

Minutes of the 117th SEAC Meeting held on 27th July 2018

<p>117- F. 371/2010</p>	<p>For the Construction Of KGISL Institute Of Technology, Men's Hostel & Bank Building Along With The Existing Buildings By M/S. KGISL Trust At S.F.No. 353/1, 2, 354/1, 356/3A, 357/1D PT, 358/2A, 2C, 2 D, 359/1A, 1B, 360/1C, 1D PT, 361/3A, 362/1B PT,1C, 2A, 2B, 363/1B, 2, 3, 365/1A, 2, 366/1A, 1A1A2, 366/1A2, 1B & 372/2, Saravanampatti Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu- Activity 8(a) & Category "B2"- Building & Construction Projects – Term of References (ToR) to be issued under violation notification dated: 08.03.2018 of MoEF & CC – Regarding.</p>
	<p>The Project Proponent M/s. KGISL Trust has applied for Environment Clearance for the construction of additional Buildings for Engineering College, Hostel & Bank Building (Commercial Building) in the existing campus with a total built up area of 108209.92 Sq.m which includes existing building under Education facility, Medical Transcription and software park at S.F.No. 353/1, 2, 354/1, 356/3A, 357/1D pt, 358/2A, 2C, 2 D, 359/1A, 1B, 360/1C, 1D pt, 361/3A, 362/1B pt,1C, 2A, 2B, 363/1B, 2, 3, 365/1A, 2, 366/1A, 1A1A2, 366/1A2, 1B & 372/2, Saravanampatti Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu on 22.07.2010. The proponent has already obtained EC for the existing buildings for construction of Educational facility, Medical Transcription and software park in 2008.</p> <p>As per the MoEF notification in the year 2014, institutions are exempted from prior environmental clearance. Though the current project of constructing an Engineering College falls under institution category, it attracts EC because the construction work started already in the year 2010 i.e prior to 2014 notification.</p> <p>From the perusal of the office records, project proposal and the presentation made by the proponent, the following points were noted:</p> <ol style="list-style-type: none"> 1. The proponent has already obtained Environmental Clearance from SEIAA-TN for the construction of educational facility; medical transcription and Software Park for a total built up area of 72174.13 sq.m vide Lr. No. SEIAA/TN/EC/8(a)/002/F-003/2008 dated: 24.07.2008.

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	<ol style="list-style-type: none">2. While scrutinizing, it was found from the photographs furnished by the proponent, which shows that the construction activity was started without prior Environmental Clearance. Hence it was considered as violation of EIA Notification, 2006.3. The proponent was requested to furnish the 'Letter of Commitment and Expression of Apology' vide SEIAA letter dated: 04.04. 2013.4. As per the guidelines issued for dealing with the projects involving violation vide MoEF & CC OM dated: 12.12.2012 & 27.06.2013, the project proponent furnished 'Letter of Commitment and Expression of Apology' vide letter dated: 03.05.2013 and also resolved in the form of a formal resolution assuring that such violation will not be repeated.5. The same was sent to the State Government for initiating credible action on the said violation by invoking powers under Section 19 of the Environment (Protection) Act, 1986.6. The State Government forwarded the same to the Tamil Nadu Pollution Control Board (TNPCB) for initiating legal action on the violation under the EIA Notification, 2006 in the residential project. TNPCB filed a case in Judicial Magistrate Court case No. 202/2017 on 07.03.2014.7. The Proponent was informed vide SEIAA Letter No. SEIAA-TN/F.371/2010 dated 12.11.2014 that the project proposal is included in the list of cases involving violations of Environment (P) Act, 1986 and that the project stands delisted in the lists of proposals under process in SEIAA-TN.8. As per the MoEF & CC Notification dated: 14.03.2017, stated that the cases of violation will be dealt strictly as per the procedures specified in the following manner "In case the project or activities requiring prior EC under EIA Notification, 2006 from the concerned regulatory authority are brought for Environmental Clearance after starting the construction work or have undertaken expansion, modernization and change in
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	<p>product mix without prior EC, these projects shall be treated as cases of violations and in such cases, even Category B projects which are granted EC by the SEIAA shall be appraised for grant of EC only by the EAC and Environmental Clearance will be granted at Central level only". Accordingly, the proponent was addressed to submit the proposal to MoEF & CC for EC under violation category vide SEIAA letter dated: 19.06.2017.</p> <p>9. Then, the proponent has filed the application to MoEF & CC under violation on 29.07.2017.</p> <p>10. Subsequently, MoEF&CC issued another notification S.O.1030 (E) dated 08.03.2018, stating that "the cases of violations projects or activities covered under category A of the Schedule to the EIA Notification, 2006, including expansion and modernization of existing projects or activities and change in product mix, shall be appraised for grant of Environmental Clearance by the EAC in the Ministry and the Environmental Clearance shall be granted at Central level, and for category B projects, the appraisal and approval thereof shall vest with the State or Union territory level Expert Appraisal Committees and State or Union territory Environment Impact Assessment Authorities in different States and Union territories, constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986".</p> <p>11. The application was transferred from MoEF & CC to SEIAA-TN on 28.03.2018.</p> <p>12. They are now adding an area of 36035.79 sq.m in the form of engineering college, hostel & Bank building.</p> <p>13. The proponent has now asked for EC for a total area of 108209.92 Sq.m to cover the following components</p> <ul style="list-style-type: none">i. Engineering Collegeii. Hosteliii. Bank Buildingiv. Educational facility
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	<p>v. Medical transcription</p> <p>vi. Software Park</p> <p>14. The project under expansion for an area of 36035.79 sq.m was designated as project under violation.</p> <p>The proposal was placed in the 112th SEAC meeting held on 29.05.2018. The proponent made a presentation about the project proposal.</p> <p>The Committee noted that the project proposal is to be appraised under violation category as per MoEF & CC notification S.O. 1030 (E) dated: 08.03.2018. Since the project has been considered under violation category, the Committee felt that it is necessary to make an on the spot assessment of the status of the project execution for deciding the further course of action.</p> <p>The technical team inspected the project site on 26.06.2018 and submitted the report to SEAC on 27.07.2018. The report of the technical team was placed before the 117th SEAC meeting held on 27.07.2018.</p> <p>A summary of the review of the checklist and the actual field inspection was carried out on 25.06.2018 and the observation of technical team is as follows:</p> <p>(i) The Technical Team learnt that the "violation" attributed to the project is that the construction activity was started before getting the Environmental Clearance.</p> <p>(ii) The proponent has obtained Environmental clearance from SEIAA-TN for the construction of Educational facility, Medical Transcription and software park with build up area of 72174 sq. m vide EC.No.SEIAA/TN/EC/8(a)/002/F-003/2008 Dated 24.07.2008.</p> <p>(iii) The proponent has submitted the certificate of Compliance report from Regional officer, MoEF Bangalore. The technical team observed that this compliance report is not covered the compliance status for the conditions imposed in the operation phase. Hence the technical team directed the proponent to obtain the updated certificate of compliance from the</p>
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	<p>Regional office, MoEF&CC.</p>
iv)	<p>Stage of construction:</p> <p>The proponent informed that construction of existing and expansion of all facilities (consisting of bank building, Engineering college and Hostel) were completed in full shape and the project is under operation.</p>
v)	<p>Water Supply:</p> <p>The proponent informed that the fresh water of 280 KLD is being supplied by TWAD Board.</p> <p>It is also informed that, as per the earlier EC the total water requirement was stated to be 523 KLD. In arriving at this figure the green belt water requirement of 214 KLD has been added by mistake. If 214 KLD is deducted, then 523 KLD becomes 309 KLD which is the correct present water requirement.</p> <p>After expansion, water requirement of 309 KLD will get increased to 377 KLD.</p> <p>Due to recycling of treated sewage of entire flushing requirement the fresh water requirement reduced to 280 KLD.</p>
vi)	<p>Sewage Generation, Treatment and Disposal:</p> <p>a. The total sewage generation of 258KLD is treated through the STP provided with capacity of 300KLD and during inspection it was noticed that the STP was under operation. The proponent informed that the treated sewage is utilized for gardening (4.2 Ha is allocated for green belt (147 KLD treated sewage can be utilised for green belt with area of 4.2 Ha)).</p> <p>b. The technical team observed that there is 67 KLD of excess treated sewage remaining to be managed. The proponent informed that the excess treated sewage is being utilized for avenue plantation on the road sides.</p> <p>c. The technical team directed the proponent to furnish the</p>

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	<p>suitable proposal for the disposal of excess treated sewage of 67 KLD along with the EIA report .</p>
	<p>vii) Green Belt:</p> <ol style="list-style-type: none">The proponent has earmarked the green belt area as 42,651.2 sq.m (28%). Totally 1810 trees of approved species should be planted. Only around 1050 trees have been planted already and out of which 250 trees are exotic. Considering all this, the proponent should plant 700 trees of indigenous species in addition to the existing green belt developed by the proponent.The technical team directed the proponent to earmark the greenbelt area with dimension and DGPS coordinates for the green belt area.
	<p>iii) Solid Waste Management:</p> <ol style="list-style-type: none">The proponent has installed OWC to treat and dispose the biodegradable organic waste generated from the campus.The technical team directed the proponent to take necessary steps to ban the “use and throw away plastic” in their campus as per TamilNadu Government G.O.(Ms) No.84. Dated:25.06.2018.
	<p>(ix) DG Sets:</p> <ol style="list-style-type: none">The proponent has installed DG sets of 1500 KVA -3 Nos. 500KVA -one number and 380KVA - one number. The heights of common stack provided to 3 D.G sets with a capacity of 1500 KVA and individual stack provided for 500 KVA are adequate in height .The stack height for 380 KVA was not adequate as per CPCB norms. Further, no acoustic enclosure is provided for the 380 KVA D.G set. Hence the technical team directed the proponent to provide adequate

	<p>stack height and acoustic enclosure as per norms for the D.G set with capacity of 380 KVA.</p> <p>b. The proponent informed that diesel is stored in the project premises, and necessary permission was obtained from Petroleum and Safety Organization, Govt. Of India.</p> <p>(x) Rain water harvesting:</p> <p>a. The proponent has provided 2no.s of 200m³ capacity of rainwater sump. No adequate rainwater harvesting pits were provided by the proponent. The technical team has directed the proponent to provide adequate number of rainwater harvesting pits with approved dimension as per norms and submit the details along with EIA report.</p> <p>b. The proponent informed that the excess storm water is disposed through external storm water drain into Vilankurachi Pallam.</p> <p>c. The technical team suggested that the existing pond should be hydraulically utilised to capture the excess runoff so that rain water runoff harvested increases substantially.</p> <p>(xi) CSR Activity:</p> <p>The technical team instructed the proponent to furnish the details about the CSR activities of Existing and proposed project.</p> <p>(xii) E- waste details:</p> <p>The technical team instructed the proponent to furnish the details about the e-waste generation and disposal.</p> <p>(xiii) Hazardous waste details:</p> <p>The technical team instructed the proponent to furnish the details about the Hazardous waste such as used oil from D.G sets etc. generated and disposed.</p> <p>(xiv) The proponent was asked to furnish the updated information with respect to the following checklist provisions:</p> <p>i. Site plan showing all details</p> <p>ii. Traffic NOC/Air port NoC</p>
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- iii. Green belt area
- iv. Environmental Management Cell
- v. Certificate for structural safety from Anna University/IIT/other reputed govt. Institutions.
- vi. Adequacy report of STP from Anna University/IIT/other reputed govt. Institutions.

The proponent was asked to furnish the particulars as discussed above and as per the check list already provided, to the Technical Team on 06.07.2018. Accordingly the proponent has submitted the revised check list with enclosures on 17.07.2018

The proponent submitted the revised check list with enclosures on 17.07.2018. The annexure contains the extract of the revised checklist. The revised checklist contains old and supplementary data/information.

From the perusal of the original proposal of the proponent, initial checklist submitted by the proponent, site inspection of the construction site, revised checklist submitted by the proponent, the technical team makes the following observation:

1. The proponent has made a procedural violation in the sense that the proponent has started construction of the Residential project before getting the Environmental Clearance from the competent authority.
2. When the technical team assessed whether the proponent has actually followed in the past, the normal condition stipulated in the EC for all conditions, pre-construction & construction stages, the team is of the opinion that the proponent has not violated any conditions that are verifiable now. But there are certain conditions such as possible air pollution, noise pollution and soil pollution that could have been caused at the time of construction which cannot be verified now.
3. The technical team recommends the proposal to SEAC to favourably

process for recommendation to SEIAA for the grant of ToR. However, it is to be pointed out that this proposal is not a “regular” project seeking EC but a special project to be covered under “violation category”. There are guidelines set forth by MoEF & CC on how to proceed with such cases. The SEAC may decide further course of action in the light of the MoEF & CC notification for violation cases.

4. The proponent should complete the following activities/submit necessary documents by the time of submitting the EIA Report:

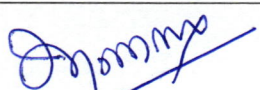
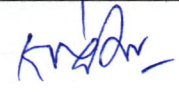
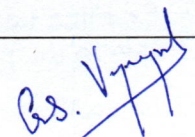
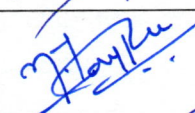
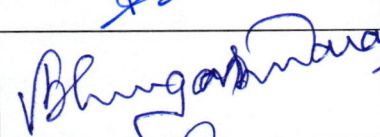
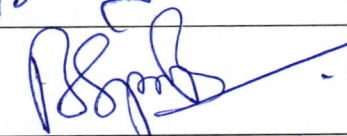
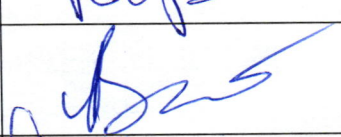
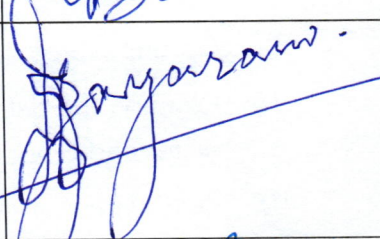
- a) The proponent should obtain the updated certificate of compliance from the Regional office, MoEF&CC for the existing EC issued by SEIAA-TN
- b) The proponent should furnish the suitable proposal for the disposal of excess treated sewage of 67 KLD.
- c) The proponent should earmark the greenbelt area with dimension and DGPS coordinates for the green belt area.
- d) The proponent should plant 700 trees of indigenous species as listed below and submit the necessary photographs for the same.

Pongamia glabra	Pungan
Thespesia populnea	Poovarasu
Ficus religiosa	Arasu
Azadirachta indica	Vembu
Terminalia arjuna	Neermarudhu
Michelia champaca	Shenbagam
Syzygium cumini	Naval
Madhuca longifolia	Ilippai
Mimusops elengi	Magilam
Swietenia macrophylla	Mahogany

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	<p>e) The proponent should provide adequate stack height and acoustic enclosure as per CPCB norms for the D.G set with capacity 380 KVA.</p> <p>f) The proponent should take necessary steps to ban the “use and through away plastic” in their campus as per TamilNadu Government G.O.(Ms) No.84. Dated:25.06.2018.</p> <p>g) The proponent should provide adequate number of rainwater harvesting pits with approved dimension as per norms.</p> <p>h) It is suggested that the existing pond should be hydraulically utilised to capture the excess runoff so that rain water runoff harvested increases substantially</p> <p>i) The proponent should furnish the detailed about the CSR/CER activities along with the EIA report for the existing and proposed.</p> <p>j) the proponent to furnish the details about the Hazardous waste such as used oil from D.G sets etc. generated and disposed.</p> <p>k) The proponent should furnish the details about the e-waste generation and disposal details.</p> <p>l) The proponent should furnish the details about the Hazardous waste such as used oil from D.G sets etc. generated and disposed.</p> <p>m) The proponent should furnish the following documents/certificates along with EIA report:</p> <ol style="list-style-type: none"> i. Site plan showing all details ii. Environmental Management Cell with detail of members and their qualifications & duty allocated for them. iii. Certificate for structural safety from Anna University/IIT/other reputed govt. Institutions. iv. Adequacy report of STP from Anna
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<p align="center">University/IIT/other reputed govt. Institutions.</p> <p>The SEAC accepted the recommendations of the technical team and decided to recommend the proposal to SEIAA for considering issue of ToR in 3 parts as annexed for conducting the EIA study for the project of Construction Of KGISL Institute Of Technology, Men's Hostel & Bank Building Along With The Existing Buildings By M/S. KGISL Trust At S.F.No. 353/1, 2, 354/1, 356/3A, 357/1D PT, 358/2A, 2C, 2 D, 359/1A, 1B, 360/1C, 1D PT, 361/3A, 362/1B PT, 1C, 2A, 2B, 363/1B, 2, 3, 365/1A, 2, 366/1A, 1A1A2, 366/1A2, 1B & 372/2, Saravanampatti Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.</p>			
S.No	Name	Designation	Signature
1	Dr. K. Thanasekaran	Member	
2	Dr.K.Valivittan	Member	
3	Dr.Indumathi M. Nambi	Member	
4	Dr. G. S. Vijayalakshmi	Member	
5	Dr. M. Jayaprakash	Member	
6	Shri V. Shanmugasundaram	Member	
7	Shri B. Sugirtharaj Koilpillai	Member	
8	Shri. P. Balamadeswaran	Co-opt Member	
9	Shri. M.S. Jayaram	Co-opt Member	

ANNEXURE

TERMS OF REFERENCE (TOR) FOR THE PURPOSE OF PREPARING THE EIA/EMP FOR THE CONSTRUCTION OF RESIDENTIAL COMPLEX AT S.F.NO. 140/1A, 2A, 2B, 141/1, 141/2, 145/2, 146/3B1, 151/1 & 151/2, PERUNGUDI VILLAGE, TAMBARAM TALUK, KANCHEEPURAM DISTRICT, TAMIL NADU UNDER THE CATEGORY OF VIOLATION AS PER THE MOEF & CC NOTIFICATION.

Part-I

STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR CONSTRUCTION PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

- 1) Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
- 2) Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.
- 3) Examine baseline environmental quality along with projected incremental load due to the project.
- 4) Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
- 5) Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project
- 6) Submit the details of the trees to be felled for the project.
- 7) Submit the present land use and permission required for any conversion such as forest, agriculture etc.
- 8) Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
- 9) Ground water classification as per the Central Ground Water Authority.
- 10) Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
- 11) Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
- 12) Examine soil characteristics and depth of ground water table for rainwater harvesting.

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- 13) Examine details of solid waste generation treatment and its disposal.
- 14) Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
- 15) DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
- 16) Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
- 17) A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
- 17) Examine the details of transport of materials for construction which should include source and availability.
- 18) Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
- 19) Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
- 20) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 21) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 22) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".

MEMBER SECRETARY, SEAC


CHAIRMAN, SEAC

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PART-II

Additional TOR specified by the SEAC to deal with
the violation aspects of the construction projects

SECTION A

As per the MoEF & CC Notification S.O. 1030 (E) dated: 08.03.2018,

1. "The cases of violations will be appraised by the Expert Appraisal Committee at the Central level or State or Union territory level Expert Appraisal Committee constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986 with a view to assess that the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can run sustainably under compliance of environmental norms with adequate environmental safeguards, and in case, where the findings of Expert Appraisal Committee for projects under category A or State or Union territory level Expert Appraisal Committee for projects under category B is negative, closure of the project will be recommended along with other actions under the law.
2. In case, where the findings of the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee on point at subparagraph (4) above are affirmative, the projects will be granted the appropriate Terms of Reference for undertaking Environment Impact Assessment and preparation of Environment Management Plan and the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee, will prescribe specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter in the environment impact assessment report by the accredited consultants, and the collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or a environmental laboratory accredited by the National

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Accreditation Board for Testing and Calibration Laboratories, or a laboratory of the Council of Scientific and Industrial Research institution working in the field of environment.”

After the appraisal of the project, the SEAC decided that the Para No.2 stated above is applicable to the project. Hence, the proponent is directed to prepare appropriate reports as contained in the Para 2.

While complying with the specific aspects of the MoEF & CC directions as stated in the Para 2 above, the following steps should be followed:

Step 1: Enumerate the aspects of Violation:

- a) The proponent should enumerate the violations as applicable to the project.
- b) Furnish a description of each violation with quantitative and qualitative data.
- c) Violation categories are to be decided taking into consideration the stage at which the project execution stands.

Step 2: Ecological Damage Assessment:

- a) For each aspect of violation enumerated in step (1), identify the resultant environmental damage that may have been caused.
- b) Furnish a description of the environmental damages with quantitative and qualitative data.

Step 3: Remediation Plan:

- a) For the Environmental damage(s) identified in the step (2) above, prepare the remediation plan for the each or combination of damages.
- b) The remediation plan should essentially consists of problem statement, target to be achieved (quantity), standards, technology/procedure for remediation, equipment and machinery to be used, time schedule and remediation cost(direct and indirect cost, capital as well as O&M costs).

MEMBER SECRETARY, SEAC


CHAIRMAN, SEAC

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SECTION B

1. Natural resource Augmentation:

a) The resources that should be considered for augmentation should essentially consist of land, biota, air, water and other resources as applicable.

b) Proponent may choose one or more of the resource augmentation as applicable and provide a description of the augmentation proposal in detail for each resource.

c) The proponent should also furnish the cost for each augmentation scheme.

2. Community resource Augmentation:

a) The proponent should prepare a plan of action for addressing the needs of the community in terms of resources in the sectors of education, health and sports primarily and other such resources as applicable to the community in the vicinity of the project.

b) The community resource augmentation plan should consist of rehabilitation of houses and people, budget allocation and time schedule for completing the activity.

SECTION C

The proponent should prepare content for the ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation separately in a chapter and include in the EIA / EMP report.

SECTION D

a) After the appraisal of the EIA / EMP report submitted by the proponent, the SEAC will make a judgement of the quality of the content in the EIA / EMP report specifically with reference to the chapter covering the ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

- b) In the judgement of SEAC, if the quality of the content in the chapter is not satisfactory, the SEAC may direct the proponent to further revise the chapter and resubmit the EIA/EMP report.
- c) If SEAC concludes that the technical part is satisfactory and the costing aspect is not satisfactory then the SEAC may revert to legal provisions, MoEF & CC guidelines and similar expert committee recommendations for finalizing the cost aspects or the SEAC may use its own expertise and experience in finalizing the cost.

SECTION E

The proponent is directed to furnish data as per the CHECKLIST (Enclosure). It will help the SEAC in arriving at the nature of violations, the ecological damage and the associated cost.

MEMBER SECRETARY, SEAC


CHAIRMAN, SEAC

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Enclosure

CHECKLIST

To be filled in by the project proponent with supporting documents. Furnish reply to each question listed below.

Name of the project:

Project location:

Stage at which the project execution stands:

Part - A – Applicable for Pre-construction:

1. Have the constructions of STP, Solid Waste Management facility, E-waste management facility, DG sets, etc., been made in the earmarked area only?
2. Have statutory clearances and approvals been obtained?
 - a) Chief Controller of Explosives,
 - b) Fire and Rescue Services Department,
 - c) Civil Aviation Department,
 - d) Forest Conservation Act, 1980 and Wild Life (Protection) Act, 1972,
 - e) State / Central Ground Water Authority,
 - f) Coastal Regulatory Zone Authority, Bio-Diversity Act, 2002, Wetland Authority Act & Rules, other statutory and other authorities as applicable to the project been obtained by project proponent from the concerned competent authorities?
3. Have trees been cut? If yes, has the compensation plantation been done, in the ratio of 1: 10?
4. Have the Plastic wastes been segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016?
5. Has a separate environmental management cell formed with suitable qualified personnel?

Part - B –Pre construction phase:

6. Has the approval of the competent authority been obtained for structural safety of the buildings during earthquake, adequacy of fire fighting equipments,

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- etc as per National Building Code including protection measures from lightning etc before commencement of the work?
7. Have all required sanitary and hygienic measures for the workers were in place before starting construction activities and the same have been maintained throughout the construction phase?
 8. Are the designs of buildings in conformity with the Seismic Zone Classifications?
 9. Has the construction of the structures been undertaken as per the plans approved by the concerned local authorities/local administration?
 10. Has any construction activity of any kind been taken up in the OSR area?
 11. Has the Consent of the local body concerned been obtained for using the treated sewage in the OSR area for gardening purpose?
 12. Are the height and coverage of the constructions in accordance with the existing FSI/FAR norms as per Coastal Regulation Zone Notification, 2011?
 13. Is the basement of the building above the maximum flood level documented by the Water Resource Department, PWD, Government of Tamil Nadu in consultation with the CMDA?
 14. Are the pipelines marked with different colors with the following details?
 - i. Location of STP, compost system, underground sewer line.
 - ii. Pipe Line conveying the treated effluent for green belt development.
 - iii. Pipe Line conveying the treated effluent for toilet flushing
 - iv. Water supply pipeline
 - v. Gas supply pipe line, if proposed
 - vi. Telephone cable
 - vii. Power cable
 - viii. Storm water drains, and
 - ix. Rain water harvesting system.,
 15. Has a First Aid Room been provided in the project site during the entire construction and operation phases of the project?
 16. Has the structural design of the proposed building been vetted by premier academic institutions like Anna University, IIT Madras, etc?
 17. Is there any threat to the biodiversity due to the proposed development?

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18. Has the present land use surrounding the project site got disturbed at any point of time?
19. Has the existing land use been altered due to the project and is it in consistent with the surroundings?
20. Has the green belt area been planted with indigenous native trees, in adequate numbers and areas?
21. Have the natural vegetation listed particularly the tress, been removed during the construction phase? Was there disturbance to the aquatic eco-system within and outside the area?
22. Did the construction activities of the site adhere to all environmental and ecological standards and safeguards?
23. Have the rain water harvesting system (storage + recharge pits) been designed as per the Rain water harvesting and conservation manual of CPWD?
24. Has the land earmarked for OSR been identified, earmarked in coordination with CMDA adjacent to the entry or exit and it has been fenced?
25. Does storm water generated within the premises find access to any water bodies directly/indirectly?
26. Are proper Fire fighting plan and disaster management plan in place?
27. Does the building spoil the green views and aesthetics of surroundings and does it provide enough clean air space?
28. Are the DG Sets and STP located away from the boundary of the project site to ensure minimal disturbance to the neighbours?

Part - C – Construction phase:

29. Have all the labourers engaged for construction been screened for health and adequately treated before and during their employment on the work at the site?
30. Were Personnel working in dusty areas given protective respiratory devices and provided with adequate training and information on safety and health aspects? Have Occupational health surveillance program of the workers been undertaken periodically to observe any contradictions due to exposure to dust?

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31. Have Periodical medical examination of the workers engaged in the project been carried out and records maintained?

32. Water Supply:

- i) If water requirement during construction phase was met from ground water source, then approval of the PWD Department of water resources is necessary. Was it obtained?
- ii) Was provision made for the housing labour within the site with all necessary infrastructures and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc?
- iii) Was adequate drinking water and sanitary facilities provided for construction workers at the site? Was the treatment and disposal of waste water through dispersion trench after treatment through septic tank? The MSW generated disposed through Local Body?
- iv) Was water demand during construction reduced by use of pre-mixed concrete, curing agents and other best practices prevalent?
- v) Are the fixtures for showers, toilet flushing and drinking water of low flow type by adopting the use of aerators / pressure reducing devises / sensor based control?

33. Solid Waste Management:

- i) Was the solid waste in the form of excavated earth excluding the top soil generated from the project activity scientifically utilized for construction of approach roads and peripheral roads?

34. Top Soil Management:

- i) Was the top soil excavated during construction activities stored for use in horticulture/ landscape development within the project site?

35. Did disposal of construction debris during construction phase affect the neighboring communities and was it disposed off only in approved sites, with the approval of Competent Authority with necessary precautions for general safety and health aspects of the people? Was the construction and demolition waste managed as per Construction & Demolition Waste Management Rules, 2016?

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36. Did Construction spoils, including bituminous materials and other hazardous materials, watercourses? Was the dump sites for such materials secured so that they should not leach into the adjacent land/ lake/ stream etc?

37. Diesel Generator sets:

- i) For the diesel generator used during construction phase, was the air and noise emission in conformity to the standards prescribed in the Rules under the Environment (Protection) Act, 1986, and the Rules framed thereon?
- ii) Was the diesel required for operating stand by DG sets stored in underground tanks fulfilling the safety norms? Was clearance from Chief Controller of Explosives was taken?
- iii) Are the acoustic enclosures installed at all noise generating equipments such as DG sets, air conditioning systems, cooling water tower, etc?

38. Air & Noise Pollution Control:

- i) Were vehicles hired for bringing construction materials to the site in good condition and conformed to air and noise emission standards, prescribed by TNPCB/CPCB? Were the vehicles operated only during non-peak hours?
- ii) Ambient air and noise levels should conform to residential standards prescribed by the TNPCB, both during day and night. Was the Incremental pollution loads on the ambient air and noise quality closely monitored during the construction phase? Was any pollution abatement measures implemented?
- iii) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site shall be avoided. Is parking fully internalized and no public space utilized? Is Parking plan as per CMDA norms?
- iv) Do the buildings have adequate distance between them to allow free movement of fresh air and passage of natural light, air and ventilation?

39. Building material:

- i) Were Fly-ash blocks used as building material in the construction as per the provision of Fly ash Notification of September, 1999 and amended

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as on 27th August, 2003 and Notification No. S.O. 2807 (E) dated: 03.11.2009?

- ii) Was Ready-mix concrete used in building construction and necessary cube-tests conducted to ascertain their quality?
- iii) Is the use of glass reduced up to 40% to reduce the electricity consumption and load on air conditioning?

40. Storm Water Drainage:

Is Storm water management around the site and on site established by following the guidelines laid down by the storm water manual?

41. Are the following Energy Conservation Measures been implemented?

- i) Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material, to fulfill the requirement.
- ii) Opaque wall should meet prescribed requirement as per Energy Conservation Building Code which is mandatory for all air conditioned spaces by use of appropriate thermal insulation material to fulfill the requirement.
- iii) All norms of Energy Conservation Building Code (ECBC) and National Building Code, 2005 as energy conservation have to be adopted Solar lights shall be provided for illumination of common areas.
- iv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting. A hybrids system or fully solar system for a portion of the apartments shall be provided.
- v) A report on the energy conservation measures conforming to energy conservation norms prescribed by the Bureau of Energy Efficiency shall be prepared incorporating details about building materials & technology; R & U factors etc and submitted to the SEIAA in three month's time.
- vi) Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning.

42. Fire Safety:

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- i) Are adequate fire protection equipments and rescue arrangements in place as per the prescribed standards?
- ii) Is proper and free approach road for fire-fighting vehicles upto the buildings and for rescue operations in the event of emergency in place?

43.Green Belt Development:

- i) Has the Project Proponent planted tree species with large potential for carbon capture in the proposed green belt area based on the recommendation of the Forest department well before the project is completed?

44.Sewage Treatment Plant:

- i) Is the Sewage Treatment Plant (STP) installed certified by an independent expert/ reputed Academic institutions for its adequacy?

45.Rain Water Harvesting:

- i) Is roof rain water collected from the covered roof of the buildings, etc harvested so as to ensure the maximum beneficiation of rain water harvesting by constructing adequate sumps so that 100% of the harvested water is reused?
- ii) Is Rain water harvesting for surface run-off implemented as per plan? Before recharging the surface run off, is pre-treatment planned with screens, settlers etc done to remove suspended matter, oil and grease, etc? Are adequate number of bore wells / percolation pits/ as provided?
- iii) Is the roof rain water collected and stored in the sumps proposed to be treated before water is put to any beneficial use?

46.Building Safety:

- i) Is lightning arrester properly designed and installed at top of the building and where ever is necessary?

Part – D Operation Phase

1. Has the "Consent to Operate" been obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project?
2. Is the Proponent responsible for the maintenance of common facilities including greening, rain water harvesting, sewage treatment and disposal solid

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- waste disposal and environmental monitoring including terrace gardening for a period of 3 years?
3. Is the ground water level and its quality monitored and recorded regularly in consultation with Ground Water Authority?
 4. Is treated effluent emanating from STP recycled / reused to the maximum extent possible? Does the treated sewage conform to the norms and standards for bathing quality laid down by CPCB irrespective of any use? Are necessary measures in place to mitigate the odour and mosquito problem from STP?
 5. Is the STP continuously operated by providing stand by DG set in case of power failure?
 6. Is the treated sewage used for green belt development/ avenue plantation without causing pollution?
 7. Are adequate measures being taken to prevent odour emanating from solid waste processing plant and STP?
 8. Is regular monitoring done regarding operation and maintenance of STP, reuse and disposal of untreated sewage and effluent, swimming pool, Solid waste Management?
 9. Have any CSR / CER activities been carried out?
 10. Is organic waste convertor proposed for managing the municipal solid waste (Organic components) in place? If yes, is care taken to operate and maintain the OWC such a way that there is no problem to the nearby residents?
 11. Is the Municipal solid waste generated collected, segregated and disposed as per Solid Waste Management Rules, 2016?
 12. Is the e - waste generated collected and disposed to a nearby authorized e-waste centre as per E- waste (Management& Handling), Rules 2016?
 13. Is the height of stack of DG sets equal to the height needed as per CPCB norms?
 14. Is the noise level maintained as per MoEF/CPCB/TNPCB guidelines/norms both during day and night time?
 15. Is spent oil from D.G sets stored in HDPE drums in an isolated covered facility and disposed as per the Hazardous& other Wastes (Management & Transboundary Movement) Rules 2016?

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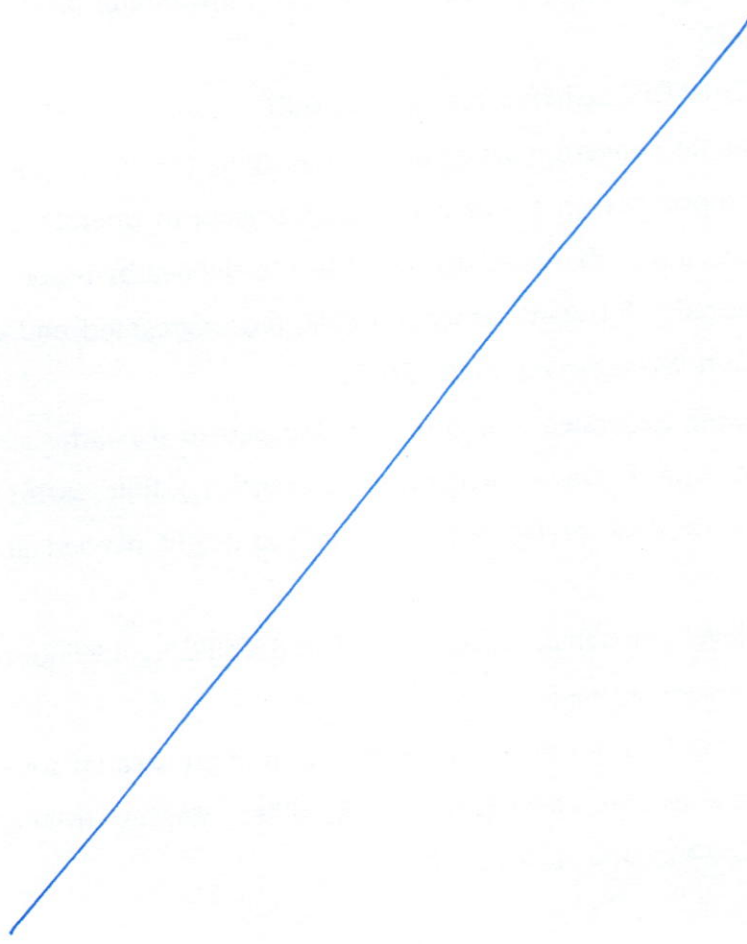
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16. Is the storm water drain provided at the project site maintained without choking or without causing stagnation? Is the storm water properly disposed off in the natural drainage / channels without disrupting the adjacent public?
17. Are the used CFLs and TFLs properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination?

Signature:

Name of the proponent:

Date:



PART III:

DEFICIENCIES TO BE RECTIFIED BEFORE SUBMITTING THE EIA REPORT:

1. The proponent should complete the following activities/submit necessary documents by the time of submitting the EIA Report:
 - a) The proponent should obtain the updated certificate of compliance from the Regional office, MoEF&CC for the existing EC issued by SEIAA-TN
 - b) The proponent should furnish the suitable proposal for the disposal of excess treated sewage of 67 KLD.
 - c) The proponent should earmark the greenbelt area with dimension and DGPS coordinates for the green belt area.
 - d) The proponent should plant 700 trees of indigenous species as listed below and submit the necessary photographs for the same.

Pongamia glabra	Pungan
Thespesia populnea	Poovarasu
Ficus religiosa	Arasu
Azadirachta indica	Vembu
Terminalia arjuna	Neermarudhu
Michelia champaca	Shenbagam
Syzygium cumini	Naval
Madhuca longifolia	Ilippai
Mimusops elengi	Magilam
Swietenia macrophylla	Mahogany

- e) The proponent should provide adequate stack height and acoustic enclosure as per CPCB norms for the D.G set with capacity 380 KVA.

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- f) The proponent should take necessary steps to ban the “use and through away plastic” in their campus as per TamilNadu Government G.O.(Ms) No.84. Dated:25.06.2018.
- g) The proponent should provide adequate number of rainwater harvesting pits with approved dimension as per norms.
- h) It is suggested that the existing pond should be hydraulically utilised to capture the excess runoff so that rain water runoff harvested increases substantially
- i) The proponent should furnish the detailed about the CSR/CER activities along with the EIA report for the existing and proposed.
- j) the proponent to furnish the details about the Hazardous waste such as used oil from D.G sets etc. generated and disposed.
- k) The proponent should furnish the details about the e-waste generation and disposal details.
- l) The proponent should furnish the details about the Hazardous waste such as used oil from D.G sets etc. generated and disposed.
- m) The proponent should furnish the following documents/certificates along with EIA report:
 - i. Site plan showing all details
 - ii. Environmental Management Cell with detail of members and their qualifications & duty allocated for them.
 - iii. Certificate for structural safety from Anna University/IIT/other reputed govt. Institutions.
 - iv. Adequacy report of STP from Anna University/IIT/other reputed govt. Institutions.