

**Minutes of the 22<sup>nd</sup> Goa State Expert Appraisal Committee  
(Goa-SEAC) meeting held on 13<sup>th</sup> May 2014 at 10.00 a.m. in the Conference  
Room of the EIA Secretariat, O/o Goa State Pollution Control Board  
(GSPCB), Patto.**

The twenty-second meeting of the Goa-SEAC was held on 13<sup>th</sup> May 2014 in the Conference room of the GSPCB from 10.00 a.m. onwards under the Chairmanship of Prof. Antonio Jaime Afonso. The list of members who attended the meeting is at “Annexure – I”.

At the beginning, Chairman welcomed the Members and requested Secretary, SEAC to proceed as per the Agenda items (refer Annexure – 2). However and on approval of the Chairman, communication received from the Goa State Infrastructure Development Corporation (GSIDC) dated 12<sup>th</sup> May 2014 in respect of undertaking EIA studies to set up Common Municipal Solid Waste Management Facilities (CMSWMFs’) was discussed so as to suitably reply the same prior to take up the matter as listed in the agenda items. Later, following project-specific recommendations, subsequent to their presentations made before the SEAC in the last meeting held on 29<sup>th</sup> April 2014, were deliberated seeking compliance to observations listed below -

1. Proposed construction of residential complex along with Community facility in survey no. 215/1 of Sancoale village, Mormugao Taluka by **M/s Anand Chandra Bose.**  
(**environmental consultant:** *M/s Aditya Environmental Services, Mumbai*)
  - i. Submission of land conversion – “Sanad’, as applicable.
  - ii. Acoustically insulated D.G. with ambient permissible limit of 65 dB and should not be located in the basement. The stack should be vertically placed and should be above min. height of 3 mts.
  - iii. Prioritize plantation of endemic flora in landscaping.
  - iv. NOC / Clearance from the Director General Civil Aviation (DGCA) / INS Hansa, as applicable, be obtained considering the proximity of site to training air base.
  - v. Solar water heating installation plan with its capacity. Provision for solar photo-voltaic CFL and LED lighting in parking and common spaces.
  - vi. Application of solar shading devices, thermal insulation of roofs, walls.
  - vii. Storm-water drainage plan on the site.
  - viii. Installation of lightening arrestors.

- ix. Highlight measures taken for Green Building features.
- x. Proposed Traffic Management Plan for main as well as approach road at Entry / Exit points.
- xi. Compliance to Office Memorandum (O. M.) issued by the Ministry of Environment and Forests (MoEF) dated 18<sup>th</sup> May 2012 in respect of institutionalizing Corporate Environmental Responsibility (CER).
- xii. Budgetary provision for monitoring and sustainability of the proposed Environment Management Plan (EMP).

Accordingly, **SEAC has decided to recommend the proposal** subject to submission / undertaking by the Project Proponent (PP) in respect of mandatory compliance to above-referred observations.

2. Proposed expansion of Hostel building by **(BITS) Pilani, Goa Campus**, Sancoale village, Mormugao Taluka. (*environmental consultant: M/s Aditya Environmental Services, Mumbai*)
  - i. Submission of contingency plan with suitable report and statement / report stating provision of water harvesting initiatives.

Accordingly, **SEAC has decided to recommend the proposal** subject to submission of compliance to above-referred observation.

3. Proposed construction of residential complex in chalta no. 34, P.T. sheet No. 129, Margao, Gogal, by **M/s Prudential developers Pvt. Ltd.**, Margao. (*environmental consultant: M/s Aditya Environmental Services, Mumbai*).
  - i. To establish a monitoring protocol to carry out microbiological testing of rain-stored water as secondary domestic source on regular basis and to submit the compliance to SEAC / SEIAA. This clause should be also included in the “Agreement” to be executed between the Builder and the Buyer.
  - ii. Provision to implement rain water harvesting for storm-water in terms of infiltration wells along with grease filter to effectively recharge groundwater.
  - iii. Submit a fire risk management report and Disaster Management Plan (DMP).
  - iv. Submit NOC from the Forest Department regarding tree cutting.
  - v. Landscape plan to incorporate “open butterfly garden” and plant “food and host trees”.

- vi. Submission of budgetary outlay / commitment to the Forest Dept. in view of tree cutting proposed.
- vii. Installation of solar photovoltaic lights in common areas and provision for foot lighting at staircases.
- viii. Submission of demolition and debris management plan for exiting structures, copy of tenant's settlement documents.
- ix. Submit information on green building features in terms of architectural features and planning.
- x. Compliance to Office Memorandum (O. M.) issued by the Ministry of Environment and Forests (MoEF) dated 18<sup>th</sup> May 2012 in respect of institutionalizing Corporate Environmental Responsibility (CER).

Accordingly, **SEAC has decided to recommend the proposal** subject to submission / undertaking by the Project Proponent (PP) in respect of mandatory compliance to above-referred observations.

- 4. Proposed Residential complex in survey no. 209/1-A, Ponda by **M/s Maharudra Real estate, Ponda.** (*environmental consultant: M/s Aditya Environmental Services, Mumbai*)
  - i. Certificate in respect of land conversion and land settlement which is approved by the Town & Country Planning (TCP) Department.
  - ii. Inventory of flora and fauna through Functional Area Expert (Ecology & Biodiversity) of PP's Consultant concerned.
  - iii. Prioritization of endemic species should be considered in landscape management. Also in-situ conservation of endemic flora encountered if any at the project site.
  - iv. Budgetary outlay and commitment to State Forest Department in event of IWPA Schedule-I species if encountered.
  - v. Backup power provision for fire pumps.
  - vi. Solar water heating installation plan with its capacity. Provision for solar photovoltaic CFL and LED lighting in parking and common spaces.
  - vii. Submit storm water drainage plan for the site
  - viii. Submit a fire risk management report and Disaster Management Plan (DMP)
  - ix. Proposed Traffic Management Plan for main as well as approach road at Entry / Exit points.

- x. Compliance to Office Memorandum (O. M.) issued by the Ministry of Environment and Forests (MoEF) dated 18<sup>th</sup> May 2012 in respect of institutionalizing Corporate Environmental Responsibility (CER).

Accordingly, **SEAC has decided to recommend the proposal** subject to submission / undertaking by the Project Proponent (PP) in respect of mandatory compliance to above-referred observations.

5. Proposed expansion of Hostel building in survey no. 58/1-C-3, Poriem, Sattari by **Goa Institute of Management (GIM), Sanquelim Goa campus. (environmental consultant - M/s Sadekar Enviro Engineers Pvt Ltd., Panaji)**
  - i. Submission of three independent drawings / plans for proposed expansion activity which include - (a) construction of building for faculty accommodation, (b) student's hostel and (c) cafeteria.
  - ii. Detailed floral and avifaunal inventory highlighting presence of species of scheduled -1, if any. Post-EC monitoring compliance – i.e. submission of ephemeral flush vegetation (EFV) inventories to SEAC/SEIAA.
  - iii. Compliance to Office Memorandum (O. M.) issued by the Ministry of Environment and Forests (MoEF) dated 18<sup>th</sup> May 2012 in respect of institutionalizing Corporate Environmental Responsibility (CER).

Accordingly, **SEAC has decided to recommend the proposal** subject to submission / undertaking by the Project Proponent (PP) in respect of mandatory compliance to above-referred observations.

6. Proposed construction of a Residential complex (EVORA) in P.T. Sheet no. 121/ Chalta no. 2,3,4,38,39 & P.T.S no. 130/ Chalta no. 33 at St. Inez, Tiswadi by **M/s Marvel Resort Pvt. Ltd., Panaji. (environmental consultant: M/s Aditya Environmental Services, Mumbai).**
  - i. Submission of documents regarding tenants as well as affidavit towards rehabilitation of tenants, relocation of religious structure and land conversion 'Sanad'.
  - ii. Submission of aero-biological study regarding air quality and post-EC and post-Occupancy monitoring of airborne pathogens / spores by accredited environmental laboratory on quarterly basis.
  - iii. Submission of fire risk management report and Disaster Management Plan (DMP).
  - iv. Solar water heating installation plan with its capacity. Provision for solar photo-voltaic CFL and LED lighting in parking and common spaces.
  - v. Submit storm water drainage plan for the site.

- vi. Provision and maintenance of green buffer of trees around the periphery of the site through a dedicated work force. The species may be selected taking into view the need to intercept odour/dust.
- vii. Proposed Traffic Management Plan for main as well as approach road at Entry / Exit points.
- viii. Submission of demolition and debris management plan for existing structures.
- ix. Compliance to Office Memorandum (O. M.) issued by the Ministry of Environment and Forests (MoEF) dated 18<sup>th</sup> May 2012 in respect of institutionalizing Corporate Environmental Responsibility (CER) and assisting in ongoing efforts of rehabilitation of St. Inez creek.

Accordingly, **SEAC has decided to recommend the proposal** subject to submission / undertaking by the Project Proponent (PP) in respect of mandatory compliance to above-referred observations.

- 7. Proposed construction of Housing and Commercial development in survey no. 33/1 of Khandola village, Ponda talaku by **M/s. Gera Developments Pvt. Ltd., Pune.** (*environmental consultant: M/s Aditya Environmental Services, Mumbai*).
  - i. Re-submission of revised proposal on the lines of presentation given by PP before the SEAC highlighting salient points of differences from the activity to which EC was issued by the Authority earlier.
  - ii. Submission of details w.r.t. MBBR technology proposed to be used in the STP and utilization / availability of effective microbial (EM) culture used therein.
  - iii. NOC from Forest Dept. for tree cutting and budgetary provision for tree plantation to be deposited to the Forest Department or any agency identified by SEAC/SEIAA
  - iv. Submission of a 'Sanad' and land conversion
  - v. Submission of Fire risk management plan and Disaster Management Plan (DMP).
  - vi. Installation of solar water heating system in each villa as a alternate energy source
  - vii. The green belt development details with prioritization of endemic flora and
  - viii. Feasibility of use of hybrid system (solar photovoltaic + wind) as an alternate source of energy for the proposed project.
  - ix. Submission of current status of court cases, if any.

- x. Compliance to Office Memorandum (O. M.) issued by the Ministry of Environment and Forests (MoEF) dated 18<sup>th</sup> May 2012 in respect of institutionalizing Corporate Environmental Responsibility (CER) and CSR initiatives on adopted Comunidade land in the vicinity of the said site.

Accordingly, **Goa-SEAC has decided to forward the proposal to Goa-SEIAA**, for which prior EC has already been issued by them, as referred to in (i) above, for consideration subject to compliance to above mentioned observations.

8. Proposed construction of Residential- cum- commercial building with compound wall in survey nos. 99/1 &2, 105/1, 2&3 – C3 in Taleigao village, Tiswadi Taluka by **M/s Mahadhan Real Estate Ltd., Vasco-da-Gama. (environmental consultant - M/s Sadekar Enviro Engineers Pvt Ltd., Panaji)**
  - i. The environmental consultant and the representatives of Project Proponent (PP) could not satisfactorily respond/reply to the technical queries raised by the SEAC Members on the project report submitted and project presentation made before the Committee.
  - ii. In view of the above, the PP may be directed to resubmit the project proposal with responses to compliances to the pertinent queries raised during the presentation/follow-up discussion.
    - a. Existing land use / land cover and likelihood impacts due to proposed construction activity.
    - b. The nature of landform - i.e. accumulation of sand-sized soil and its conservation, if any, present within the project site.
    - c. Agro-diversity inventory within 2-Km radius of the site and floral and avifaunal inventory at the project site to rule out species of conservation concern, if any.
    - d. Details of Solid Waste Management plan and sewage treatment plant.
    - e. Submission of Geo-technical soil report as well as geo-hydrological studies of the project site.
    - f. Measures proposed to be undertaken towards storm-water management / land reclamation, if any.
    - g. Setback in respect of access around the building should have pay load of 30 metric tons.
    - h. Submission of fire risk management and Disaster Management Plan (DMP).

- i. Compliance to Office Memorandum (O. M.) issued by the Ministry of Environment and Forests (MoEF) dated 18<sup>th</sup> May 2012 in respect of institutionalizing Corporate Environmental Responsibility (CER).

Accordingly, **SEAC has decided that the project will be freshly appraised after compliance to points referred to above.**

The meeting ended with vote of thanks to the Chair.

**Dr. Manoj R. Borkar** \_\_\_\_\_ *Sd. /-* \_\_\_\_\_

**Mrs. Anita. A. B. Barreto** \_\_\_\_\_ *Sd. /-* \_\_\_\_\_

**Mr. Suhas Gaonkar** \_\_\_\_\_ *Sd. /-* \_\_\_\_\_

**Dr. P. K. John** \_\_\_\_\_ *Sd. /-* \_\_\_\_\_

**Mrs. Ashwini Pai Panandikar** \_\_\_\_\_ *Sd. /-* \_\_\_\_\_

**Dr. Jagannath Hirkude** \_\_\_\_\_ *Sd. /-* \_\_\_\_\_

*Sd. /-*  
**Dr. Mohan R. Girap**  
Secretary, Goa-SEAC

*Sd. /-*  
**Mr. Antonio Jaime C. Afonso**  
Chairman, Goa-SEAC

Place: Patto, Panaji  
Date: 27<sup>th</sup> May 2014.

## ANNEXURE – 1

### List of members who attended the twenty-second Goa-SEAC meeting

- |  |   |                  |
|--|---|------------------|
| 1. Prof. Antonio Jaime C. Afonso, St.Istevam |   | <b>Chairman</b>  |
| 2. Dr. Manoj R. Borkar, Nuvvem               | - | <i>Member</i>    |
| 3. Mrs. Anita B. Barreto, Panaji.            | - | <i>Member</i>    |
| 4. Mr. Suhas Gaonkar, Cuncolim               | - | <i>Member</i>    |
| 5. Dr. P. K. John, Alto-St.Cruz              | - | <i>Member</i>    |
| 6. Mrs. Ashwini Pai Panandikar , Margao      | - | Member           |
| 7. Mr. Jagannath Hikude, Verna               | - | <i>Member</i>    |
| 8. Dr. Mohan R. Girap, Panaji                | - | <i>Secretary</i> |

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