

**F.No.11-27/2019-IA-III**  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA.III Section)

Indira Paryavaran Bhawan,  
Jor Bagh Road, New Delhi-3  
Dated: 29<sup>th</sup> January, 2020


To,  
M/s South Water Alliance Pvt. Ltd,  
SPIC Limited,  
Muthiahpuram Post,  
Thoothukudi - 628005, Tamil Nadu

**Sub: Establishing 15 MLD Capacity Desalination Plant at S.No.817/1,817/2, Mullakadu Part-I Village, Taluk & District Thoothukudi, Tamil Nadu - Correction - reg.**

Sir,

This is in continuation to this Ministry's letter of even no., dated 07.01.2020, where point 2(c) of the said letter shall be corrected as "**Para 2(ix) the details of Brine Outfall location shall be read as Latitude: 08°42'.56.26" N & longitude 78°10'6.73" E**" instead of 'Para 2(ix) the details of Brine Outfall location shall be read as Latitude: 08°43'17.05" N & Longitude: 78°09'48.08" E'.

2. All other terms and conditions stipulated in the CRZ clearance dated 6<sup>th</sup> December, 2019 & its amendment dated 7<sup>th</sup> January, 2020 shall remain unchanged.

  
(W. Bharat Singh)  
Director (CRZ)

**Copy to:**

1. The Principal Secretary, Environment & Forests Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai - 600 009
2. The Chairman, Tamil Nadu Coastal Zone Management Authority, Environment & Forests Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai - 600 009
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD cum Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Tamil Nadu Pollution Control Board, No. 76, Anna Salai, Guindy Industrial Estate, Race View Colony, Guindy, Chennai - 600 032
5. The Member Secretary, Tamil Nadu Coastal Zone Management Authority, Department of Environment, No.1, Jeenis Road, Panagal Building, Ground Floor, Saidapet, Chennai - 600 015
6. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), I and II Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai - 34
7. Guard File/ Record File/ Monitoring Cell.

  
(W. Bharat Singh)  
Director (CRZ)

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Government of India  
Ministry of Environment, Forest and Climate Change  
(IA.III Section)

Indira Paryavaran Bhawan,  
Jor Bagh Road, New Delhi-3  
Dated: 7<sup>th</sup> January, 2020

To,  
✓ M/s South Water Alliance Pvt. Ltd,  
SPIC Limited,  
Muthiahpuram Post,  
Thoothukudi - 628005, Tamil Nadu

**Sub: Establishing 15 MLD Capacity Desalination Plant at S.No.817/1,817/2, Mullakadu Part-I Village, Taluk & District Thoothukudi, Tamil Nadu - Corrigendum in CRZ Clearance - reg.**

Sir,

This refers to your request for corrigendum to the CRZ clearance issued by the Ministry vide letter dated 6<sup>th</sup> December, 2019 for the project 'Establishing 15 MLD Capacity Desalination Plant' at S.No.817/1,817/2, Mullakadu Part-I Village, Taluk & District Thoothukudi, Tamil Nadu.

2. Your request was considered by the Ministry and it is to inform that the following corrigendum shall be made in the aforesaid CRZ clearance issued vide this Ministry's letter of even no., dated 06.12.2019, as follows:

- (a) Para 2(i) shall be revised and read as "South Water Alliance (P) Ltd. is a company registered under Companies Act, 2013, which will to the water requirement of fertilizer plant of SPIC Ltd."
- (b) Para 2(iv) shall be read as "Under the proposal, M/s South Water Alliance (P) Ltd (SWAPL) is proposed to establish a desalination Plant of 15 MLD capacity to meet the water supply requirements of M/s Southern Petroleum Industries Corporation Ltd (SPIC) and M/s Green Star Fertilizers Ltd (GSFL)."
- (c) Para 2(ix), the details of Brine Outfall location shall be read as Latitude: 08°43'17.05" N & Longitude: 78°09'48.08" E

3. All other terms and conditions stipulated in the CRZ clearance dated 6<sup>th</sup> December, 2019 shall remain unchanged.

  
(W. Bharat Singh)  
Director (CRZ)

**Copy to:**

1. The Principal Secretary, Environment & Forests Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai - 600 009
2. The Chairman, Tamil Nadu Coastal Zone Management Authority, Environment & Forests Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai - 600 009
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4. The Member Secretary, Tamil Nadu Pollution Control Board, No. 76, Anna Salai, Guindy Industrial Estate, Race View Colony, Guindy, Chennai - 600 032
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**(W. Bharat Singh)**  
**Director (CRZ)**

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Government of India  
Ministry of Environment, Forest and Climate Change  
(IA.III Section)

Indira Paryavaran Bhawan,  
Jor Bagh Road, New Delhi-3  
Dated: 6<sup>th</sup> December, 2019

To,

✓ M/s South Water Alliance Pvt. Ltd,  
SPIC Limited,  
Muthiahpuram Post,  
Thoothukudi - 628005, Tamil Nadu

**Sub: CRZ Clearance for Establishing 15 MLD Capacity Desalination Plant at S.No.817/1,817/2, Mullakadu Part-I Village, Taluk & District Thoothukudi, Tamil Nadu - reg.**

Sir,

This has reference to your online proposal No. IA/TN/CRZ/113559/2019 received in this Ministry for CRZ Clearance of the above mentioned project proposal, in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 221<sup>st</sup> & 226<sup>th</sup> meetings held on 19.08.2019 & 23.10.2019 respectively. The details of the project as per the documents submitted and presented during the aforesaid meeting are as under:

- (i) South Water Alliance (P) Ltd. is a SPV formed by M/s Southern Petrochemical Industries Corpn. Ltd. (SPIC) for operation of the proposed desalination plant, which will cater to the water requirement of fertilizer plant of SPIC Ltd.
- (ii) Presently water requirement is supplied by Tamil Nadu Water Supply and Drainage Board. However, with shrinking water resources, the supply by TWAD is not consistent and in summer months it is completely stopped and the Thoothukudi District administration has advised the industrial consumers to have their own source of water by establishing desalination plants.
- (iii) The Desalination Plant will be located in an extent of 3.00 Ha (out of 10.43.7 Ha of Sagar Sadan Land) more specifically falling in Government assigned land SF No. 817/1 of in Mullakkadu Part-1 Village, Thoothukudi Taluk & District of Tamil Nadu.
- (iv) Under the proposal, M/s South Water Alliance (P) Ltd (SWAPL) is proposed to establish a desalination Plant of 15 MLD capacity to meet the water supply requirements of M/s Southern Petroleum Industries Ltd (SPIC) and M/s Green Star Fertilizers Ltd (GSFL).
- (v) The entire site is located in between 200 m and 500 m zone from the High Tide Line (HTL) and falls in CRZ II area and is about 280 m west of Gulf of Mannar. It falls CRZ Landward of HTL-CRZ II and also 100m CRZ line for River/Creek as per the approved CZMP of Tamil Nadu.
- (vi) The Desalination Plant Site will be of dimension 300 x 100 m and about 1.30 Ha of it is kept for future expansion.



- (vii) The pipelines will be laid below the sea bed at 0.5 m depth.
- (viii) The intake pipeline is of 1215m length, of which 935 m falls in CRZ-IV area, 40 m in CRZ IB area and the remaining 240 m falls in CRZ II. Out of the outfall pipeline of total length of 1978 m, 1035m falls in CRZ-IV area, 40 m in CRZ 1B area and the remaining 240 m falls in CRZ II area. The intake well will be at (-) 3.8 m Chart Datum (CD). The brine outfall will be at (-) 4.6 m CD. Three diffusers each of 0.2 m dia and 1.5m height will be provided at the offshore end/outfall point.
- (ix) Intake Point and the Brine Outfall Locations are as follows:

<i>Item</i>	<i>Distance from shoreline (m)</i>	<i>North Latitude</i>	<i>East Longitude</i>
Sea Water Intake Location	900 m	08°43'17.05"	78°09'48.08
Brine Outfall Location	1200 m	08°43'12.00"	78°09'57.00"

- (x) Gulf of Mannar Biosphere is at 280 m east of the site, whereas, the Gulf of Mannar Marine National Park (GOMMNP) boundary is located at a distance of 11.7 km in the northeast. There is no Wild Life Sanctuary/ Reserved Forests / Elephant Corridor / Hot Spot / Historical Monuments exist within 10 km radius area. Site is not falling in industrially polluted clusters notified by CPCB.
- (xi) The total cost of the project would be Rs.50 Crores.
- (xii) The Tamil Nadu Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. 9442/EC.3/2019-1, dated 13.06.2019.

3. Based on the recommendation of the Tamil Nadu Coastal Zone Management Authority issued vide its letter No. 9442/EC.3/2019-1, dated 13.06.2019, and information submitted as at para no. 2 above and information provided during the presentation before the Expert Appraisal Committee and others, the Ministry of Environment, Forest and Climate Change, in acceptance of the recommendation of the Expert Appraisal Committee (CRZ), hereby accords CRZ Clearance to the above project viz '*Establishing 15 MLD Capacity Desalination Plant at S.No.817/1,817/2, Mullakadu Part-I Village, Taluk & District Thoothukudi, Tamil Nadu*', under the provision of CRZ Notification, 2011 and amendments thereto and circulars issued thereon, and subject to compliance of the following specific and general conditions as under:

**PART A – SPECIFIC CONDITIONS:**

- (i) This clearance shall be subject to obtaining clearance from the Standing Committee of National Board of Wildlife, as may be applicable.
- (ii) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project.
- (iii) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May, 2018, and proposed by the project proponent, an amount of Rs. 1 crore i.e @2% of project Cost) shall be earmarked under Corporate Environment Responsibility (CER) for the activities such as support to local government, schools, sanitation and health including construction of public toilets in the surrounding villages, as per need based assessment carried out. The detailed plan of action focusing on Gulf of Mannar

marine biodiversity conservation and should be developed in consultation with Chief Wildlife Warden of Tamil Nadu. The plan shall be submitted to the concerned agencies within six months of receipt of clearance letter. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

- (iv) No construction (including cemented/concretised parking space for vehicles) shall be made in the NDZ area.
- (v) Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.
- (vi) All conditions/recommendations stipulated by the Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide their letter No. 9442/EC.3/2019-1, dated 13.06.2019, shall strictly be complied with.
- (vii) 'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and / or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (viii) There shall be no dressing or alteration of the sand dunes present in the vicinity and the same shall be kept undisturbed. No alteration of natural features including landscape changes shall be undertaken for beautification, recreation and other such purpose.
- (ix) No permanent labour camp, machinery and material storage shall be allowed in CRZ area.
- (x) Temporary toilets will be provided for all construction labour. Suitable toilet fixtures for water conservation shall be provided. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xi) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (xii) All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by Central/State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea/coastal water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project proponent. The treated waste water shall be reused for landscaping, flushing and / or HVAC cooling purposes etc. within the development. The project proponent should also make alternate arrangement for situation arising due to malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.



- (xiii) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- (xiv) Project Proponent shall ensure regular operation and maintenance of the STP to meet the effluent discharge standards laid down under the rules and should also meet conditions (if any) stipulated in Consent to Establish and Consent to Operate.
- (xv) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the ambient noise standards.
- (xvi) Diesel power generating sets proposed as source of back-up power should conform to rules notified under the Environment (Protection) Act, 1986 for diesel generator sets.
- (xvii) Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.

#### **PART B - GENERAL CONDITIONS:**

- (i) A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority/State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- (ii) A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned regional Office of this Ministry regarding the implementation of the stipulated conditions.
- (iii) The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (iv) Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (v) The above stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991, the EIA Notification, 2006 and the extant CRZ regulations.

- (vi) Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.
- (vii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (viii) The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non compliance.
- (ix) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.
- (x) The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.

4. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

5. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

6. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

7. The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.

8. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of

compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.



**(W. Bharat Singh)**  
Director (CRZ)

Copy to:

1. The Principal Secretary, Environment & Forests Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai - 600 009
2. The Chairman, Tamil Nadu Coastal Zone Management Authority, Environment & Forests Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai - 600 009
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD cum Office Complex, East Arjun Nagar, Delhi - 32
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