works and NIT will be issued in phases for the remaining works.

In compliance with the directions of the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi vide Order dated 13.02.2019, the Chief Secretary will continue to conduct monthly meetings to review the progress of the river restoration works and to ensure that Chennai's waterways are restored, in keeping with the stated commitment of the Government of Tamil Nadu.



Viswanathan S <viswanathan.tnudf@gmail.com>

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**COVID - 19 - CRRT - Coom and Adyar Restoration Projects - Submission of quarterly report - Reg.**

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Chennai S <mawsmc1@gmail.com>

Sat, May 23, 2020 at 3:24 PM

To: ngt.filing@gmail.com

Cc: ms.crnt@gmail.com, Viswanathan S <viswanathan.tnudf@gmail.com>

Sir ,

Please find the attachment

With regards.

M.A & W.S (M.C.I) Dept.,  
Secretariat, Chennai - 600 009.

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 **202005231750.pdf**  
145K



Municipal Administration and  
Water Supply Department,  
Secretariat,  
Chennai – 600 009.

**Letter No.8754/M.C.1/2020-1 Dated 23.05.2020**

From

Thiru. Harmander Singh, I.A.S.,  
Additional Chief Secretary to Government

To

The Registrar, National Green Tribunal,  
Faridkot House, Copernicus Marg, New Delhi - 110001

Sir,

Sub:- CRRT – Monthly meeting to review the progress of Cooum and Adyar River Restoration Projects – Submission of Quarterly Report in May, 2020 - Regarding.

Ref:- Government of Tamil Nadu, Department of Health and Family Welfare Letter No.02/CS/Health-P/2020, Dated 17.03.2020.

\*\*\*\*\*

I am directed to state that in compliance with the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi Order dated 13.2.2019 in the Case No. O.A. 556 to 559 of 2018, the Committee headed by the Chief Secretary conducts the monthly review on the Cooum and Adyar river restoration projects. The Chief Secretary has conducted the last review meeting on 28.2.2020 and the fourth quarterly report has been filed in Hon'ble NGT by E-mail.

2. Further, in the reference cited the Government of Tamil Nadu issued various measures on social distancing to prevent the spread of COVID – 19 – "Meetings should not be convened unless it is very essential and officers and staff should not be asked to visit Head offices unless it is very essential. If meeting is already planned, it can be rescheduled, unless it is urgent".

3. As preventive measures to safeguard the health of workers from COVID – 19, the restoration works were temporarily stopped during the lockdown period and due to this, the monthly review meeting by Chief Secretary could not be conducted after February 2020. Now, the submission of fifth quarterly report is due by the end of May 2020. In this regard, I am directed to inform that the works will be resumed at the earliest and progress report will be filed in the next quarter.

Yours faithfully

for Additional Chief Secretary to Government

9/10/2020  
23/5/2020



Viswanathan S &lt;viswanathan.tnudf@gmail.com&gt;

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**Chennai Rivers Restoration Trust – Monthly meeting to review the progress of Cooum and Adyar River Restoration Projects – Submission of Quarterly Report in August, 2020 - Regarding**

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**Chennai S** <mawsmc1@gmail.com>

Wed, Aug 26, 2020 at 1:59 PM

To: ngt.filing@gmail.com

Cc: ms.crrt@gmail.com, Viswanathan S &lt;viswanathan.tnudf@gmail.com&gt;

Sir ,

Please find the attachment

With regards.

M.A & W.S (M.C.I) Dept.,  
Secretariat, Chennai - 600 009.**202008261628.pdf**

193K



Municipal Administration and  
Water Supply Department,  
Secretariat,  
Chennai – 600 009.

**Letter No.8754/M.C.1/2020-2, Dated: 26.08.2020**

From  
Thiru. Harmander Singh, I.A.S.,  
Additional Chief Secretary to Government

To  
The Registrar  
National Green Tribunal  
Faridkot House, Copernicus Marg  
New Delhi - 110001.

Sir,

Sub:- Chennai Rivers Restoration Trust – Monthly meeting to review the progress of Cooum and Adyar River Restoration Projects – Submission of Quarterly Report in August, 2020 - Regarding.

Ref:- 1. Government of Tamil Nadu, Department of Health and Family Welfare Letter No.02/CS/Health-P/2020, Dated 17.03.2020.  
2. Government Letter No.8754/M.C.1/2020-1, Dated 23.05.2020

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I am directed to state that in compliance with the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi Order dated 13.2.2019 in the Case No. O.A. 556 to 559 of 2018, the Committee headed by the Chief Secretary has been conducting the monthly review on the Cooum and Adyar river restoration projects. The Chief Secretary has conducted review meeting on 28.2.2020 and the fourth quarterly report has been filed in Hon'ble NGT by E-mail.

2. In view of Covid-19 pandemic, in the reference first cited the Government of Tamil Nadu issued various measures on social distancing to prevent its spread and instructed that "Meetings should not be convened unless it was very essential and officers and staff were asked not to visit Head offices unless it was very essential. Meeting already planned, were rescheduled, unless it was urgent".

P.T.O.

3. In view of the above, due to lockdown announced by GoI, the restoration works were temporarily stopped and the monthly review meetings by Chief Secretary could not be conducted. With reference to the submission of 6<sup>th</sup> quarterly report, due by the end of August 2020, I am directed to inform that the Departments have now directed their contractors to mobilise their teams and resume the works and the progress report will be filed in the next quarter.

Yours faithfully



26/8/20

for Additional Chief Secretary to Government

26/8/20



Viswanathan S &lt;viswanathan.tnudf@gmail.com&gt;

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## Submission of quarterly report - O.A 556 to 559/2018 - Status of River Restoration Projects in Chennai - reg

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PO CRRT &lt;po.crrt@gmail.com&gt;

Mon, Dec 7, 2020 at 3:00 PM

To: ngt.filing@gmail.com

Cc: membersecretary.crrt@gmail.com, Viswanathan S &lt;viswanathan.tnudf@gmail.com&gt;

Sir,

In compliance to the Order of Hon'ble NGT in OA 556 to 559/2018, the seventh quarterly report on the status of river restoration projects in Chennai is submitted herewith for your kind perusal.

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### 2 attachments

**NGT - OA 556 to 555 of 2018 - Quarterly Report - CRRT.pdf**

304K

**CRRT-NGT-CS Review Minutes dt. 19.10.2020.pdf**

290K

## **STATUS OF RIVER RESTORATION PROJECTS IN CHENNAI**

The Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi in its Order dated: 13.02.2019 in Case No. O.A.556 to 559 of 2018 directed that "the Committee headed by Chief Secretary which met on 01.02.2019 may continue to meet fortnightly for a period of next three months and thereafter on monthly basis to review the progress in the matter. Quarterly reports may be furnished to this Tribunal on the progress in the matter by email at ngt.filing@gmail.com". Accordingly, the fourth quarterly report was submitted by email on 13.3.2020. Further, for the submission of fifth quarterly report which was due on May 2020, the Hon'ble NGT was informed that "as preventive measures to safeguard the health of workers from COVID-19, the restoration works were temporarily stopped during the lockdown period and the works will be resumed at the earliest". For the submission of sixth quarterly report which was due on August 2020, the Hon'ble NGT was informed that "due to lockdown announced by Government of India, the monthly review meeting by Chief Secretary could not be conducted and the Departments have directed their contractors to mobilise their teams and resume the works".

Since then, in compliance with the above orders issued by the Hon'ble NGT (PB), New Delhi, the Chief Secretary conducted monthly review meetings on 19.10.2020 and the second monthly review meeting that was scheduled on 25.11.2020 has to be cancelled due to severe Nivar cyclone. The minutes of the above meeting are attached herewith. Filing of seventh quarterly report is due now.

Restoration of Chennai's major waterways is a top priority for the Government of Tamil Nadu and to this end, river restoration plans of both Cooum and Adyar rivers have been drawn up and are currently under implementation by various line departments such as Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB), Greater Chennai Corporation, Public Works Department (PWD), Commissionerate of Municipal Administration, Directorate of Town Panchayats and Department of Rural Development and Tamil Nadu Slum Clearance Board. Chennai Rivers Restoration Trust is entrusted with coordinating and monitoring the projects. The progress of restoration of the waterways over the last quarter is detailed below:

## **INTEGRATED COOUM RIVER ECO-RESTORATION PROJECT**

Work on the sub-projects has been initiated by the concerned line departments and are under various stages of progress as detailed below:

### **1. Public Works Department (PWD):**

PWD has been entrusted with the implementation of 9 sub-projects viz., desilting the river to enhance free flow of water during monsoon, formation of baby canal to maintain minimum ecological flow during the non-monsoon season and bio-engineering to stabilize the bunds etc.

- In the three reaches beyond the CRZ stretch i.e., Ch. 9677 m to 27336 m, desilting and formation of Baby canal has been fully completed. In the Northern arm (Ch. 0 m to Ch. 2040 m), desilting has been completed for a length of 1200 m out of 2040 m. Desilting for the remaining length will be carried out after the ongoing relocation of Sathiyavani Muthu Nagar slum habitation for a length of 840 m.
- Under this project, within the CRZ stretch i.e., from Cooum river mouth to Napier bridge (chainage 0 m - 700 m), for the continuous opening of river mouth and desilting of the river, Administrative Sanction for Rs.70.00 Crores has been obtained vide G.O (Ms) No.76, Municipal Administration & Water Supply (MC-I) Department, dated 31.07.2020. For this work, CRZ Clearance has to be obtained by PWD and identification of consultant for conducting Environment Impact assessment study is underway.

### **Greater Chennai Corporation (GCC):**

GCC has been entrusted with the implementation of 12 sub-projects. The work components consist of fencing for a length of 23.92 km on both the sides of the river, removal of 81,364 MT of construction and demolition waste and 23,527 MT of Municipal Solid waste alongside the river and installation of booms at 8 locations to collect the floating waste in the river. The status of the work progress is as follows:

#### **i. Removal of Solid Waste:**

The removal of accumulated Solid waste removal works from the banks of the Cooum River has been fully completed.

#### **ii. Installation of Booms:**

Trash boom systems have been deployed across the river at 8 locations viz., near C-in-C bridge, Periyar bridge, Choolaimedu, Metha Nagar, near Central Buckingham

Canal, behind Madras Medical College, Quaid-e-Millath bridge and near Napier Bridge.

**iii.Fencing:**

Under this project, fencing work has been fully completed for a length of 11.11 km out of a total length of 23.92 km and work is under progress in the remaining stretches.

**2. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB):**

CMWSSB has been entrusted with the implementation of 15 sub-projects. The work components consist of 10 Interception & Diversion systems along the river and 3 Modular Sewage Treatment Plants (STPs) at Chetpet, College Road and Maduravoyal, one 10 MLD sewage treatment plant at Langs Garden and 1 Under Ground Sewerage Scheme (UGSS) at Nerkundram. Work on the 14 sub-projects is in progress as detailed below:

**i. Interceptor and Diversion pipelines:**

- Package I (Chintadripet) - 42% of work completed. Work is under progress and the scheduled date of completion is 30.06.2021.
- Package II (Chetpet) – 100% of works have been completed. The outfalls will be plugged after commissioning of the STP.
- Package III (Nungambakkam) – 100% of works have been completed. The outfalls will be plugged after commissioning of the STP.
- Package IV (Metha Nagar) – 35% of work completed. Work is under progress and the scheduled date of completion is 31.08.2021
- Package V (Anna Nagar) – 100% works have been completed and the systems have been commissioned.
- Package VI (Langs Garden Road) - 38% of work completed. Work is under progress and the scheduled date of completion is 30.06.2021.
- Package VII (South Cooum River Road) – 39% of work has been completed. Work is under progress and the scheduled date of completion is 30.06.2021.
- Package VIII (Aminjikai) – 100% of works have been completed.

- Package IX (NSK Nagar) – Work could not be taken due to existing encroachment and will be commenced after the removal of encroachments.
- Package X (Anna Nagar) – 100% works have been completed and the systems have been commissioned.

## **ii. Modular STPs**

- For Modular STP (1.0 MLD) near College Road, Chetpet, Civil works are under progress and so far, 75% of work has been completed and the scheduled date of completion is 31.01.2021.
- For Modular STP (1.2 MLD) at Nungambakkam, Civil works are under progress and so far, 50% of work has been completed and the scheduled date of completion is 15.03.2021.
- For Modular STP (0.6 MLD) at Maduravoyal – Work site finalized in February, 2020 and Civil works are under progress and so far, 6% of work has been completed and the scheduled date of completion is 15.09.2021.
- For the 10 MLD STP (TTUF) at Langs Garden - Civil works are under progress and so far, 18% of work has been completed and the scheduled date of completion is 15.03.2022.

## **iii. Under Ground Sewerage System (UGSS):**

- For UGSS Nerkundram, Pipe laying and construction of Sewage Pumping Station works are in progress. 20% of work has been completed and the remaining works are under progress, is scheduled to be completed by 30.04.2022.

## **4. Commissionerate of Municipal Administration (CMA):**

CMA has been entrusted with the implementation of 2 sub-projects. The work components consist of removal of 1648 MT of solid waste along the river side in Thiruverkadu Municipality and fencing for a length of 10.78 km.

- Accumulated solid waste along the banks of the river has been fully removed within Thiruverkadu Municipality limits.

- In phase I, out of 2.45 km, fencing works has been fully completed for a length of 1.65 km. Further fencing could not be taken up for a length of 370 m as the boundary falls within the river course and for 430 m, the existing private wall along the boundary is in good condition.
- In Phase II, out of 2.46 km, fencing works has been fully completed for a length of 1.74 km and in the remaining 719 m stretch, fencing is not required for a length of 629 m as the river is adjoined by the road which is 5 m above the river bed and for 90 m as the boundary falls within the river course.
- In Phase III, out of 5.87 km, fencing works has been completed for a length of 3.05 km and work is under progress for a length of 0.25 km. Fencing could not be taken up for a length of 1.35 km due to water logging near Velappanchavadi Bridge and for a length of 1.06 km due to encroachments. The work is expected to be fully completed by November, 2020. Slum encroachments have to be evicted for a length of 1.06 km and work will be commenced after the relocation of slum habitations i.e. Shanmuga Nagar and Perumal Koil Street, Thiruverkadu.

#### **5. Department of Rural Development (DRD):**

DRD has been entrusted with the implementation of 7 sub-projects. The work components consist of removal of 4582 cubic metre of solid waste alongside the river, fencing for a length of 3.3 km in 3 village panchayats (Seneerkuppam, Adayalampattu and Vanagaram) and plantation at Vanagaram.

- The accumulated solid waste has been fully removed from the banks of the Cooum river within the DRD areas viz., Senneerkuppam, Adayalampattu and Vanagaram Village Panchayats.
- Fencing works have been fully completed in all 3 Village Panchayats viz., Vanagaram, Adayalampattu & Senneerkuppam.

#### **6. Tamil Nadu Slum Clearance Board (TNSCB)**

Tamil Nadu Slum Clearance Board (TNSCB) has been entrusted with the Resettlement & Rehabilitation (R&R) of 14257 identified Project Affected Families (PAFs) and 458 commercial establishments. Thus far, TNSCB has allotted 11826 tenements. To

resettle the remaining 2431 PAFs, 793 tenements are ready for allotment now, another 759 tenements will be ready by December, 2020 and remaining 879 tenements will be ready by March, 2021.

Regarding the cancellation of Madras Urban Development Programme (MUDP) allotments issued by TNSCB in the slum habitations on the banks of the Cooum River, a total of 74 MUDP allotments were identified, of which temporary allotments for NVN Nagar Scheme will be issued to 29 allottees of Moovender Nagar and cancellation process is underway for remaining 45 allotments in 3 slums i.e. Gajalakshmi Colony, Kathiravan Colony & PP Thottam & MM Koil Street.

Cancellation process has been initiated for Bharathipuram or 5 MUDP Allotments and 2 MUDP allotments in East Namasivaypuram, Choolaimedu will be assessed. With respect to the NSK Nagar Slum, a joint survey was carried out by TNSCB & PWD. Only 2 plots are partially extended into Cooum River and the cancellation is not necessary.

#### **7. Chennai Rivers Restoration Trust (CRRT):**

CRRT is entrusted with plantation of mangroves, mangrove associates and terrestrial plants alongside the river. The plantation work will be taken after the completion of desilting and stabilization of bunds by PWD and other riverfront development works by GCC.

- Regarding the Plantation along the banks of the Cooum River for a length of 60 km (both the banks), agreement was executed on 30.09.2020 and work is commenced in the 1<sup>st</sup> week of November, 2020.
- Under Community Education Programme, Regular Community Sensitization Programmes for NGC & Eco-Clubs of Schools, NSS & Enviro Clubs of Colleges, ULBs, PRIs, NGOs, CBOs, RWAs & CSOs have been conducted by CRRT and thus far 6624 stakeholders covered.

## **ADYAR RIVER RESTORATION PROJECT FROM ORIGIN TO MOUTH**

Work on various sub-projects of the Adyar River Restoration Project were initiated by all the line departments in 2018 and are under various stages of progress.

### **1. Public Works Department (PWD)**

PWD has been entrusted with the implementation of 7 sub-projects - desilting and widening the river for 16.18 km; construction of flood protection walls for 1.76 km and river mouth opening and its maintenance. The work progress is detailed below:

- For the package 1, i.e., from River mouth to Thiru. Vi. Ka Bridge, PWD has to get CRZ Clearance. The proposal was presented to DCZMA on 03.02.2020. After attending the compliance of the observations and comments given by DCZMA, the proposal will be placed to SCZMA by this month end.
- For package 2, i.e., from Thiru. Vi. Ka. bridge to Kotturpuram bridge, desilting works are under progress for a length of 2.1 km. The work is expected to be completed by November, 2020.
- For package 3, i.e., from Kotturpuram bridge to Saidapet road bridge, desilting works are under progress for a length of 2.30 km. The work is expected to be completed by November, 2020.
- For package 4, i.e., from Saidapet road bridge to Jafferkhanpet road bridge, flood protection wall is completed for a length of 580 m and works are in progress for 70 m. Desilting work is in progress for a length of 1500 m. The work is expected to be completed by November, 2020.
- For package 5, i.e., from Jafferkhanpet Road bridge to Manapakkam Check dam, flood protection wall is completed for a length of 500 m and desilting for a length of 3334 m is in progress.
- For package 6, i.e., from Thiruneermalai to Outer Ring Road, regarding construction of flood protection wall, work completed for 406 m and desilting work for a length of 2750 m is under progress.
- For package 7 (maintenance of river mouth for 4 consecutive years), CRZ Clearance

was denied by MoEF&CC. Preliminary discussion held with NIOT as directed in CRZ order and the application to CRZ will be submitted after the studies has been completed.

## **2. Greater Chennai Corporation (GCC)**

GCC has been entrusted with the implementation of 19 sub-projects. The work components consist of boat jetties at 2 locations, fencing for a length of 24.67 km on both the sides of the river, solid waste removal alongside the river, levelling and compacting the solid waste at dumpsite, booms at 3 locations to collect the floating waste in the river, beautification of bridges (3 nos), community toilets in 5 locations, parking lots at 5 locations and plantations alongside the river course.

- Under this project, out of a total 24.67 km, fencing work has been fully completed for 6.56 km and for 7.5 km length works are in various stages of completion like piling, pile caps, grade beams, columns & RRM. The expected date of completion is June 2021.
- Under Solid waste removal works, so far, 7914 MT out of a total 50664 MT of debris and 3505 MT out of a total 16826 MT of garbage have been cleared from the banks of the Adyar River. Right now PWD is widening, desilting, levelling and formation of bund in certain stretches. In these stretches, there is no scope for debris and garbage removal at present.
- For the trash boom systems which are to be installed at 3 suitable locations across the Adyar River, work commenced at all the 3 locations viz., Kotturpuram Bridge, Maraimalai Adigalar Bridge & Jafferkhanpet Causeway and will be deployed in January, 2021 after the monsoon.
- Regarding the work on beautification of bridges, work has been completed on all the three bridges being maintained by GCC (South Buckingham Canal Bridge near Kotturpuram Railway Station, Thiru. Vi. Ka Bridge and Alandur Bridge) and on one bridge being maintained by State Highways Department i.e., Maraimalai Adigalar Bridge (Saidapet Bridge). All the bridge beautification works have been fully completed.
- Regarding the Plantation works along the river, this work will be taken up by CRRT

after the completion of bund formation and laying of I&D Pipelines.

- For the Park near Kotturpuram, financial bid opened on 07.10.2020 and the tender is under evaluation.
- For the construction of community toilet at 5 locations, re-tender has been called for. The expected date of completion is 9 months from the date of award of contract.
- Regarding parking lots proposed at 5 locations, the proposal for developing parking lots shall be dropped and CRRT has been requested to develop green belt with native species supporting the biodiversity of Adyar riverine system. Work will be taken up by CRRT after the completion of Bund formation and laying of I&D Pipelines by PWD.

### **3. Chennai Metropolitan Water Supply & Sewerage Board (CMWSSB)**

CMWSSB has been entrusted with 14 sub-packages and the status of works is as follows:

- Package I- Adyar & Kotturpuram – 12% works has been completed so far and the work has been recommenced on 27.07.2020 after lockdown. Work is in progress and the scheduled date of completion is 30.06.2021.
- Package II - Kotturpuram Slum Board tenements are to be demolished and reconstructed by TNSCB with new sewerage system and hence, the proposal is dropped.
- Package III - Nandanam Extension, Turn Bulls Road & Radhakrishnapuram Slum - 16% works has been completed so far. Work was recommenced on 17.08.2020 after lockdown. Work is in progress and the scheduled date of completion is 30.06.2021.
- Package IV – Mambalam Canal - 7% works has been completed so far. Design of Equalization tank is under progress. Work is in progress and the scheduled date of completion is 30.06.2021.
- Package - V - Guindy & Ekkattuthangal - 50% works has been completed thus far. Work has been recommenced on 14.07.2020 after lockdown. Work is in progress and the scheduled date of completion is 30.06.2021.

- Package VI – Samiyar Thottam, Jafferkhanpet & MGR Drain – 14% works has been completed so far. Work has been recommenced on 27.07.2020 after lockdown. Work is in progress and the scheduled date of completion is 30.06.2021.

**Modular STP:**

- Package X - 7% works has been completed so far. Work is in progress and the scheduled date of completion is 31.12.2021.
- Package - VIII – Work order issued on 16.10.2020 and the work will be commenced shortly.
- Package - XI - Alternative proposal to divert the sewage to the existing infrastructure of CMWSSB is under preparation.

**4. Commissionerate of Municipal Administration (CMA)**

CMA has been entrusted with the implementation of 4 sub-projects - solid waste removal alongside the river; fencing for a length of 3.32 km; community toilet at 1 location and plantation alongside the river.

- Under solid waste removal, 522 MT of garbage has been removed and the work is fully completed.
- The construction of community toilet in Anakaputhur Municipality has been fully completed and opened to public.
- In Anakaputhur Municipality, under Phase 1, out of a total length of 1.68 km, fencing completed for a length of 0.3 km and work is in progress for a length of 0.594 km. Fencing could not be taken up for a length of 0.159 km due to encroachments and for 0.627 km due to formation of bund in Patta land. The ongoing work is expected to be completed by December, 2020.
- Under Phase II for a length of 1.56 km, fencing will be taken up after the removal of encroachments (4 slums – 676 PAFs).
- In Pammal Municipality, out of a total length of 0.3 km, PWD has constructed flood protection wall for the entire length of 300 m and hence fencing is not required.

- Regarding UGSS, DPR has been completed for the implementation of UGSS at a cost of Rs.132.35 crore in Pammal Municipality and Rs.78.80 crore in Anakaputhur Municipality. The proposal is under scrutiny of the Government.
- The Vettiver grass plantation with CMA limits will be taken up under the scope of CRRT.

#### **5. Directorate of Town Panchayats (DTP)**

DTP has been entrusted with the implementation of 3 sub-projects. The work components consist of solid waste removal alongside the river, fencing for a length of around 14 km, and plantation alongside the river.

- In Kundrathur Town Panchayat, fencing work has been completed fully for a length of 1.20 km.
- In Thiruneermalai Town Panchayat, out of a total length of 5464 m, fencing work for a length of 1843 m was taken up by Village Panchayat and hence in the remaining length of 3621 m, Thiruneermalai Town Panchayat has undertaken the fencing works. In this available stretch, fencing works are in various stages of completion for a length of 2382 m and the work is expected to be completed by March, 2021.
- In Perungalathur Town Panchayat, out of a total length of 9316 m, fencing work for a length of 1808 m was taken up by Village Panchayat and hence in the remaining length of 7508 m, Perungalathur Town Panchayat has undertaken the fencing works. In this available stretch, fencing works are in various stages of completion for a length of 5468 m and the work is expected to be completed by March, 2021.
- For solid waste removal, 4000 cu.m of legacy waste has been removed out of 8600 cu.m through bio-mining. The work is expected to be completed by March, 2021.
- The vegetation planting works with DTP limits will be taken up under the scope of CRRT.

#### **6. Directorate of Rural Development and Panchayat Raj (DRD)**

DRD has been entrusted with the implementation of 4 sub-projects - solid waste removal alongside the river; fencing for a length of 35.1 km, community toilet and plantation along the river bank.

- Under solid waste removal, 8275 MT of accumulated solid waste along the river banks has been fully removed.
- Fencing work is proposed for a total length of 24.101 km within Kancheepuram District, out of this, work is in various stages of completion for a length of 16.368 km and the scheduled date of completion is May, 2021. For the additional proposal in Kundrathur block for 2.923 km, obtaining Technical Sanction is in progress.
- Fencing work is proposed for a total length of 11.101 km within Chengalpattu District, out of this, work is in various stages of completion for a length of 9.720 km. Scheduled date of completion is May, 2021. For the additional proposal in St. Thomas Mount block for 630 m, obtaining Technical Sanction is in progress.
- For Community toilet, work is under progress and the scheduled date of completion is January 2021.
- The vegetation planting works with DRD limits will be taken up under the scope of CRRT.

#### **7. Tamil Nadu Slum Clearance Board (TNSCB):**

- Out of a total 9539 Project Affected Families (PAFs) identified on the banks of the Adyar River, So far, 4398 PAFs have been resettled and remaining 5141 PAFs have to be resettled. In order to resettle these PAFs, 465 tenements will be ready by Dec. 2021, and another 4676 tenements will be completed by June, 2022.
- In order to resettle the remaining 5141 PAFs, construction of tenements is in various stages of progress in Perumbakkam Scheme.

#### **Way Forward**

#### **Restoration of Buckingham Canal & its associated drains and waterways that drains into Cooum & Adyar Rivers**

The Member Secretary, CRRT informed that CRRT has submitted the proposal for the Restoration of Buckingham Canal & its Drains and Cooum & Adyar Drains for Rs.1370.84 crs to the Government for seeking Administrative Sanction. In G.O (D) No.419,

dated 03.12.2020, Orders have been issued accordingly for Administrative Sanction to the tune of Rs.1281.88 crs.

### **Mitigation of Sewage Outfalls in Adyar & Coom Drains and Buckingham Canal and its Drains**

The Government has accorded Administrative Sanction for a total project cost of Rs.2371 crore for sanitation projects in Buckingham Canal and its drains, Coom Drains and Adyar Drains. Under Phase-I, sanction was accorded for Rs.1001 crore vide G.O. (Ms) No.107 MA&WS (MW1) Department, dated: 20.08.2019.

The Managing Director, CMWSSB informed that, out of Rs.1001 crore, Notice Inviting Tender (NIT) has been called for 46 works (Rs.653.63 crore). Work order has been issued for 30 works (324.09 crore) and NIT will be issued in phases for the remaining works.

In compliance with the directions of the Hon'ble National Green Tribunal (NGT), Principal Bench, New Delhi vide Order dated 13.02.2019, the Chief Secretary will continue to conduct monthly meetings to review the progress of the river restoration works and to ensure that Chennai's waterways are restored, in keeping with the stated commitment of the Government of Tamil Nadu.