

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY-TAMIL NADU
ENVIRONMENTAL CLEARANCE

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CHAIRMAN



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Lr. No.SEIAA-TN/F.No. 4607/EC/1(a)/ 2617 /2015 dated: 31.12.2015

To
Thiru.The Executive Engineer,PWD/WRO
Water Resource Department
Cauvery Basin Divison
Thanjavur-613001

Sir,

Sub: SEIAA - TN –Proposed Sand Quarrying at S.F No. 6(Part) River Coleroon, Neelathanallur Village, Kumbakonam Taluk, Thanjavur District by Thiru.The Executive Engineer,PWD/WRO - Environmental Clearance – Reg.

Ref: 1. Your Application for Environmental Clearance dt. 01.12.2015
2. Minutes of the SEAC held on 29.11.2015, 30.11.2015, 31.12.2015
3. Minutes of the SEIAA meeting held on 31.12.2015.

1. Preamble:-

The proposal is for obtaining environmental clearance for Quarrying 37500 cu.m of Sand in River **Coleroon** at S.F. No.6(Part) Neelathanallur Village, Kumbakonam Taluk, Thanjavur District. The mine lease area is 3.75.0 ha. The proposed mining area is reported as lying in Latitude and Longitude in Topo sheet no 58-M/08 as follows:

Sl. No.	Latitude	Longitude
1	11 ⁰ 02'25"	79 ⁰ 21'10"
2	11 ⁰ 02'28"	79 ⁰ 21'06"
3	11 ⁰ 02'35"	79 ⁰ 21'11"
4	11 ⁰ 02'32"	79 ⁰ 21'15"

No forest land is involved. No head works, bridges and cross masonries are reported within 500 meters around the quarrying site in the river. Mine working will be manual and the ultimate depth will be 1 metre from River natural present bed level for a period of 3 Months. In order to maintain safety and stability of river, a minimum 50 metres (inward) from the bank of the river will be left intact. Water requirement will be 0.3 KLD for drinking purposes which will be sourced through Water Supplier in the nearby area and 0.7 KLD for dust suppression and green belt development which will be sourced through Nearby Tank. The proponent has submitted the mining plan approved by the Assistant Director, Geology and Mining, Thanjavur District vide R.C No.526/G&M/2015 dated: 27.11.2015 The precise area communication has been approved by the District Collector, Thanjavur in

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letter R.C. No. 526/G&M/2015 dated: 02.11.2015. The existing details of river bed, while approving the mining plan prepared by the PWD and scrutinised by the Geology and Mining Department is:

R.L u/s .. 22.53 mts. R.L d/s.. 22.28mts.
R.L at beginning.. 22.50mts. R.L at end 22.33.mts.
Starting KM at 56/0mile., Ending KM at 56/1+50mile.,

It is seen from the data and the document furnished that the project cost is Rs.7.51 lakhs and EMP cost is Rs.0.45 lakhs.

The proponent has furnished sworn affidavits in the Non judicial stamp paper stating the following:

1. No quarries are located within 500m&1Km radius from periphery of my quarry.
2. No habitations/villages are located within 500 meters radius from the periphery of my quarry site.
3. No hindrance will be caused to the people of the habitation located within 500m radius from the periphery of the quarry site.
4. There are no water supply head works, Drinking water, Structural facilities, Well, Bridges, Cross masonry works, any other structure monuments within 500m radius from the periphery of the quarry site.

The proposal was considered and examined by the SEAC based on the project documents furnished and the explanation made before the Committee in its 71st meeting held on 29.12.2015 to 31.12.2015. The SEAC has recommended for the grant of environmental clearance for the said sand quarry project.

The proposal was placed before the SEIAA in its 152nd meeting held on 31.12.2015 and based on the project documents furnished, the Authority has recommended to issue environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to strict compliance of the terms and conditions as follows:-

2. Conditions to be Complied before commencing mining operations:-

- i. The project authorities should advertise with basic details at least in two widely circulated local newspapers, one of which shall be in the vernacular language of the locality concerned, within 7 days of the receipt of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at the web site of the SEIAA, TN at <http://seiaa.tn.gov.in> and a copy of the same is being sent to the Regional Office of Ministry of Environment and Forest, Government of India located at Chennai.
- ii. Quarry lease area should be demarcated on the ground with pucca stone or concrete pillars to show the natural bed level and the depth of mining allowed. Boundary pillars at the interval of 50m each on all the four sides of the quarry site with red flags on every pillar and also in site

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pillars marking the level and depth up to one metre downwards shall be erected before commencement of quarrying.

- iii. The katcha roads between the bank of the river and the mining area shall be formed with locally available bio-degradable materials such as Sugar cane leaves etc.
 - iv. A display Board shall be erected in local vernacular language at each of the following places.
 - At the river banks of mining site
 - In nearest village by which sand transportation will be carried out.
 - At the entrance of the village road from the Main Road (i.e) SH/NH/Union Road etc., The information as Annexed should be given in Bold and visible letters
 - v. A copy of the Environment Clearance letter shall be sent by the proponent to the concerned Panchayat, Town Panchayath/Panchayath union, Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the proponent and also kept at the site, for the general public to see.
 - vi. Provision shall be made for the housing the construction labour nearby the site with all necessary infrastructure and facilities such as fuel for cooking, toilets, safe drinking water, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
 - vii. The proponent shall ensure that First Aid Box is available at site.
- 3.** Taluk level Task Force Committee convened by Tahshildar should inspect the site to satisfy that the pre-conditions as above for commencing the mining operations are satisfactorily followed, and minute their field inspection, as per G.O.Ms.No.135 Industries (MMA-1) Dept. dt. 13.11.2009.
- 4.** Taluk level Task Force is to submit inspection report to the District Collector who is the Chairman of District Level Task Force, who would examine the report and after satisfying himself would give approval to start mining.
- 5. Specific Conditions:**
- i. The environmental clearance will be coterminous with the mine lease period, however limited to a maximum period of 3 Months from the date of issue.
 - ii. The Environmental 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.
 - iii. It shall be ensured that no mining of any type is undertaken within 50m or the distance mentioned in the proposal (whichever is higher) from both the banks (inward) of the river to control and avoid erosion of river banks. The bank of the river shall not be disfigured or lowered for any purpose.

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- iv. The Project Proponent is restricted to use judicious use of minimum number of poclains and not more than two poclains in the project site till the expiry of lease period or excavation of approved quantity whichever is earlier.
- v. Loading and use of poclains, transport of sand shall not be entertained between 7.00 pm to 6.00 am.
- vi. The project proponent is allowed to engage lorries or tippers to transport the sand
- vii. Annual replenishment report certified by an authorised agency shall be submitted. In case the replenishment is low the mining activity/production levels shall accordingly be decreased/stopped.
- viii. Quarrying in river bed should not be done during the days of rain and the days of flood. The total quantity of sand permitted in the Environmental Clearance should not be exceeded in any case within the overall permitted period.
- ix. There shall be no quarrying of sand in any river bed or adjoining area or any other area which is located within 500m radial distances from the location of any bridge, water supply system, infiltration well or pumping installation of any of the local bodies or Central or State Government Department or the Tamil Nadu Water Supply and Drainage Board head works or any area identified for locating water supply and schemes by any of the above – mentioned Government Departments or other bodies.
- x. The ultimate working depth shall be 1 m, from present natural river bed level and the thickness of sand available shall be more than 3m (three meter) in the proposed quarry site.
- xi. The proponent shall take necessary measures to ensure that there shall not be any adverse impacts due to quarrying operation on the nearby human habitations, by way of pollution to the environment.
- xii. It shall be ensured that sand quarrying shall not be carried out below ground water table under any circumstances. If ground water table occurs/intervenes within the permitted depth at one meter, then also quarrying shall be stopped.
- xiii. It shall be ensured that excavation of sand do not disturb or change the underlying soil characteristics of the river bed /basin where quarrying is carried out.
- xiv. It shall be ensured that sand mining do not disturb in any way the turbidity, velocity and flow pattern of the river water.
- xv. Adequate number of pipes across the katcha roads leading to mining area shall be provided to facilitate the normal flow in the streams in the river bed.
- xvi. Streams, if any, passing across the Katcha Road, should not be diverted to form inactive channel.
- xvii. Quarrying below subterranean water level should be avoided as a safe guard against Environmental Contamination and over exploitation of resources.

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- xviii. Quarrying at the concave side of the river should be avoided to prevent bank erosion.
- xix. Mining activity and the compliance of all the above conditions shall be monitored by the Taluk level Task Force once in a month by physical inspections and the status of compliance should be recorded by the committee in the Register maintained at the site.
- xx. At the end of mine closure, the Proponent shall immediately remove all the sheds put up in the quarry and all the equipment in the area at the time of closure of the operation of sand quarry. All the roads /path ways shall be levelled to let the river assume its normal course without any artificial obstruction to the extent possible.
- xxi. The mined out pits should be backfilled where warranted and area should be suitably landscaped to prevent environmental degradation.
- xxii. Transport density study to be done and report to be submitted.
- xxiii. To take up environmental monitoring of the proposed quarry site before, during and after the mining activities including traffic density study, sedimentation, air & flora/fauna environment, involving a reputed Academic Institution.
- xxiv. To ensure that the riverbed after mining is always higher than the bed depth of nearby water bodies so that the river is always a recharge source.
- xxv. Restoration of riparian and in stream habitats, restoration of river geometry causing degradation in upstream, downstream and in the mining area, depletion and prevention of contamination of ground water etc shall be taken care off, by the proponent.
- xxvi. No drilling and blasting operation shall be carried out under any circumstances.
- xxvii. Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring the change of river course, if any and report submitted to the Ministry of Environment and Forests and its Regional Office located at Chennai.
- xxviii. The critical parameters such as RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) and NO_x in the ambient air within the core zone shall be monitored periodically. The monitored data shall be uploaded on the website of the proponent as well as displayed on a display board at the project site. The Circular No.J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in, shall also be referred to in this regard for its compliance.
- xxix. A primary survey of flora and fauna shall be carried out and the data shall be submitted to the Regional Office, Chennai within six months. It shall also be ensured that there is no fauna dependent on the river bed or areas close to mining for its nesting. The project proponent shall take all precautionary measures during quarrying operation for conservation and protection of flora and fauna in the core zone and buffer zone ie., upto the radius of 10 km.

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- xxx. Action plan for conservation of flora and fauna if any shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to this project site shall be effectively implemented.
- xxxi. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Regional Office of the Ministry of Environment and Forests, Chennai.
- xxxii. The Proponent shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/ deviation/ violation of environmental or forest norms / conditions, (ii) Hierarchical system or Administrative order of the Department to deal with environmental issues and ensuring compliance of EC conditions and (iii) System of reporting of non-compliance/violation of environmental norms to the Head of the Department or the State Government or stakeholders.
- xxxiii. The project proponent shall ensure that child labour is not employed in the project as per the sworn affidavit furnished.
- xxxiv. The project proponent shall undertake plantation/afforestation work by planting the native species on all side of the lease area and the approach road as per the sworn affidavit furnished.
- xxxv. The project proponent shall ensure that there are no other quarries within a radius of 1 km. from the boundary of the proposed quarry site and that the combined extent of such quarries does not exceed 5 ha. as per the sworn affidavit furnished.
- xxxvi. The project proponent shall ensure that there are no bridges, culverts, cross masonaries, water head works or any other civil structures within 500 mts., of the proposed quarry site as per the sworn affidavit furnished.
- xxxvii. The project proponent shall ensure that the water requirement for the proposed activity shall be as per the undertaking furnished.
- xxxviii. Rate of Replenishment studies shall be conducted and frequent follow up shall be ensured.
- xxxix. Transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village road.
- xl. The quarrying activity shall be stopped if the entire quantity is quarried even before the expiry of the quarry lease period and the same shall be monitored by the District Authorities.

6. General Conditions:

- i. The project proponent shall obtain Consent to establish before starting any work and Consent to operate after complying to the conditions imposed for adherence before starting from the Tamil Nadu Pollution Control Board and effectively implement all the conditions stipulated therein.

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- ii. No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- iii. No change in the calendar plan including excavation, quantum of mineral sand (minor mineral) should be made.
- iv. A study shall be got carried out through an expert agency like Central Water Commission relating to replenishment of the mineral (siltation study) in this river so as to ensure that the quantity of mineral to be removed does not exceed the siltation to avoid over exploitation of mineral which may adversely affect the dynamics of the river. This study shall be steered by the State Government, based on which the capacity of the mine will be decided by the concerned Department of the State Govt. while granting mining lease.
- v. The project proponent shall ensure that the plan of mining is in conformity with the mine lease conditions and the Rules prescribed in this regard, clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left unworked, distance from the bridges etc.
- vi. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
- vii. The project proponent shall undertake plantation/afforestation work by planting the native species on either side of the approaching katcha path (through which the vehicle fly) between the bund and the main road.
- viii. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- ix. The project proponent shall undertake hydro geological study through reputed institution/organisation within six months. The proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected.
- x. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Chennai, the Central Ground Water Commission and the Regional Director, Central Ground Water Board. If at any stage, it is

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observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out, which includes immediate stopping of mining.

- xi. The project proponent shall obtain necessary prior permission of the competent authorities for drawal of requisite quantity of water (surface water and groundwater), if any, required for the project.
- xii. The proponent shall maintain the village road through which transportation of sand is carried out at its own cost. The roads shall be blacktopped to the extent required.
- xiii. Quarrying should enrich rather than deplete the biodiversity as a corollary to their intervention in the ecology of their area of activity.
- xiv. Access and haul roads to the quarrying area should be restored in a mutually agreeable manner where these are considered unnecessary after extraction has been completed.
- xv. Public movement across the river should not be disturbed due to quarrying activity and vehicular movement.
- xvi. After completion of quarrying of permitted quantity of sand in the river, the natural slope of the river should be maintained without any low-level area in the mined area, by carrying out an approved mine closure plan.
- xvii. EC is given only on the factual records, documents and details furnished by the EE/PWD particularly in respect of
 - Aerial distance of the nearest village is as mentioned in the proposal from the mining site boundary
 - No structure is located within 500 m from the quarry site boundary.
- xviii. It shall be ensured that the distance between two mining blocks should be **more than one kilometer**. Ongoing mining activity should also be taken into account in this regard.
- xix. Mining activity should not cause threat to the bio diversity, destroy river vegetation, cause erosion, pollute water sources etc.
- xx. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e., PM₁₀) and NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- xxi. Baseline study for data on water, soil, air etc., before, during and after the quarrying should be taken up by an academic institution.
- xxii. Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM₁₀) & NO_x should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Chennai and the State Pollution Control Board / Central Pollution Control Board once in six months.

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- xxiii. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- xxiv. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- xxv. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly. The workers shall be provided with personnel protective measures such as masks, gloves, boots etc.
- xxvi. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- xxvii. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Chennai.
- xxviii. The Assistant Engineer exclusively posted to the site should write up and maintain the following registers, in addition to any other records prescribed in the mining lease order.
- Daily Progress Register,
 - Inspection Register
 - Complaints Register
- xxix. The Regional Office of the Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- xxx. The project proponent shall submit six- monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Chennai, the respective Zonal Office of Central Pollution Control Board, SEIAA,TN and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance 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

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the Ministry of Environment and Forests, Chennai, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board.

- xxxii. The environmental statement for each financial year ending 31st 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 environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Chennai by e-mail.
- xxxiii. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.
- xxxiv. This Environmental Clearance does not imply that the other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would be considering the project on merits and be taking decisions independently of the Environmental Clearance
- xxxv. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxxvi. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
- xxxvii. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- xxxviii. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation & Development Rules , 2010 framed under MMDR Act 1957,National Commission for protection of Child Right Rules ,2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.

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- xxxviii. **If the periphery of any other sand quarry is located within 1 km., from the periphery of this site and if the total extent of both the existing quarry and the quarry now cleared for Environmental Clearance exceeds 5 ha. of mining area, then this Environmental Clearance is not valid, since the activity shall become Category ‘B1” project under the EIA Notification, 2006.**
- xxxix. **In the event of the above condition is applicable, then the proponent concerned, is to file a fresh application under EIA Notification, 2006, seeking Environmental Clearance in respect of the cluster. [A cluster of mines is defined wherein more than one sand mining site is located within 1 km., from the periphery of another nearby sand mining site and the total area of these mining sites exceeds 5 ha. Then a EIA study report along with Public Consultation are necessitated].**
- xl. As CSR activity the project proponent shall take care of the needs of a nearby habitation by providing essential amenities.
- xli. Any appeal against this environmental clearance shall lie with the Hon’ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Encl: Model signboard

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Copy to:

1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
2. The Secretary, Department of Environment and Forests, Government of Tamil Nadu, Tamil Nadu.
3. The Secretary, Public Works Department, Government of Tamil Nadu, Tamil Nadu
4. The Secretary, Industries Department, Government of Tamil Nadu, Tamil Nadu
5. The Secretary, Department of Mines and Geology, Government of Tamil Nadu, Tamil Nadu.
6. The Additional Principal Chief Conservator of Forests, Regional Office (SZ), 34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungampakkam, Chennai – 34.
7. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
8. The Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-32
9. The Member Secretary, Central Ground Water Authority, A2, W -3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
10. The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur- 440 001.
11. The District Collector, Thanjavur District
12. The Commissioner of Geology and Mines, Guindy, Chennai-32
13. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
14. Spare.

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