

MINUTES

FOURTEENTH MEETING OF STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), TAMILNADU, CHENNAI-15 HELD ON 14TH & 15TH OCTOBER 2009.

PRESENT: **Expert Committee**

01. Dr. Muthiah Mariappan	Chairman	02. Shri. R. Ramachandran	Secretary
03. Dr. K. Thanasekaran	Member	04. Dr. K. Srinivas	Member
05. Prof. T. Swaminathan	Member	06. Dr. V. Sunderaraj	Member
07. Dr. A.G. Murugesan	Member	08. Dr. H. Mohamad Kasim	Member
09. Prof. K. Muthuchelian	Member	10. Dr. Dhulasi Birundha Varadarajan,	Member

Representatives of the Projects

- Representatives of M/s. Sripathi Paper & Boards (P) Ltd, Virudhunagar Dist.
- Representatives of M/s. Thasami Builders (P) Ltd, Coimbatore District.
- Representatives of M/s. Casa Grande (P) Ltd, Chennai District.
- Representatives of M/s. Pallavaram and Tambaram Municipalities
- Representatives of M/s. Dhandapani Cements (P) Ltd, Trichy District.
- Representatives of M/s. Shreyan Builders, Kancheepuram District.
- Representatives of M/s. Dr. M.G.R. Educational & Research Institute
University, Chennai District.
- Representatives of M/s. Riverside Infrastructure India (P) Ltd, Kancheepuram Dist.
- Representatives of M/s. Vijayshanthi Builders Ltd, Chengalpattu Taluk.
- Representatives of M/s. Jai Hind Wire Rod Mills Ltd, Salem District.
- Representatives of M/s. Selene Estate (P) Ltd, Kancheepuram District.
- Representatives of M/s. Footwear Design Development Institute, Kancheepuram
Dist.
- Representatives of M/s. Coromandel Engineering Co. Ltd., Coimbatore District.
- Representatives of M/s. Employees State Insurance Corpn, Coimbatore District.
- Representatives of M/s. Chennai Corporation, Chennai
- Representatives of M/s. Coromandel Electric Company Ltd, Chennai District.
- Representatives of M/s. Sabari Realtors Pvt. Ltd, Kancheepuram District.
- Representatives of M/s. Kaveri Gas Power Limited, Thiruvallur District.
- Representatives of M/s. Pacifica Infrastructure Co. (P) Ltd., Kancheepuram Dist.
- Representatives of M/s. Care School of Engineering, Trichy District.
- Representatives of M/s. Blue Mountain Township (P) Ltd, Chennai District.
- Representatives of M/s. Airforce Naval Housing Board (Coimbatore Project),
Coimbatore District.
- Representatives of M/s. KGISL Technologies & Infrastructurers (P) Ltd,
Coimbatore District.
- Representatives of M/s. GMT Alloys, Tiruvallur District.
- Representatives of M/s. Saraswati Udyog India Ltd, Namakkal District.

Day - 1

14.00.00 GENERAL INTRODUCTION BY THE CHAIRMAN AND SECRETARY OF THE COMMITTEE

The Chairman and Secretary of the committee welcomed the Members of the SEAC for its Fourteenth meeting. Applications received from the project proponents and additional details received from already appraised projects were taken for appraisal and consideration.

14-01-01 M/s.Sripathi Paper & Boards (P) Ltd,Sukiravarpatti Village, Sivakasi Taluk, Virudhunagar District - 1(d) - Thermal Power Plant - Revised EIA submission based on TOR-Environmental Clearance-Regarding.

Recommended.

- 1. Details of solid waste management have to be furnished with reference to use of coal alone, coal and other fuel in combination and the polluttional loads caused by use of various fuels individually and in combinations.**
- 2. Consent of the village officers for conveyance of raw water from one village to another has to be obtained and produced for verification.**

14-01-02 M/s.Thasami Builders (P) Ltd,Sundakamuthur Village, Coimbatore South Taluk,Coimbatore District 8(a)-Building & Construction projects- Environmental Clearance-Regarding.

Recommended.

- 1. Scheme of STP and the design criteria adopted for design of various units of operation are to be furnished.**
- 2. A letter from TWAD Board /Municipality has to be obtained and produced.**

14-01-03 M/s.Casa Grande (P) Ltd, Reserve Bank Colony, Chennai District - 8(a)-Building & Construction projects - Environmental Clearance-Regarding.

Recommended.

- 1. Technical details of the soil and its profile for a depth of three meters below the average ground level studied at the project site are to be furnished.**
- 2. Proposed Management Plan for the treatment and disposal of the solid waste generated at the site.**
- 3. Details of the STP scheme along with the design criteria and reuse of treated waste - water are to be furnished.**

14-01-04 M/s.Pallavaram and Tambaram Municipalities -7(i) Integrated Municipal Solid Waste Management facility EIA submission based on TOR Environmental Clearance-Regarding.

The proponent must furnish the following:

- 1) Arrangement for segregation of solid waste at sources of generation and conveyance of the segregated waste to the site for further treatment.**
- 2) Classification of the solid waste presently collected from various neighbourhoods and the characteristics of the classified wastes in appropriate units of expression of results in percentage (e.g. combustibles and non combustibles, ferrous and non-ferrous metals moisture content etc.)**
- 3) The proximate analysis and calorific value for combustible fraction of solid waste.**
- 4) Characteristics of soil at the site of disposal of solid waste and the technical details of the soil on the surface and in the vadose - zone.**
- 5) Location of the inhabitations with distance in KM from the periphery of**

the proposed site. Plans for post closure of the project are to be furnished.

- 6) The project proponent may arrange at their cost a visit for some of members of SEAC to one of the existing facilities "Integrated Municipal Solid Waste Management".

14-01-05 M/s.Dhandapani Cements (P) Ltd,Thathamangal village, Mannachanallur Taluk, Trichy District.- 3(b) - Cement plants Environmental Clearance-Regarding.

The committee decided to issue the following TOR:

1. Present land use pattern of the proposed site for the project and salient features viz.water bodies, hospitals, educational institutions monuments/heritage centres, HT line, defence establishments etc at 10 KM radius from the centre of the site.
2. Details of location of wildlife sanctuary and national parks within 10 km radius from the centre of the project site if any and plan for conservation and protection of the same should be included.
3. Collection of baseline data on air, water, soil and noise etc. for one season other than monsoon should be included.
4. Ambient air quality monitoring modeling for cement plant should be included.
5. Details of fugitive emissions and control technologies should be provided.
6. Chemical composition and characterization of RSPM should be presented. Location of at least one AAQM station should be in downwind direction.
7. Scheme of proper storage of fly ash, gypsum and clinker should be included.
8. Impact by transportation of raw materials and the details of mitigation measures for controlling pollution should be included.
9. Risk assessment and damage control should be included.
10. Plan for occupational health of the workers within the plant should be included.
11. Green belt development plan as per CPCB guidelines should be included. EMP should include a clear map for plantation/green belt.
12. Socio-economic development activities around the proposed site for the cement plant should be included.
13. Detailed Environment management Plan (EMP) with specific reference to details of air pollution control system, water & wastewater management, monitoring frequency, responsibility and time-bound implementation plan for mitigation measure should be provided.
14. EMP should include the concept of waste-minimisation, recycle/reuse/recover techniques, energy conservation and natural resource conservation.
15. Total capital cost and annual recurring cost for environmental pollution control measures should be presented.
16. Points raised during the public hearing and commitment of the project proponent on issues raised by the public shall be recorded. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.

14-01-06 M/s.Shreyan Builders, Perungudi Village, Tambaram Taluk, Kancheepuram District - 8 (a)-Building & Construction projects - Environmental Clearance-Regarding.

Recommended.

14-01-07 Dr.M.G.R.Educational & Research Institute University, ACS Medical College & Hospital, New No.22, old No.121,G.N.Chetty Road, Chennai - 8(a) - Building & Construction projects - Environmental Clearance-Regarding.

Committee decided to call the project proponent to re-present the project details.

14-01-08 M/s.Riverside Infrastructure India (P) Ltd, (MARG), Karapakkam Village,Tambaram Taluk, Kancheepuram District- 8(a) - Building & Construction projects Environmental Clearance-Regarding.

Neither the proponent nor their representatives turned up for the presentation.

14-01-09 M/s.Vijayshanthi Builders Ltd, Thaiyur-B-Village, Kelambakkam, Chengalpattu Taluk, Kancheepuram District - 8(a)-Building & Construction projects - Environmental Clearance-Regarding.

Recommended.

Details of STP and solid waste management plan are to be reworked and furnished.

14-01-10 M/s.Jai Hind Wire Rod Mills Ltd, Nattamangalam Road, Amani Kondalampatti, Salem District- 3(a) - Metallurgical industries -Environmental Clearance-Regarding.

The committee decided to issue the following TOR:

1. Current land use pattern of the proposed site shall be supported by an authenticated document of a state authority on the satellite imagery.
2. Location of national parks/wildlife sanctuary/reserve forests within 10 km. radius from the centre of the site for the proposed activity should be furnished.
3. Details of industries, inhabitations, hospitals, schools etc. located within 10 km radius from the centre of the site should be furnished.
4. Site-specific micro-meteorological data including temperature, relative humidity, wind speed and direction and rainfall should be provided.
5. List of raw materials required for production and capacity utilization within the site.
6. Manufacturing process details should be included.
7. Total capital cost and annual recurring cost earmarked for environmental pollution control measures.
8. Ambient air quality observed at 8 locations within 10 km radius of the project site with the tabulated observations.
9. Chemical composition of the RSPM and the concentration of the constituent heavy metals shall be presented.
10. Air quality modeling for Steel Plant for estimating critical pollutants should be applied. Air Pollution Control measures provided at the source of the induction furnace should be included.
11. Foreseeable Impact on the environment by transport and handling of raw materials and end products should be furnished.
12. The planned pollution control measures for the probable pollution load should be clearly detailed.
13. An action plan to control and monitor secondary and fugitive emissions as per CPCB guidelines should be included.
14. Gaseous emissions for at least one season shall be observed. Avoid monsoon season.
15. Necessary permission from competent authority for withdrawal of ground water within the site shall be obtained. Budgeting of water including quantity of waste water, water for recycle and reuse and scheme for STP should be provided. Appropriate water conservation methods should be adopted with acceptable design criteria.
15. Monitoring of ground water for assessing the level of pollutants identifiable with process and products at eight locations around the process production site should be included. Geological and hydro geological and ecological observations made

- at the project area should be carried out and the data furnished appropriately.
16. Action plan for disposal of solid wastes generated during operation, storage, utilization and disposal of the processed solid wastes should be included.
 17. Risk assessment and preventive measures for controlling damage should be presented.
 18. Plan for implementation of scheme on occupational health of the workers should be provided.
 19. Green belt development plan as per CPCB guidelines shall be highlighted.
 20. Scheme for implementation of rainwater harvesting shall be presented.
 21. Socio-economic development activities around the project site shall be highlighted.
 22. The necessary environmental protection measures for the generators (DG sets) should be provided as per the norms of CPCB.
 23. Water quality of nearby water bodies (rivers, lakes, Nullahs and drains) if any at upstream and downstream of the project area.

Points raised during the public hearing and commitment of the project proponent on issues raised by the public shall be recorded. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.

14-01-11 M/s.Selene Estate (P) Ltd, Perumbakkam-Jalladianpettai Join Road, Tambaram Taluk, Kancheepuram District- 8(a)-Building & Construction projects -Environmental Clearance - Regarding.

Recommended.

14-01-12 M/s.Footwear Design Development Institute, Irungattukottai, Sriperumpudur Taluk, Kancheepuram District. 8(a)-Building & Construction projects - Environmental Clearance-Regarding.

Recommended.

14-01-13 M/s.Coromandel Engineering Co. Ltd, Chinna Vedampatti Village, Coimbatore District 8(a)-Building & Construction projects - Environmental Clearance-Regarding.

Recommended.

14-01-14 M/s.Employees State Insurance Corpn, Varatharajapuram, Singanallur, Coimbatore District - 8(a)-Building & Construction projects - Environmental Clearance-Regarding.

Recommended.

Segregation of the wastewater streams from laundry, laboratories, operation theatres and canteen and appropriate and adequate management of the pollution control strategies are to be furnished.

Day 2

14-02-01 Chennai Corporation, Chennai -7(i) Integrated Municipal Solid Waste Management facility Environmental Clearance-Regarding.

The committee expresses serious concern about the site in terms of eco-sensitivity and public health. Hence, it is decided to recommend public consultation and re-presentation.

14-02-02 M/s. Coromandel Electric Company Ltd, Proposed 48 MW power plant at M/s. The India Cements Ltd, Sankar Nagar, Trinelveli District -1(d) Thermal Power Plant-Environmental Clearance-Regarding.

The committee decided to issue the following TOR:

- i) All the activity components of the power plant shall be incorporated in the topo sheet.
- (ii) Details of various features in 10 km radius from the centre of proposed site shall be furnished.
- (iii) Proof of the document for the land use pattern of the proposed site shall be produced.
- (iv) Location of any national park, wild life, sanctuary, existing reserve forest migratory routes, if any, within 10 km radius from the centre of the project site shall be specified and marked on the map.
- (v) Land requirement for the proposed project is to be optimized. Area wise break up of land use and its availability are to be furnished.
- (vi) Details of RO plant and disposal of RO rejects, boiler blow-down, water softner rejects etc. are to be furnished.
- (vii) Contour map of the site should be given clearly indicating whether the site requires any cutting and filling. If so, details of filling, quantity of fill material required, its source, transportation etc. should be given.
- (viii) Change in the natural course of drainage of surface run-off shall be indicated on the contour map.
- (ix) One season barring monsoon season site-specific meteorological data shall be provided.
- (x) One complete season AAQ data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall include SPM, RSPM, SO₂, NO_x etc. The location of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors including reserved forests. There should be at least one monitoring station in the upwind direction.
- (xi) Possible impact of air pollutants on land, vegetation within the area covered in 10 km radius from the centre of the activity site. Also, provide isopleths for the surveyed area.
- (xii) Proximate analysis of fuel including sulphur, moisture content, calorific value, heavy metals, etc of both primary and auxiliary fuel shall be provided. Also include the quantity of fuel(s) to be used in a day and stored for a month.
- (xiii) Source of water and its availability shall be indicated. Commitment regarding availability of required quantity of water shall be obtained from competent authority. Necessary approval letter should be obtained from the competent authority for drawal of ground water if any.
- (xiv) Details of rainwater harvesting and its reuse pattern.
- (xv) Examine the feasibility of zero discharge. In case any discharge is planned- indicate its quantity and quality and point of discharge. Furnish the possible improvement in quality of soil and water environment of the sink.
- (xvi) Scheme for water conservation the extent of reuse within the operational areas.
- (xvii) Details of water balance taking into account reuse and re-circulation of effluents.
- (xviii) Details of the extent and location of the green belt and scope for translation of guidelines of CPCB in selection of species of plants.
- (xix) Details of ash handling plan shall be provided.
- (xx) Scheme for arresting the leaching from ash pond to the adjoining open and

- borewells and monitoring plan.
- (xxi) Detailed R&R plan/compensation package for the affected people shall be prepared taking into account the socio economic status of the area, homestead outsets, land outsets, landless labourers.
 - (xxii) Details of flora and fauna in the project site and plan for conservation of rare species.
 - (xxiii) 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.
 - (xxiv) Public hearing points raised and commitment of the project proponent on the same. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.
 - (xxv) Highlight the impact of the proposed project on the local community in terms of employment, education, health care, water supply and sanitation, cultural activities, transport etc.
 - (xxvi) Impact of the project on local infrastructure of the area such as road network and whether any additional infrastructure would need to be constructed and the agency responsible for the same with time frame.
 - (xxvii) EMP to mitigate the adverse impacts due to the project along with item wise cost of its implementation.
 - (xxviii) Risk assessment to be undertaken. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be provided.
 - (xxix) Any litigation pending against the project and /or any direction /order passed by any Court of Law against the project, if so, details thereof.

Besides the above, the following general points will be followed:-

- a) All documents to be properly referenced with index, page numbers and continuous page numbering.
- b) Where data is presented in the report especially in table, the period in which the data was collected and the source should invariably be indicated.
- c) Where the documents provided are in a language other than English, an English translation should be provided.
- d) The Questionnaire for environmental appraisal of thermal power projects as devised earlier by the MoEF shall also be filled and submitted.

In addition to the above, information on the following may also be incorporated in the EIA report.

1. Is the project intended to have CDM-intent?
 - (i) If not, then why?
 - (ii) If yes, then
 - (a) Has PIN (Project Idea Note) {or PCN (Project Concept Note)} submitted to the NCA (National CDM Authority) in the MoEF.
 - (b) If not, then by when is that expected.
 - (c) Has PDD (Project Design Document) been prepared.
 - (d) What is the Carbon intensity from your electricity generation projected (i.e. CO₂ Tons/MWH or Kg/KWH)
 - (e) Amount of CO₂ in Tons/year expected to be reduced from the baseline data available on the CEA web-site (<http://www.cea.nic.in/>)

Notwithstanding 1(i) above, data on (d) & (e) above to be worked out and reported.

14-02-03 M/s.Sabari Realtors Pvt.Ltd, Siruseri, Kancheepuram District - 8(a) - Building & Construction projects -Environmental Clearance-Regarding.

Recommended.

- 1) The details of the solid waste management which includes organic waste converter and design criteria for organic compost are to be provided.
- 2) The design criteria of the STP for accommodating enhanced volume of the waste water on account of the increase in the number of tenements.
- 3) The conveyance of the treated waste water from the proposed site to stations outside the site should have valid consent/approval of a competent agency.

14-02-04 M/s.Kaveri Gas Power Limited,Sirupuzhaolpettai Village, Gummidipoondi Taluk, Thiruvallur District 1(d) Thermal Power Plant -Environmental Clearance-Regarding.

Recommended

14-02-05 M/s.Pacifica Infrastructure Co. (P) Ltd, Padur Village, Chengalpattu Taluk, Kancheepuram District - 8(a) - Building & Construction projects Environmental Clearance - Regarding.

Recommended

1. Measures to abate the impact on the Padur lake by the obstruction of the run off from the existing catchment and possible entry of the waste water in to the lake are to be provided.
2. Monitoring of the air quality at least at five sampling stations is to be carried out.
3. Vehicular traffic survey in the last reach of the highway passing through the proposed site has to be conducted.
4. Continuous monitoring of noise at stations within and off the campus should be carried out.
5. The water balance has to be revised with occupancy of the flats with five members in each of them.
6. Exclusive fire fighting scheme has to be integrated with water management within the project site.
7. The scheme for treatment and disposal of the waste water has to be redesigned with modified water demand matching with increase in population.
8. The treatment and disposal of the solid waste by a compact method should be detailed.

14-02-06 M/s.Care School of Engineering, Tayanur Village, Srirangam Taluk, Trichy District - 8(a) - Building & Construction projects Environmental Clearance-Regarding.

Recommended.

14-02-07 M/s.Blue Mountain Township (P) Ltd, Trimex Towers, No.1 Subbaraya Avenue, C.P.Ramasamy Road, Alwarpet, Chennai-18 8(a)-Building & Construction projects - Environmental Clearance-Regarding.

Recommended.

14-02-08 M/s.Airforce Naval Housing Board(Coimbatore Project), Krishnarayapuram Village, Coimbatore District - 8(a) - Building & Construction projects-Environmental Clearance-Regarding.

Recommended

14-02-09 M/s.KGISL Technologies & Infrastructurers (P) Ltd, KGISL Campus, Thudiyalur Road, Saravanampatti, Coimbatore District - 8(a)-Building & Construction projects -Environmental Clearance-Regarding.

Recommended

14-02-10 M/s.GMT Alloys, SIPCOT, Gummidipoondi, Tiruvallur District - 3(a)
Metallurgical Industries -Environmental Clearance-Regarding.

The committee decided to issue TOR

1. Current land use pattern should be prepared based on the satellite imagery.
2. Location of national parks/wildlife sanctuary/reserve forests within 10 km. radius should be indicated.
3. Details of industries located within 10 km radius should be furnished.
4. Site-specific micro-meteorological data including temperature, relative humidity, wind speed and direction and rainfall should be provided.
5. List of raw materials required for production and capacity utilization of the project.
6. Manufacturing process details should be included.
7. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
8. Ambient air quality observed at 8 locations within 10 km radius of the project site. Pictorial and tabular presentation of meteorological data shall be presented.
9. The suspended particulate matter present in the ambient air must be monitored. Physical and Chemical composition of SPM shall be provided.
10. APC measures for the control of emissions from the induction furnace should be included with specific reference to Lead.
11. Impact on the environment by transport, handling of raw materials and end products should be assessed and furnished.
12. An action plan to control and monitor secondary and fugitive emissions as per CPCB guidelines should be included.
13. Gaseous emissions for one season shall be observed for other than monsoon season.
14. Approvals for the drawl of water from competent agency, budgeting of water to be used, recycled and reused are to be provided. Also provide plan for treatment and disposal of waste water generated for processes.
15. Monitoring of ground water for assessing the level of pollutants identifiable with process and products at eight locations.
16. Action plan for solid/hazardous waste generation, storage, utilization and disposal should also be included.
17. Planned occupational health of the workers should be recorded.
18. Green belt development plan shall be included as per norms of CPCB.
19. The necessary environmental protection measures for the generators should be provided as per the norms of CPCB.
20. Points raised during the public hearing and commitment of the project proponent on issues raised by the public shall be recorded. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.

14-02-11 M/s.Saraswati Udyog India Ltd, Kabilarmalai Village, Paramathi-Velur Taluk, Namakkal District- 1(d) Thermal Power Plant - Environmental Clearance-Regarding.

Recommended.

The committee decided to issue the following TOR:

- i) The study area should cover an area of 10 km radius from the centre of proposed site.

- ii) Land use pattern of the project site shall be authenticated by a letter of an authority.
- iii) Location of any national park, wild life, sanctuary, and migratory routes, if any, within 10 km radius from the centre of the project site shall be indicated and marked on the map duly authenticated by the Chief Wildlife Warden.
- iv) Item wise break up of land requirement pattern and its availability within the site to be furnished. The norms prescribed by CEA should be kept in view.
- v) Details of RO plant and disposal of RO rejects, boiler blow-down, water softener rejects are to be furnished.
- vi) Contour map of the project site and details of filling, quantity of fill material required, its source, transportation etc. should be given.
- vii) Changes in the direction of natural drainage of run-off if any are to be indicated.
- viii) One season preferable non-monsoon season site-specific meteorological data shall be provided.
- ix) One complete season AAQ data (except monsoon) to be given along with the dates of monitoring. Parameters of study include SPM, RSPM, SO₂ and NO_x. The location of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors including reserved forests. There should be at least one monitoring station in the upwind direction.
- x) Details of the model used for assessing air pollution and the input data used for the same should be provided along with isopleths.
- xi) Analysis of sulphur, ash content and heavy metals in primary and auxiliary fuel shall be provided.
- xii) Quantity of fuel required its source of availability and mode of transportation to the site shall be provided.
- xiii) Source of water and its availability a letter of commitment for supply of required quantity of water from the competent authority shall be provided. Necessary approval letter should be obtained from the competent authority for drawl of ground water if any.
- xiv) Provide details of rainwater harvesting programme and intended use of harvested water.
- xv) Examine the feasibility of zero discharge. In case of any proposed discharge on land or into water body is envisaged, quantity & quality at the point of discharge shall be provided. Also use pattern of the sink may be indicated.
- xvi) Other water conservation measures if proposed in the project should be given.
- xvii) Budgeting of water including reuse and re-cycling of effluents is to be provided.
- xviii) Details of green belt as per norms of CPCB shall be provided.
- xix) Detailed plan of ash handling and use of ash lifted from pond shall be provided.
- xx) Control measures for leachate of pollutants from the ash pond and monitoring facility shall be included.
- xxi) The socio economic status of the population in the neighbourhoods area, homestead and the contemplated CSR scheme shall be explained.
- xxii) Details of existing flora and fauna in the project site and measures for rehabilitate the rare species if any shall be provided.
- xxiii) 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.
- xxiv) Public hearing points raised and commitment of the project proponent on the

same. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.

- xxv) Impact of the project on local infrastructure of the area such as road network and whether any additional infrastructure would need to be constructed and the agency responsible for the same with time frame.
- xxvi) EMP to mitigate the adverse impacts due to the project along with item wise cost of its implementation.
- xxvii) Risk assessment to be undertaken. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be provided.
- xxviii) Any litigation pending against the project and /or any direction /order passed by any Court of Law against the project, if so, details thereof.

Besides the above, the following general points will be followed:-

- i) All documents to be properly referenced with index, page numbers and continuous page numbering.
- ii) Where data are presented in the report especially in table, the period in which the data was collected and the source should invariably be indicated.
- iii) Where the documents provided are in a language other than English, an English translation should be provided.
- iv) The Questionnaire for environmental appraisal of thermal power projects as devised earlier by the MoEF shall also be filled and submitted.

In addition to the above, information on the following may also be incorporated in the EIA report.

1. Is the project intended to have CDM-intent?
 - (i) If not, then why?
 - (ii) If yes, then
 - (a) Has PIN (Project Idea Note) {or PCN (Project Concept Note)} submitted to the NCA (National CDM Authority) in the MoEF.
 - (b) If not, then by when is that expected.
 - (c) Has PDD (Project Design Document) been prepared.
 - (d) What is the Carbon intensity from your electricity generation projected (i.e. CO₂ Tons/MWH or Kg/KWH)
 - (e) Amount of CO₂ in Tons/year expected to be reduced from the baseline data available on the CEA web-site (<http://www.cea.nic.in/>)

Notwithstanding 1(i) above, data on (d) & (e) above to be worked out and reported.

Table Agenda for XIV SEAC meeting held on 14th and 15th October 2009.

To consider further Appraisal of the projects with the response of the Proponents to the clarifications/undertakings called for by the SEAC in the previous meetings and subsequently discussed during the meeting held on 14th and 15th October 2009.

14-02-12-01 **M/s.Basudha Udyog Pvt.Limited, Thandalachery Village, Gummidipoondi Taluk, Thiruvallur District-1(d) Thermal Power Plant-Environmental Clearance-Regarding.**

Sl.No.	Details called for	Response by the Proponent
01	The analysis of dust particles around the process flow to be furnished.	Furnished. There is no dust generated in the main process. However, the proponent has reported that the concentration of SPM varied between 3 to 6 mg/Nm ³ around the coke oven. The operations of totally mechanized and hardly any workers in this area.
02	The Proponent has to produce data on the coal dust generation and its control measures already adopted in the existing plant and project the future pollution on account of expansion.	Coking coal is brought in closed trucks to the plant site. The Hydraulic tippers unload the coal in close shed. These closed sheds are provided with stackers/reclaimers. The coal is then taken to underground bunkers. The closed hood conveyors then transport coal to a fully enclosed hammer crusher. This hammer crusher is fully enclosed. The crushed coal is transported in close hood conveyors to charging cars above the oven. The charging cars have dampers, which are opened after aligning the charging car on top of oven openings. After coal unloading, the coal is totally handled in stacker/reclaimer/JCB. These are provided with glass enclosed cabin for the operators. Personal samplers were used to analyze the particulate concentration in the operator cabin shows values as low as 0.1mg/Nm ³ .
03	The proponent has to give details regarding the possible health related issues for workers exposed to coal and coke dust and submit proposals for sustaining the well being of the workers.	The workers are provided with personal protective equipments and generally work in glass enclosed cabins only, thus preventing direct exposure to coal dust.
04	The proponent has to furnish detailed coal and coke handling system with drawings.	Coal is brought in closed trucks to the plant site, and unloaded in closed shed. The coal stacked in closed shed. The coal is the handled by JCB. The coal is

taken by JCB and coal is let into under ground bunker. From the bunker coal is conveyed in close hooded conveyors to the hammer crusher. Hammer crusher is fully enclosed and is provided with exclusive bag filter. The coal dust collected in bag filter is again taken back to the hammer crusher. The crushed coal conveyed in close hooded conveyor to the charging cars. The charging car is aligned on top of the oven and the coal is emptied into the oven.

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| 05 | Precautions proposed to be taken to prevent spontaneous heating in the coal stocking and handling area and to deal with the same if it occurs. | Proper stockpile formation that limits the introduction of Oxygen into the pile is critical in mitigating spontaneous combustion. Also certain measures are provided to limit spontaneous combustion |
| 06 | No.of sprinklers used and quantity of water consumed per day shall be indicated. | The sprinklers system consisting of pressurized high throw sprinkler jets of capacity 2 LPM of water upto 12 kg/cm ² pressure with a throw range of 15 meters is used to sprinkle water from both sides of the stockpile. The system has 100% standby pumping system. |

Recommended.

14-02-12-02 **M/s.Krishna Mines,Ramayanpatti Village, Tirunelveli Taluk & District-1(a) Mining & Minerals-Environmental Clearance-Regarding.**

SI.No.	Details called for	Response by the Proponent
01	Details of the Environmental Quality for the existing setting and the proposed EMP for the future.	Furnished
02	Proposals for reclamation of the open cast mines and other developmental activities.	Furnished

Recommended.

14-02-12-03 **M/s.Auro Mira Biopower India (P) Ltd, S.Nos.162/5,6, 168/11, 169/1, 2,3A, 3B etc. Melmaruthappapuram Village, Veerakeralam Pudur Taluk, Thirunelveli District - 1(d) Thermal Power Plants-Environmental Clearance-Regarding.**

Sl.No.	Details called for	Response by the Proponent
01	The proponent shall furnish the detailed proposal for implementing Zero waste discharge.	Furnished
02	Collection and disposal of fly ash shall be explained.	Furnished
03	The project proponent shall adopt appropriate techniques for collection and reuse of rain water within the project site.	Assured to adhere.
04	Taping of ground water shall be dispensed.	No assurance for dispensing of taping of ground water is reported. Only method of disposal of waste water furnished
05	Strategies for scientific monitoring of impact of disposal of RO reject and treated waste water.	Only characteristic of R.O. rejects furnished.
06	Energy plantation should be established.	Energy plantation will be within the local area itself.

Recommended

14-02-12-4 **M/s.LRC Speciality Chemicals (P) Ltd, Plot.No.92, SIDCO Industrial Estate, Kakkalur Village, Thiruvallur Taluk & District. 5(f) Synthetic Organic Chemical (Bulk Drug)-Environmental Clearance-Regarding.**

Sl.No.	Details called for	Response by the Proponent
01	The proponent shall furnish the detailed proposal for implementing Zero waste discharge.	Furnished

Recommended

14-02-12-5 **M/s.True Developers (P) Ltd, Arasur Village, Palladam Taluk, Coimbatore District - 8(a)-Building & Construction projects-Environmental Clearance-Regarding.**

Sl.No.	Details called for	Response by the Proponent
01	Details on solid waste management	Furnished.
02	Details of green belt proposed	Furnished

Recommended

14-02-12-6 **M/s.Brigade Enterprises Ltd, OMR, Thiruvanmiyur, Chennai District - 8(a)-Building & Construction projects- Environmental Clearance- Regarding**

Sl.No.	Details called for	Response by the Proponent
01	Details of management of sewage treatment plant	Furnished.
02	Details of management of solidwaste	Furnished.

Recommended

01	Dr. Muthiah Mariappan	Chairman
02	Shri. R. Ramachandran	Secretary
03	Prof. T. Swaminathan	Member
04	Dr. A.G. Murugesan	Member
05	Prof. K. Muthuchelian	Member
06	Dr. K. Thanasekaran	Member
07	Dr. K. Srinivas	Member
08	Dr. V. Sunderaraj	Member
09	Dr. H.Mohamad Kasim	Member
10	Dr. Dhulasi Birundha Varadarajan,	Member