7. Details of fugitive emission and control measures shall be furnished.
8. Air quality modelling study shall be conducted for the CPCB primary air pollutants specified by considering the impact on the proposed plant to the nearby villages.
9. CER proposal shall be furnished as per the MOEF & CC OM dated: 01.05.2018

Agenda No. 122-05:

Proposed stand alone cement grinding (OPC/PPC/PSC) with capacity of 1.6 MTPA plant by M/s. Jasan Infra Private Limited (JIPL) at S.No. 1015/8, 1016/11B, 1017/3B, 4B, 5, 6B, 1019/2A2, 2B1, 2B2 of Kailasapuram Village, Ottapidaram Taluk, Tuticorin District, Tamil Nadu - For Terms of Reference (ToR)

(SIA/TN/IND/20276/2017)

The project proponent has applied for Terms of Reference for the proposed stand alone cement grinding unit 1.6MTPA by M/S. Jasan Infra Private Limited (JIPL) at S.F. No. 1015/8, 1016/11B, 1017/3B, 4B, 5, 6B, 1019/2A2, 2B1, 2B2 of Kailasapuram Village, Ottapidaram taluk, Tuticorin District, Tamil Nadu on 26.10.2017.

The proponent was requested to furnish certain details vide SEIAA Letter dated 28.12.2017. The proponent has furnished reply on 19.04.2018.

The proposal was placed in the 110th SEAC meeting held on 04.05.2018. The proponent made a presentation about the project proposal.

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1. The project proponent could not clarify convincingly the exact land use classification approved by the competent authority.
2. The Air pollution control measures proposed are not adequate.
3. The proponent has not furnished the details of source of water and proper approval from the competent authority.
4. The water balance diagram has not been furnished.
5. The material balance for each product was not furnished.
6. The characteristics of the raw material such as Clinker, Gypsum are not furnished.

In view of the above deficiencies in the project proposal, the project proponent was directed to submit a revised proposal incorporating all relevant details and make a re-presentation before the SEAC.

The aforesaid minutes was communicated to the project proponent vide Lr.No.SEIAA-TN/F.No.6458/2017 dated 12.05.2018. The project proponent has furnished the details on 04.12.2018.

The proposal was placed in the 122nd SEAC Meeting held on 10.12.2018. The project proponent gave a detailed presentation on the salient features of the project and informed that:

1. The project is located at 8°51'13.58"N Latitude, 77°59'38.42"E Longitude.
2. The project proposes to setup 1.6 MTPA capacity Grinding unit and wishes to produce ordinary Pozzolana Cement (OPC), Portland Pozzolana Cement (PPC), Portland Slag Cement (PSC) and Blended Cement with latest technology.

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3. Land Break up detail:

   d. The Plant Structure/ Building area - 15.0 acres

   e. Roads and Parking area - 8.4 acres

   f. Greenbelt area - 11.6 acres

      Total - 35 acres

4. All the raw material such as clinker, gypsum, flyash, slag etc., are used in a prefixed formula and fed through a volumetric feeder in fixed proportion to a bucket elevator/Belt conveyor which in turn feeds a hopper fitted with a volumetric table feeder, feeding to the VRM/ball mill. The VRM/ball mill grind the mix to a homogenous mixture and this mixture is known as cement. This homogenous mixture is then stored in the silos and packed when needed. In between the mill and storing silos there is a dust collector, which plays a crucial role in the prevention of pollution by sucking all the dust produced by the grinding process

   The Cement Grinding Plant comprises the following preparation, processing and handling units:

   a. Clinker unloading, handling, storing and retrieval system.

   b. Gypsum unloading, handling, storing and retrieval system.

   c. Clinker proportioning and feeding

   d. Gypsum storage, proportioning and feeding

   e. Clinker, Gypsum, flyash and slag grinding

   f. Fly ash pneumatic transportation and storming

   g. Fly ash proportioning and feeding

   h. Ground cement handling and storage

   i. Ground cement extraction

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j. Cement packing

k. Packed cement loading in trucks for dispatch

l. Complete ancillary system of water, power and pneumatic system.

5. **Products:**

Production of Ordinary Portland cement (OPC) or Portland Pozzolana Cement (PPC) or Portland Slag Cement (PSC) considering the market analysis of demand and supply and in conjunction with transportation logistics, the annual capacity will be 1.6 MTPA.

6. Land use classification of the project is agricultural land.

The SEAC noted the following:

1. The project proponent has applied for Terms of Reference to SEIAA-TN on 26.10.2018 for the proposed stand alone cement grinding (OPC/PPC/PSC) with capacity of 1.6 MTPA plant by M/s. Jasan Infra Private Limited (JIPL) at S.No. 1015/8, 1016/11B, 1017/3B, 4B, 5, 6B, 1019/2A2, 2B1, 2B2 of Kailasapuram Village, Ottapidaram Taluk, Tuticorin District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 3(b) "Cement Plants of the Schedule to the EIA Notification, 2006.
3. The project proponent submitted / uploaded the additional information to SEIAA-TN on 30.11.2018 & 04.12.2018,

The proponent made a presentation about the project proposal. Based on the presentation made by the proponent and the documents furnished for the project

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the SEAC decided to recommend the proposal for grant of Terms of References (ToR) to SEIAA. The proponent should furnish the details/particulars in respect of the following additional ToR in the EIA report, in addition to the standard ToR (Annexure I):

1. Clear village map, FMB sketch & A Register shall be furnished.
2. Water Balance furnished is incorrect. Hence, the project proponent is requested to revise the water balance as per MoEF&CC guidelines.
3. The proponent has informed that source of water is from local panchayat. Hence, the proponent is requested to furnish the permission from the competent Authority along with the location of drawal of water.
4. The project proponent has to submit the reclassification certificate from unclassified land to Industrial Land for the proposed project from the competent Authority.
5. Details of fugitive emission and control measures shall be furnished.
6. Air modelling study shall be conducted for the CPCB parameters considering the impact on the proposed plant to the nearby village.
7. CER proposal shall be furnished as per the MOEF & CC OM dated: 01.05.2018

Agenda No. 122-06:

Proposed construction of multi-storied residential building complex at S.F.Nos.9/20A, 9/20B, 10/5, 10/6, 10/7-1, 10/7-2, 10/7-3, 11/4, 11/5, 11/6, 11/7A, 11/7B, 11/8, 11/9, 11/10, 11/11, 12/9, 12/11, 12/12, 12/14, 13/2, 13/3, 13/4A, 13/4B, 13/4C, 13/5, 15/2A, 15/2B, 15/4, 15/5, 16/1 of Block 25, Ward-C, Pallavaram Town(Old S.nos. 136/1, 137/4, 137/5, 137/6A, 137/6B1, 137/6B2, 137/7, 137/8, 137/9, 138/2A1, 138/2A3,

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(Annexure I)

3(b): STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR CEMENT PLANTS PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/ EMP REPORT

A. STANDARD TERMS OF REFERENCE (TOR)

1) Executive Summary

2) Introduction

   i. Details of the EIA Consultant including NABET accreditation

   ii. Information about the project proponent

   iii. Importance and benefits of the project

3) Project Description

   i. Cost of project and time of completion.

   ii. Products with capacities for the proposed project.

   iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.

   iv. List of raw materials required and their source along with mode of transportation.

   v. Other chemicals and materials required with quantities and storage capacities

   vi. Details of Emission, effluents, hazardous waste generation and their management.

   vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)

   viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided

   ix. Hazard identification and details of proposed safety systems.

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x. Expansion/modernization proposals:

a. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In addition, status of compliance of Consent to Operate for the ongoing Iexisting operation of the project from SPCB shall be attached with the EIA-EMP report.

b. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.

ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)

iii. Details w.r.t. option analysis for selection of site

iv. Co-ordinates (lat-long) of all four corners of the site.

v. Google map-Earth downloaded of the project site.

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vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.

vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.

viii. Landuse break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area

x. Geological features and Geo-hydrological status of the study area shall be included.

xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)

xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.

xiii. R&R details in respect of land in line with state Government policy

5) Forest and wildlife related issues (if applicable):

i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)

ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving

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forest land more than 40 ha)

iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.

iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.

v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area

vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife

6) Environmental Status

i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.

iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQQM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.

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iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.

v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.

vi. Ground water monitoring at minimum at 8 locations shall be included.

vii. Noise levels monitoring at 8 locations within the study area.

viii. Soil Characteristic as per CPCB guidelines.

ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.

x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.

xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan

i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.

ii. Water Quality modelling - in case of discharge in water body

iii. Impact of the transport of the raw materials and end products on the

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surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.

iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.

v. Details of stack emission and action plan for control of emissions to meet standards.

vi. Measures for fugitive emission control

vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.

viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.

ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.

x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

xi. Total capital cost and recurring cost/annum for environmental pollution

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control measures shall be included.

xii. Action plan for post-project environmental monitoring shall be submitted.

xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers

ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.

iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,

iv. Annual report of heath status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.

ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed

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in the EIA.

iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.

iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

10) Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11) Enterprise Social Commitment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

12) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

13) A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR CEMENT PLANTS

1. Limestone and coal linkage documents along with the status of environmental

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clearance of limestone and coal mines

2. Quantum of production of coal and limestone from coal & limestone mines and the projects they cater to;
3. For large Cement Units, a 3-D view i.e. DEM (Digital Elevation Model) for the area in 10 km radius from the proposal site.
4. Present land use shall be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10 Km radius area from proposed site. The same shall be used for land used/land-cover mapping of the area.
5. If the raw materials used have trace elements, an environment management plan shall also be included.
6. Plan for the implementation of the recommendations made for the cement plants in the CREP guidelines must be prepared.
7. Energy consumption per ton of clinker and cement grinding
8. Provision of waste heat recovery boiler
9. Arrangement for use of hazardous waste

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(Annexure II)

6(b):STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR ISOLATED STORAGE & HANDLING OF HAZARDOUS CHEMICALS (AS PER THRESHOLD PLANNING QUANTITY INDICATED IN COLUMN 3 OF SCHEDULE 2 & 3 OF MSIHC RULES 1989 AMENDED 2000) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TERMS OF REFERENCE

1) Executive Summary

2) Introduction

   i. Details of the EIA Consultant including NABET accreditation

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