



ABSTRACT

Urban Infrastructure Development Scheme for Small and Medium Towns (UIDSSMT) - Nagercoil Municipality Under Ground Sewerage Scheme - Administrative sanction accorded for an estimated cost of Rs. 7604.00 lakhs - Orders - Issued.

Municipal Administration and Water Supply (MA.3) Department

GO (Ms).No.37

Dated: 30.03.2012

Read:

From the Commissioner of Municipal Administration Letter  
Roc.No.43895/2010/JNN2 dated 23.11.2011.

\*\*\*\*\*

ORDER:

In the letter read above the Commissioner of Municipal Administration has stated that the Detailed Project Report (DPR) prepared for providing Underground Sewerage Scheme in Nagercoil Municipality prepared by the Tamil Nadu Water Supply and Drainage Board at a cost of Rs.7604.00 lakh was placed before the 7<sup>th</sup> State Level Sanctioning Committee Meeting of Urban Infrastructure Development Scheme for Small and Medium Towns held on 27.09.2010 and the project was approved for Rs.6556.47 lakhs with the following funding pattern.

Government of India Share (80%)	Rs. 5245.18 lakhs
Government of Tamil Nadu Share (10%)	Rs. 655.65 lakhs
ULB Contribution (10%)	Rs. 655.64 lakhs
Total	Rs.6556.47 lakhs

2. The Commissioner of Municipal Administration has further stated that the minutes of the meeting was forwarded to the Government of India by the Nodal Agency (Tamil Nadu Urban Financial Infrastructure Development Corporation Limited) and the Annual Maintenance Cost is arrived as Rs.142.00 lakhs.

3. The Managing Director, Tamil Nadu Urban Financial Infrastructure Development Corporation limited in his letter dated 29.09.2011 has stated that during the review meeting at Hyderabad on 23.09.2011, the Government of India has agreed in principle to give permission for the 9 projects sanctioned and recommended in the 7<sup>th</sup> State Level Sanctioning Committee meeting held on



09.2010 provided the projects are commenced and expenditures are incurred on before March 2012.

4. In Government D.O. Letter No.24402/MA2/2011, Dated 20.10.2011, the State's Commitment regarding commencing and making an expenditure of 25% of project cost by March 2012 was given to the Government of India.

5. The salient details and funding pattern of the proposed scheme are furnished below:-

Nagercoil Municipality is a Special Grade Municipality with an extent of 24.27 Sq.Km. and the population as per 2001 census is 2, 08,149. At present 18.90 MLD (90 LPCD) of water is being supplied. Necessary investigation work is being taken up by Tamil Nadu Water Supply and Drainage Board to improve the water supply to 135 LPCD.

- Total No.of Wards 51
- No.of wards covered in this project 41
- The balance wards will be covered in the next phase.

The Components of the proposed scheme include as follows.

No. of Zones (Ward No. of 2 to 5, 11 to 15, 17 to 23; 27 to 51)	: One
Collection System ( 200-800 mm dia.RCC pipe and 150-300 mm dia.SW pipe)	: 118.318 KM
Manholes	: 4,794 Nos.
No. of HSCs proposed	: 25,852 Nos
No. of Pumping Stations (SPS)	: One
Submersible Pumpset – 12289 lpm X 50 m – 2 Nos., 24578 lpm X 50 m – 1 No	
Pump room 9m X 5m – 1 No	
D.G.set of 750 KVA – 1 No	

#### PUMPING MAIN (SPS TO STP)

Size of the pipe	: 750 mm DI,
Length	: 2,480 m

#### SEWAGE TREATMENT PLANT

Capacity	: 17.66 mld (Intermediate)
Technology	: Activated Sludge Process (ASP) with Extended Aeration



6. The Commissioner of Municipal Administration has also stated that, the Municipal Commissioner, Nagercoil Municipality, in his letter dated 11.11.2011 has got the in-anticipation approval of the Municipal Council from the Chairman towards requesting the Government grant from Tamil Nadu Urban Financial Infrastructure Development Corporation limited for the Urban Local Body contribution. For the additional amount of Rs. 1047.53 lakhs (Rs.7604.00 lakhs – Rs.6556.47 lakhs) the Municipal Commissioner, Nagercoil approached Tamil Nadu Urban Financial Infrastructure Development Corporation limited for availing loan and got loan sanction for an amount of Rs.200.00 lakhs in letter dated 2.11.2011, initially as a short term loan. In this regard, he has further stated that, the balance amount required for Nagercoil Municipality may be funded through Integrated Urban Development Mission. Necessary proposals for the same would be submitted to the Integrated Urban Development Mission committee. The revised funding pattern is as follows:

(Rs. in Lakhs)		
Details	Original funding pattern	Revised funding pattern
Government of India Share	5245.18	5245.18
Government of Tamil Nadu Share	655.65	655.65
Urban Local Body Contribution	655.64	855.65
Proposed grant from Integrated Urban Development Mission		848.00
<b>Total</b>	<b>6556.47</b>	<b>7604.00</b>

7. In view of the above, the Commissioner of Municipal Administration has requested the Government to accord Administrative Sanction at an estimated cost of Rs.7604.00 lakhs for providing Underground Sewerage Scheme to Nagercoil Municipality under Urban Infrastructure Development Scheme for Small and Medium Towns.

8. The Government after careful examination accept the proposal of Commissioner of Municipal Administration and accord Administrative Sanction of Rs. 7604.00 lakhs for Under Ground Sewerage Scheme in Nagercoil Municipality under Urban Infrastructure Development Scheme for Small and Medium Towns of Jawaharlal Nehru Urban Renewable Mission (JnNURM), subject to the condition that the approval of the State Level Project Approval and Monitoring Committee should be obtained.

9. This order issues with the concurrence of Finance Department vide its U.O. 17967/MAWS/12, dated: 30.03.2012.

(BY ORDER OF THE GOVERNOR)

**SHEELA BALAKRISHNAN**  
**ADDITIONAL CHIEF SECRETARY TO GOVERNMENT**

To

The Chairperson and Managing Director, Tamil Nadu Urban Infrastructure Financial Services Limited (TNUIFSL), Chennai-600 035.

The Commissioner of Municipal Administration, Chepauk, Chennai-600 005.





सत्यमेव जयते

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU  
ENVIRONMENTAL CLEARANCE

V011-11

From:  
DR. S. KALYANASUNDARAM, I.F.S.(Retd.)  
CHAIRMAN  
3rd Floor, Panagal Maaligai,  
No.1, Jeenis Road, Saidapet,  
Chennai-600 015.  
Email – cmantnseiaa@yahoo.co.in

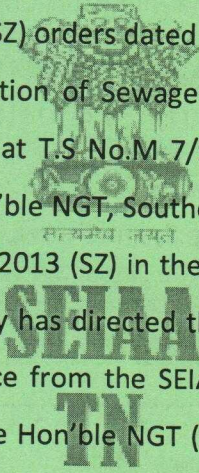
To:  
THE MUNICIPAL COMMISSIONER,  
NAGERCOIL MUNICIPALITY,  
Nagercoil – 629 001.  
Kanyakumari District .  
Email-commr.nagercoil@gmail.com.

Lr.No.SEIAA-TN /F.No-1777/2013/7(h)/STP- NGL/EC- 41 /2016/dated /23.05.2016.

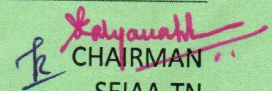
Sir,

Sub: SEIAA - TN – Environmental Clearance – Proposal for construction of Sewage Treatment Plant for underground Sewerage system of 17.66 MLD capacity & Sewage pumping station in Nagercoil Municipality of Kanyakumari District under Category 'B1' and Schedule S.No. 7(h) - Issue of Environmental Clearance - Reg.

This has reference to your communication on the above mentioned subject and the Honorable National Green Tribunal (SZ) orders dated 17.03.2015 in application no. 173 & 175 of 2013. The proposal is for construction of Sewage Pumping Station at S.F No.Q 20/51 and construction of 17.66 of MLD CETP at T.S No.M 7/9.2 of Nagercoil Village, Agastheeswaram Taluk, Kanyakumari District. The Hon'ble NGT, Southern Bench in its order dated 16.09.2013 in the application Nos. 173 and 175 of 2013 (SZ) in the matter of Shri A. Gothandaraman Vs The Commissioner, Nagercoil Municipality has directed the respondent to make an application for the grant of Environmental Clearance from the SEIAA. The Hon'ble NGT (SZ) has related its orders to the one pronounced by the Hon'ble NGT (Principal Bench) in application No. 124 of 2013 in the matter of Shri. Khar Singh Vs. State of Haryana, dt. 12.09.2013.



Jendnt - 12.3.2015

  
CHAIRMAN  
SEIAA-TN  
Page 1 of 18



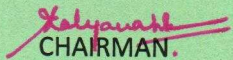


STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU  
ENVIRONMENTAL CLEARANCE

Subsequently, as directed by the Hon'ble NGT, the project proponent, The Municipal Commissioner, Nagercoil Municipality, has applied for Environmental Clearance on 28.09.2013 – for Proposed Pumping Station & Proposed Sewage Treatment Plant (STP).

The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee, Tamilnadu in its 72nd meeting and decided to recommend the project for issue prior environment clearance by SEIAA and SEIAA after careful consideration decided to issue Environmental Clearance in its 175<sup>th</sup> meeting held on 19.05.2016., vide item.no- 175-8, based on the Information submitted by you which are extracted below.

S.No.	F.No.1777/2013	Details of Project
1.	Name of the Project	Proposed underground sewerage project including construction of sewage pumping station and Sewage Treatment Plant (STP) for the Nagercoil Municipality in Kanyakumari District .
2.	Name, address, e-mail & contact number of Proponent	The Municipal Commissioner, Nagercoil Municipality, Nagercoil District. Ph. No.: 7358941288 Email-commr.nagercoil@gmail.com
3.	Name, address, e-mail & contact number of Consultant	ABC Techno Labs India Private Limited No.2, 2nd Street, Thangam Colony, Anna Nagar West, Chennai 600040. Ph. No.: 9566055555 <u>Email-abc@abctechnolab.com.</u>
4.	Accreditation of Consultant (NABET Accreditation) .	Accreditation No. : NABET/EIA/1316/RA001
5.	New Project / Expansion in	New project

  
CHAIRMAN.  
SEIAA-TN  
Page 2 of 18

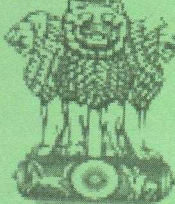
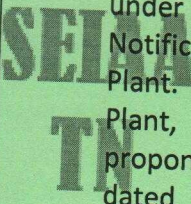





सत्यमेव जयते

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU  
ENVIRONMENTAL CLEARANCE

3

	existing project/ Modernization/ Diversification in existing project.																												
6.	If expansion / Diversification, whether environmental clearance has been obtained for existing project (If yes, Enclose a copy with compliance table)	Not Applicable 																											
7.	Activity schedule in the EIA Notification	 <ul style="list-style-type: none"><li>• Not covered in schedule. However issued ToR under Category B1, of Schedule 7(h) of EIA Notification. Common Effluent Treatment Plant. [Although it is a Sewage Treatment Plant, the application filed by Project proponent based on Hon'ble NGT(SZ) orders dated 17.03.2015 in application no. 173 &amp; 175 of 2013].</li></ul>																											
8.	Area Details	Area allocated for is STP-6 Acres [2.428 Ha]. Area allocated for Pumping station - 0.49 acres [0.198 Ha]. <table border="1"><thead><tr><th>S. no.</th><th>Land use</th><th>Area (sq.mt)</th></tr></thead><tbody><tr><td>1</td><td>Area for STP tanks</td><td>9481.82</td></tr><tr><td>2</td><td>Road Area</td><td>2023.44</td></tr><tr><td>3</td><td>Green belt Area</td><td>8093.75</td></tr><tr><td>4</td><td>Vacant Area</td><td>4532.49</td></tr><tr><td>5</td><td>Sludge storage Area</td><td>40.47</td></tr><tr><td>6</td><td>Area for Buildings</td><td>84.98</td></tr><tr><td>7</td><td>Area for DG Room</td><td>24.28</td></tr><tr><td colspan="2"><b>Total</b></td><td><b>24281.23</b></td></tr></tbody></table>	S. no.	Land use	Area (sq.mt)	1	Area for STP tanks	9481.82	2	Road Area	2023.44	3	Green belt Area	8093.75	4	Vacant Area	4532.49	5	Sludge storage Area	40.47	6	Area for Buildings	84.98	7	Area for DG Room	24.28	<b>Total</b>		<b>24281.23</b>
S. no.	Land use	Area (sq.mt)																											
1	Area for STP tanks	9481.82																											
2	Road Area	2023.44																											
3	Green belt Area	8093.75																											
4	Vacant Area	4532.49																											
5	Sludge storage Area	40.47																											
6	Area for Buildings	84.98																											
7	Area for DG Room	24.28																											
<b>Total</b>		<b>24281.23</b>																											
9.	TOR given by SEAC? (If yes then specify the meeting)	44 <sup>th</sup> SEAC meeting held on 30.09.2013Lr.No.SEIAA-TN/F.No.1777/ToR-161/2013dated 15.10.2013.																											
10.	Estimated capital cost	Rs.76.04 /- Crores																											

  
CHAIRMAN  
SEIAA-TN  
Page 3 of 18





**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU**  
**ENVIRONMENTAL CLEARANCE**

	of the Project (including cost for land, building, plant and machinery separately).	(excluding land cost, as the land given by the State Government)
11.	Location details of the project:	(1). Sewage Treatment Plant site – S.no. M7/9-2, Valampurivilai village, Nagercoil Agastheeswaram Taluk, Kanyakumari District. (2).The Sewage pumping station - Q20/51, Vadiveeswaram Village, Nagercoil, Agastheeswaram Taluk, Kanyakumari District.
12.	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas / inter-State boundaries	Nil within 5 Km radius of site as per amended EIA notification in June 2014.
13.	Production details	Not Applicable as the proposed project is a conveyance of sewage Construction and Operation of Sewage Treatment plant and Sewage Pumping Station at Nagercoil Municipality.
14.	Project details/ manufacturing details	Construction of Common Sewage Treatment Plant project activities – laying of sewer lines and establishing STP with extended aeration system and Sewage pumping station for the Nagercoil municipality for treatment of 17.66 MLD quantity of sewage estimated to be generated.
15.	Rain Water Harvesting (RWH)	<ul style="list-style-type: none"><li>• Size, nos of recharge pits and Quantity - 2m dia x 2.5 m depth,</li><li>• Numbers of recharge pits - 4 numbers.</li><li>• Budgetary allocation (Capital cost and O&amp;M cost)-5.6 lakhs.</li><li>•</li></ul>
16.	Total Water Requirement	<ul style="list-style-type: none"><li>• Fresh water &amp; Source: 5 KLD for STP and 2 KLD for pumping station from Nagercoil Municipality-Domestic purpose.</li></ul>

*Kalyanath*  
CHAIRMAN  
SEIAA-TN  
Page 4 of 18

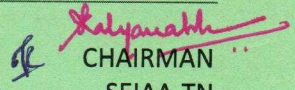




सत्यमेव जयते

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU  
ENVIRONMENTAL CLEARANCE

17.	Storm water drainage	<ul style="list-style-type: none"><li>Natural water drainage pattern: west to east.</li><li>quantity of storm water – 85 KLD during rainy season.</li><li>Size of SWD - 0.30m. x 0.45 m, open drain along the sides of service roads.</li></ul>																				
18.	Sewage generation and Treatment & Disposal	<ul style="list-style-type: none"><li>Amount of sewage generation – 17.66 MLD (Year 2030)</li><li>Proposed treatment for the sewage- Extended Aeration system – STP</li><li>Capacity of the STP-17.66 MLD (Year 2030).</li><li>Treated water will be disposed for irrigation purpose in Thengampudur ayacut at 833 acres.</li></ul>																				
19.	Effluent characteristic	<table border="1"><thead><tr><th>S. No</th><th>Parameters</th><th>Inlet effluent Characteristic</th><th>Outlet effluent Characteristic</th><th>Effluent discharge standards(C PCB)</th></tr></thead><tbody><tr><td>1</td><td>pH</td><td>6.5 – 8.5</td><td>6.50 – 8.50</td><td>6.50 – 8.50</td></tr><tr><td>2</td><td>Suspended Solids</td><td>150 – 200 mg/lit</td><td>&lt; 30 mg/lit</td><td>&lt; 30 mg/lit</td></tr><tr><td>3</td><td>BOD</td><td>200 – 300 mg/lit</td><td>&lt; 20 mg/lit</td><td>&lt; 20 mg/lit</td></tr></tbody></table>	S. No	Parameters	Inlet effluent Characteristic	Outlet effluent Characteristic	Effluent discharge standards(C PCB)	1	pH	6.5 – 8.5	6.50 – 8.50	6.50 – 8.50	2	Suspended Solids	150 – 200 mg/lit	< 30 mg/lit	< 30 mg/lit	3	BOD	200 – 300 mg/lit	< 20 mg/lit	< 20 mg/lit
S. No	Parameters	Inlet effluent Characteristic	Outlet effluent Characteristic	Effluent discharge standards(C PCB)																		
1	pH	6.5 – 8.5	6.50 – 8.50	6.50 – 8.50																		
2	Suspended Solids	150 – 200 mg/lit	< 30 mg/lit	< 30 mg/lit																		
3	BOD	200 – 300 mg/lit	< 20 mg/lit	< 20 mg/lit																		
20.	ETP details (Common STP)	STP of 17.66 MLD capacity is going to be installed.																				

  
CHAIRMAN  
SEIAA-TN  
Page 5 of 18





सत्यमेव जयते

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU  
ENVIRONMENTAL CLEARANCE

		Total length of sewer lines is 118.866 km with 4794 manholes which comprise 3825 brick manholes and 969 RCC manholes.  Sewage collected at the pumping station at Vadiveeswaram Village will be pumped to the treatment system at Valampurivilai Village at 2.48km distance.																											
21.	Note on ETP technology to be used	<b>Activated Sludge Process with Extended Aeration.</b> <table border="1"><thead><tr><th>S.No</th><th>Item description</th><th>No . of units.</th></tr></thead><tbody><tr><td>1</td><td>Screen Wells</td><td>2</td></tr><tr><td>2</td><td>Grit Chamber</td><td>2</td></tr><tr><td>3</td><td>Distribution Chamber</td><td>2</td></tr><tr><td>4</td><td>Aerator</td><td>4</td></tr><tr><td>5</td><td>Clarifier</td><td>2</td></tr><tr><td>6</td><td>Sludge Pump</td><td>1</td></tr><tr><td>7</td><td>Chlorine contact tank</td><td>2</td></tr><tr><td>8</td><td>Sludge Drying Beds</td><td>10</td></tr></tbody></table>	S.No	Item description	No . of units.	1	Screen Wells	2	2	Grit Chamber	2	3	Distribution Chamber	2	4	Aerator	4	5	Clarifier	2	6	Sludge Pump	1	7	Chlorine contact tank	2	8	Sludge Drying Beds	10
S.No	Item description	No . of units.																											
1	Screen Wells	2																											
2	Grit Chamber	2																											
3	Distribution Chamber	2																											
4	Aerator	4																											
5	Clarifier	2																											
6	Sludge Pump	1																											
7	Chlorine contact tank	2																											
8	Sludge Drying Beds	10																											
22.	Disposal of the ETP (or) sludge (If applicable)	Digested sludge will be sold to the Farmers																											
23.	Solid waste Management	STP sludge - 14.834 MT/day																											
24.	Atmospheric Emissions. (Flue gas characteristics SPM, SO <sub>2</sub> , NO <sub>x</sub> , CO; etc.)	DG set -1 No, 1000 KVA.																											

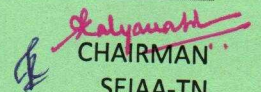




सत्यमेव जयते

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU  
ENVIRONMENTAL CLEARANCE

25.	Stack emission Details:	DG set of 1000 KVA capacity and 30metres stack height.																				
26.	Details of Fuel to be used:	HSD - 0.5 KLD (approx)																				
27.	Energy	<p><u>Power supply:</u></p> <ul style="list-style-type: none"><li>• Existing power requirement: NIL</li><li>• Proposed power requirement:<ul style="list-style-type: none"><li>• 1)PumpingStation-528KW</li><li>• 2)STP - 280 KW</li></ul></li></ul> <p><u>DG sets:</u></p> <ul style="list-style-type: none"><li>• Number and capacity DG sets to be used (proposed)-1000 KVA.</li></ul> <p>Details of the non-conventional renewable energy proposed to be used : No</p>																				
28.	Green Belt Development	• Green belt area (Sq, m.): 8093.746 sq.mt.																				
29.	Environment Management Plan Budgetary Allocation	<table border="1"><thead><tr><th>Sl. No</th><th>Description</th><th>Recurring Cost per annum Rs (Lakhs)</th><th>Capital Cost Rs (Lakhs)</th></tr></thead><tbody><tr><td>1</td><td>Air Pollution Control</td><td>0.5</td><td>2</td></tr><tr><td>2</td><td>Water Pollution Control</td><td>1.5</td><td>5</td></tr><tr><td>3</td><td>Noise Pollution Control</td><td>1</td><td>2</td></tr><tr><td>4</td><td>Environmental Monitoring and Management</td><td>3.5</td><td>-</td></tr></tbody></table>	Sl. No	Description	Recurring Cost per annum Rs (Lakhs)	Capital Cost Rs (Lakhs)	1	Air Pollution Control	0.5	2	2	Water Pollution Control	1.5	5	3	Noise Pollution Control	1	2	4	Environmental Monitoring and Management	3.5	-
Sl. No	Description	Recurring Cost per annum Rs (Lakhs)	Capital Cost Rs (Lakhs)																			
1	Air Pollution Control	0.5	2																			
2	Water Pollution Control	1.5	5																			
3	Noise Pollution Control	1	2																			
4	Environmental Monitoring and Management	3.5	-																			

  
CHAIRMAN  
SEIAA-TN  
Page 7 of 18






सत्यमेव जयते

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY – TAMIL NADU  
ENVIRONMENTAL CLEARANCE

		6	Occupational Health	1.5	-
		7	Green Belt	1	5
		8	Solid waste management	2	5
			Total	11	19
30.	EIA Submitted (If yes then submit the salient features)	<p><u>Period of data collected</u> - 20<sup>th</sup> March 2015- 20<sup>th</sup> June-2015.</p> <p><u>Details of the primary data collection</u> (i.e. location of the Sample collection. Number of visit. etc): 6 locations for Air Sampling, 13 locations for Noise Sampling, 6 locations for Ground Water Sampling, 3 locations for Surface water Sampling, 6 locations for Soil Sampling and 4 locations for Marine ecology Sampling. These samplings were done during March 2015-June 2015.</p> <p><u>Details of the secondary data collection</u> (i.e. Source and year of data): For Hydrogeology studies-Central Ground Water Board Brochure for Kanyakumari District,2008. For Demography-District Primary Census Hand Book – Kanyakumari District, 2011. For Land Use/land Cover studies- District Primary Census Hand Book – Kanyakumari District, 2001. For Rainfall Data – IMD 2009-2013.</p> <p><b>Public Hearing conducted on 19.11.2015.</b></p>			

  
CHAIRMAN  
SEIAA-TN  
Page 8 of 18