

**MINUTES OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ORISSA HELD ON 11TH DECEMBER , 2009**

The meeting of State Level Expert Appraisal Committee, Orissa was held on 11th Decmber, 2009 in the Conference Hall of Orissa State Pollution Control Board, Bhubaneswar at 11.00 AM. Dr. Gagan Bihari Nityananda Chainy, Chairman, SEAC Orissa chaired the meeting. The following members were present in the meeting.

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| 1. | Dr. Gagan Bihari Nityananda Chainy | - | Chairman |
| 2. | Professor (Dr.) Swoyam Prakash Rout | - | Member |
| 3. | Dr. Harekrishna Nayak, | - | Member |
| 4. | Dr. Moheshwar Patra, | - | Member |
| 5. | Prof.R.C. Mohanty | - | Member |
| 6. | Prof. Kumar Das | - | Member |
| 7. | Dr. Surendra Nath Das | - | Member |

The following issues were discussed and decided

1. The minutes of previous meeting was confirm ed by the Committee members.
2. The Committee decided to go for a field visit to some of the buliding/infrastructure project sites for which clarifications are sought /being sought and Paradeep port. The field visit will be made preferably in the 2nd or 3rd week of January , 2010.
3. The Committee decided to send information on total number of seatings attended by the members with dates of meetings for claim of sitting fees and conveyance allowance as admissible.
4. The committee also decided to send a proposals to SEIAA for appointment of fulltime staff/officers and furnishing of the space for the functioning of the SEAC. .
5. **CONSIDERATION OF PREVIOUS PROPOSALS :**

Item No :1

**CENTRAL GOVERNMENT EMPLOYEES WELFARE HOUSING ORGANISATION,
MINISTRY OF URBAN EMPLOYMENT & POVERTY ALLEVIATION,
GOVERNMENT OF INDIA, AT – BEGUNIABARAH, BHUBANESWAR, ORISSA**

This is a proposal for building and construction project consisting of 13 blocks of S+4 and one block of G+1 storied (community centre) structures with a total built-up area of 56941.95 sqm. The proposal was placed in the SEAC meeting held

CHAIRMAN, SEAC

SECRETARY, SEAC

during 12th & 13th October, 2009 . SEAC decided to consider grant of environmental clearance after receipt of the approved building plan. The SEAC verified the approved building plan and BDA approval letter and recommended for grant of environmental clearance in favour of the project with validity till 31.3.2011 during which construction should be completed with the following stipulated conditions :

I. GENERAL.

- i). The applicant (Project proponents) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by them in Form-1, Form-1A, and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
- ii) The applicant will take statutory clearance/approval/permissions from the concerned authorities in respect of his project as and when required.
- iii) The applicants will submit half-yearly compliance report for post-environmental clearance monitoring in respect of the stipulated terms and conditions in the Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Orissa, on 1st June and 1st December of each calendar year.
- iv) The applicants will adopt the prescribed norms, and standards provided in the National Building Code of India, 2005, specially relating to :
 - a) Fire protection and life safety of occupants of the buildings.
 - b) Safety of personnel during construction, operation and demolition of buildings.
 - c) Lighting and natural ventilation of buildings.
 - d) Safety from electrical fire, shock and lightening of the buildings.
 - e) Air-conditions, heating and mechanical ventilation of the buildings
 - f) Acoustics and noise control of the buildings.
 - g) Maintenance and functioning with emissions from generators supplying power to common space / residential in case of power failure along with fuel handling /storage.
 - h) Installation of lifts and escalators in the buildings.
 - i) Water supply, drainage and sanitation including solid waste management.
 - j) Landscaping of surrounding areas of the buildings.

II. CONSTRUCTION PHASE.

- (i) Provision shall be made for the housing of construction labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The

housing may be in the form of temporary structures to be removed after the completion of the project.

- (ii) A First-Aid Room will be provided in the project site both during construction and operation of the project.
- (iii) All the top soil excavated during construction activities should be stored separately for use in land filling, horticulture/landscape development within the project site.
- (iv) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and will be disposed off taking the necessary precautions for general safety and health aspects of people only in approved sites with the approval of competent authority.
- (v) Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
- (vi) Construction spoils, including bituminous material and other hazardous materials should not be allowed to contaminate watercourses, ground water and dump sites by following safe dumping / disposal practice as per statutory rules and norms with necessary approval of the Orissa Pollution Control Board.
- (vii) The diesel generator sets to be used during construction phase shall be low sulphur diesel type and should conform to Environment (Protection) Rules 1986 prescribed for air and noise emission standards.
- (viii) The diesel required for operating DG sets shall be stored in underground tanks and, if required, clearance from the Chief Controller of Explosives shall be taken.
- (ix) Vehicles used for bringing construction materials to the site should be in good condition and should have a pollution check certificate and conform to statutory air and noise emission standards and should be operated only during non-peak hours of the day.
- (x) Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/ OPCB.
- (xi) Fly ash bricks should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and as amended on 27th August, 2003. The above condition is applicable as the project site is located within the 100 Km of Thermal Power Stations.
- (xii) Ready mixed concrete would be used in building construction.
- (xiii) Storm water control and its re-use should be as per CGWB and BIS standards for these applications.
- (xiv) Water demand during construction should be optimized by adopting best practices without compromising quality.

- (xv) Permission to draw minimal quantity of ground water shall be obtained from the competent Authority prior to construction/operation of the project.
- (xvi) Separation of grey and black water supplies and collection from residential units should be done by the use of dual plumbing line. Grey and black water should be treated separately before recycling/ reuse.
- (xvii) Fixtures for showers, toilet flushing and drinking water should be of low flow type and restricted to requirements by use of aerators, avoiding wastage pressure reducing devices or sensor based controls.
- (xviii) Use of glass may be maximum upto 40% of total outer wall area to reduce the energy consumption and load on air-conditioning. If necessary, high quality double glass with special reflective coating may be used in the windows.
- (xix) Roof should meet the prescribed requirement as per Energy Conservation Building Code by using appropriate thermal insulation material.
- (xx) Opaque wall should meet prescriptive requirements as per Energy Conservation Building Code.
- (xxi) The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments etc. as per National Building Code of India, 2005 including protection measures from lightening etc.
- (xxii) Regular supervision of the above and other measures for monitoring should be in place all through the construction phase to avoid disturbances and pollution to the surroundings.

III. OPERATION PHASE.

- i) The installation of the Sewage Treatment Plant (STP) should be certified by a competent agency and a report in this regard should be submitted to the SEIAA, Orissa before the project is commissioned for operation. Treated effluent from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Orissa State Pollution Control Board. Necessary measures should be taken to mitigate the odour problem from STP.
- ii) The STP sludge should not be dried nor incinerated within the project site and should be disposed off as per the norms of SPCB,Orissa.
- iii) The project proponent will ensure that under no circumstances, the environment is polluted due to non-functioning / under performance of sewerage disposal system of the project. To achieve this, a stand-by STP with similar capacity should be installed to be put into service during the maintenance /over hauling of the original STP,

- iv) The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. Necessary approval / permission may be obtained from the concerned authorities
- v) Diesel power generating sets proposed as source of back-up power for lifts elevators and common area illumination during operation phase should be of enclosed type and conform to Environment Protection (EP) rules 1986. The height of the stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets put together. Low sulphur diesel should be used. The location of the DG sets may be decided in consultation with Orissa State Pollution Control Board. Care may be taken to avoid disposal of smoke /pollutants from DG sets in the residential area.
- vi) Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time, the noise levels measured at the boundary of the sites shall be restricted to the permissible levels to comply with the prevalent regulations.
- vii) Plantation of trees shall be done as per approved layout plan.
- viii) Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the run off, pre-treatment must be done to remove suspended matter, oil, grease and other soluble components as per norms. The bore-well for rainwater recharging should be kept at least 5 mts. above the highest ground water table. The technology may preferably be adopted from a commercial firm with performance guarantee.
- ix) Weep holes in the compound walls shall be provided to ensure natural drainage of excessive rain water in the project area during the monsoon period after the harvesting operations.
- x) The ground water level and its quality should be monitored regularly in consultation with Central / State Ground Water Authority.
- xi) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking of vehicles by both residents and visitors should be fully internalized and no public space should be utilized for this purpose.
- xii) A Report on the energy conservation measures confirming to energy conservation norms finalized by the Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc and submitted to the SEIAA, Orissa in three months time before operation/ habitation.
- xiii) Provisions of solar hot water storage / supplies at the roof top may be made as per statutory norms of CPCB/MoEF/SPCB, Orissa.
- xiv) 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. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid toxic contamination. Use of solar panels may be adopted to the maximum extent possible, especially for street lights.

- xv) The building blocks should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation including plantation/ horticulture.
- xvi) The proponent shall furnish detailed information on disposal of E-wastes which includes obsolete personal computers and associated components and dispose the e-wastes as per CPCB / MoEF guidelines. A detailed proposal to this effect shall be submitted to the authority (SEIAA).
- xvii) The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes like Annual allocation and maintenance / monitoring etc. and expenditure for this fund should be reported to the SEIAA, Orissa.

The above mentioned stipulated conditions shall be complied in time-bound manner. Failure to comply with any of the conditions mentioned above may result in cancellation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

ITEM NO. 2

PROPOSAL OF TUSULA MINOR IRRIGATION PROJECT IN BARKOTE OF DEOGARH DISTRICT

Tusula MIP is an on going diversion scheme near Tusula village in Barkote block of Deogarh District in Orissa State. Administrative approval for Rs. 89.41 lakhs has been accorded vide letter No. 31254 dt. 5.9.03 of W.R. Deptt. for execution of the project under NABARD ASSISTANCE (RIDF-VII). The project has been designed to provide irrigation to 162.00 ha of kharif and 20.00 ha of rabi ayacut through left side and right side distribution systems of length 2.60 km and 3.87 km respectively. Forest and non-forest land over 4.04 acres and 11.15 acres respectively are required for construction of the project. The nearby villages are cronicly affected by drought. So after construction of the project, the socio-economic condition of the villagers will improve.

There will be no environmental impact during execution or after completion of this M.I. project. The project also does not cause any submergence.

The project site is nearer to the forest area. The distribution system is to pass through village forest land over 0.80 km against the total length of 6.47 km. No tree cutting is involved during execution of the canal system. The construction of head works has been completed without damaging any vegetation. Blasting will not be required during excavation of canals as the area comes under hard soil and gravelly soil zone. As such, there is no such adverse impact on the environment during execution of the project. The project proponent has assured that all the terms and conditions as applicable to avoid environmental pollution will be followed during construction of the project.

The case was placed in the meeting held on 12-13 October and the proponent was to furnish duly filled Form-I and pre-feasibility report. The project proponent furnished the information and the Committee verified the documents. **The SEAC considered the project under Category-B2 and exempted it from EIA/EMP studies /reports and recommended for grant of Environmental Clearance with the following stipulated conditions :**

- 1) This environmental clearance is valid for a period of 10 years from the date of issue of EC.
- 2) The project proponent shall submit Review Report on the status of compliance of the stipulated EC conditions including results of monitored data if any (both in hard copies as well as by e-mail) to the SEIAA after 5 years.
- 3) Occurrence of stagnant pools/slow moving water channels during construction and operation of the project providing breeding source for vector mosquitoes and other parasites may be avoided. The water should be properly channelised so that no small pool and poodles are allowed to be formed. Even after taking due precautions, due to unforeseen situations, breeding of mosquitoes and resultant malaria or mosquitoes-borne diseases can increase. If such a situation arises, It will be the responsibility of project authorities to take all steps, i.e. spraying of insecticides in all the affected/ likely to be affected project area and surrounding 3 km. area, keeping the flight range of mosquitoes in consideration.
- 4) Statutory Clearance from any other Authority, if required, should be obtained as and when required.
- 5) Adequate free fuel arrangement should be made for the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.

- 6) Medical facilities should also be provided to the labourers, staying at the project sites.
- 7) All the labourers to be engaged for construction works should be thoroughly examined by health care personnel from time to time and adequately treated if necessary. First - aid medical facilities should be provided at the project site.
- 8) All the equipment which are likely to generate high noise levels are to be fully mollified (noise reduction measures).
- 9) Consolidation and compilation of the muck should be carried out in the muck dump sites and the dump sites should be above high flood level.
- 10) Adequate financial provision should be made in the total budget of the project for implementation of the environmental safeguard measures.
- 11) The responsibility of implementation of environmental safeguards rests fully with the project proponent .
- 12) The project proponent would take adequate measures to ensure that the PM in ambient air qualities within the [prescribed](#) limit.
- 13) Adequate steps shall be taken by the project proponent to protect flora and fauna of the project area.
- 14) In case of change in the scope of the project or implementation, it would require a fresh appraisal.
- 15) The proponent will plant sufficient number of trees along the canal embankments.
- 16) The SEIAA reserves the right to add additional safeguard measures subsequently, if found necessary.
- 17) THE SEIAA reserves the rights to cancel this EC and to take action as per the provisions of the Environment (Protection) Act, 1986, in case of noncompliance of any of the above stipulated conditions.

ITEM NO 3

BHUTUDA MANGANESE MINE OF M/S. AXL EXPLORATION (P) LTD., AT - BHUTUDA , DIST - SUNDARGARH.

The proposal was placed for consideration in the SEAC meeting held on [13th May 2009](#) ToR was issued to the project proponent for preparation of EIA / EMP. It was proposed for production of manganese ore of 1,00,000 TPA over a mine lease area 40.469 ha at Bhutuda in the district of Sundergarh. The project proponent has requested to change lease area to 40.226 ha in

place of 40.469 ha and submitted related documents. During discussion, the SEAC observed the following :

- i) Document submitted is not clearly visible
- ii) The proponent has to resubmit the document for the modified lease area as well as the approved mining plan for the modified lease area from the concerned competent authority.

The SEAC decided to reconsider the appeal of the proponent after receiving the above documents and the TOR issued earlier remain valid.

ITEM NO 3

PROPOSAL FOR KESHARI ROLLING MILLS PRIVATE LIMITED FOR RE-ROLLING MILLS FOR PRODUCTION CAPACITY 72000 TPA AT – KALUNGA, DIST – SUNDARGARH

The case for issue of ToR was placed in the SEAC meeting held on 17-18th August,2009 and the ToR was issued vide letter No 112/SEIAA/44 dt. 29.9.09. The proponent requested for the revised ToR as the proposed project is to be located in an industrial area and certain points related to induction furnace are not applicable to the project. During discussion, the SEAC observed the followings:

ToR Serial number	ToR issued	Amended as	Reason
1	Location of national parks and reserve forests within 10 km. radius should specifically be mentioned.	No Change	The committee felt that including 10 km radius as study zone would reflect the overall existing pollution level in the area as there are a number of polluting industries
2	A list of industries containing name and category with production capacity within 10 km radius should be incorporated	No Change	The committee felt that including 10 km radius as study zone would reflect the overall existing pollution level in the area as there are a number of polluting industries

5	Data on air emissions, wastewater generation and solid waste management for the existing plant should be incorporated.	Baseline Data on air emissions, wastewater generation should be incorporated.	The committee felt to include base line data as it would reflect the overall existing pollution level in the area as there are number of polluting industries
8	Air quality modeling for particulate matter and other gaseous emissions from the shop floor needs to be done. Air Pollution Control System (APCS) for the control of emissions from the Induction Furnace to be specified.	Air quality modeling for particulate matter and other gaseous emissions and Pollution Control System (APCS) for the controlling of emissions of the rerolling mill are to be specified.	The reheating and cooling of ingots /materials during processing are likely to emit certain pollutants
10	An action plan to control and monitor secondary fugitive emissions from all the sources as per CPCB guidelines should be included.	Waived	Not applicable since no fugitive emission is expected from the proposed area
11	Permission for the drawl of water from concerned authority and water balance data including quantity of effluent generated, recycled, reused and discharged is to be provided. Methods adopted/ to be adopted for the effluent treatment, if any with water conservation should be included.	Permission for the drawl of water from the concerned authority and water balance data including quantity to be recycled, reused and discharged are to be provided. Methods adopted/ to be adopted to catch oil and grease should be included.	Amended as per standard requirement of the project proposed
13	Action plan for solid / hazardous waste generation, storage, utilization and disposal particularly Slag from IF, dust from APCS etc. shall be prepared and provided.	Action plan for solid / hazardous waste generation, storage, utilization and disposal shall be prepared and provided.	Amended as per standard requirement of the unit proposed

14	Risk assessment and damage control needs to be addressed. Onsite and off-site disaster management plan shall be prepared and included in the EMP	Risk assessment and damage control need to be addressed and included in the EMP	The disaster management requirements are not applicable since it is a small unit located in an industrial area not prone to natural disaster.
16	Green belt development plan in 33 % area and a scheme for rainwater harvesting have to be put in place.	Green belt should be developed in the peripheral area and a scheme for rainwater harvesting may be put in place.	33% of green belt development is not applicable since it covers a small area inside industrial area
19	EMP should include the concept of waste-minimisation, recycle / reuse / recover techniques, Energy conservation, and natural resource conservation	EMP should include the concept of waste-minimisation and conservation of natural resource	it is a small unit
20	EMP should include a clear map for plantation/green belt.	EMP should include plantation/green belt.	Inclusion of map is not required since it is a small area and green belt is to be developed around the periphery
23	The proponent has agreed to use only furnace oil of low sulfur content and eliminate use of pulverized coal or producer gas as mentioned in the proposal. Otherwise, the EIA/EMP may be prepared keeping these aspects in view in addition to storage, emissions, wastes etc. associated with fuel oil.	No Change	Type of fuel to be used should be clearly mentioned in the EIA and impact to be assessed based on it

ITEM NO 5

PROPOSAL OF TURPI MINOR IRRIGATION PROJECT AT TURPI, PO – KARTAPONDA, DIST – KALAHANDI LOCALLY NAME AS KJ IN BHAWANIPATNA BLOCK OF KALAHANDI DISTRICT

Turpi Minor Irrigation Project is a Reservoir scheme Project which is going to be constructed across the Khalan nalla near the village Turpi in Bhawanipatna Block of

Kalahandi District .The Project is situated around 30 km away from the District Head Quarters and it is around 3km away from the nearby village Turpi. This area is coming under the drought prone area of Kalahandi District for which the farmers are facing a lot of problems in cultivation every year due to non availability of irrigation facilities to this area(Either by Major, Medium or Minor Irrigation project). In order to meet the irrigation requirement of the farmers of this area, construction of this Project is much more essential. 117.43 Acres of Private land has already been acquired for the construction of this Project (Both for Head works & Canal system) and there will not be any kind of objection by the land owners during the construction. A diversion proposal for acquisition of 6.08ha of Forest land(1.46ha Reserve Forest and 4.62ha of village forest) has already been initiated since January 2006 & it is still pending due to non availability of Environmental Clearance. There will not be any displacement of the inhabitants as it is situated far away from the habitation. The inhabitants of this area are much more anxious for this Project as this area will be green soon after its construction. This Project will provide assured irrigation to 809ha of land during khariff and 200ha of land during Rabi cultivation. The farmers of Turpi, Chheliamal, Padiagaon & Themera will be benefited by this Project. There is also a possibility of pisci-culture in this Project .The living as well as financial standard of the inhabitants of this area will improve soon after the construction of this Project. The case was placed in the SEAC meeting held on 20-22 July,09 and the proponent was asked to furnish filled up application Form- I and prefeasibility report. There will be no environmental impact during execution or after completion of this M.I. project. The project also does not cause any submergence.

The Executive Engineer of the project submitted filled up application FORM-I and prefeasibility report .**The SEAC considered the project under Category-B2 and exempted it from EIA/EMP studies /reports and recommended for grant of**

Environmental Clearance with the following stipulated conditions :

- 1) This environmental clearance is valid for a period of 10 years from the date of issue of EC.
- 2) The project proponent shall submit Review Report on the status of compliance of the stipulated EC conditions including results of monitored data if any (both in hard copies as well as by e-mail) to the SEIAA after 5 years.
- 3) Occurrence of stagnant pools/slow moving water channels during construction and operation of the project providing breeding source for vector mosquitoes and other parasites may be avoided. The water should be properly channelised so that no small pool and poodles are allowed to be formed. Even after taking due precautions, due to unforeseen situations, breeding of mosquitoes and resultant malaria or mosquitoes- borne diseases can increase. If such a situation arises, It will be the responsibility of project authorities to take all steps, i.e. spraying of insecticides in all the affected/ likely to be affected project area and surrounding 3 km. area, keeping the flight range of mosquitoes in consideration.
- 4) Statutory Clearance from any other Authority, if required, should be obtained as and when required.
- 5) Adequate free fuel arrangement should be made for the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.
- 6) Medical facilities should also be provided to the labourers, staying at the project sites.
- 7) All the labourers to be engaged for construction works should be thoroughly examined by health care personnel from time to time and adequately treated if necessary. First -aid medical facilities should be provided at the project site.
- 8) All the equipment which are likely to generate high noise levels are to be fully mollified (noise reduction measures).
- 9) Consolidation and compilation of the muck should be carried out in the muck dump sites and the dump sites should be above high flood level.
- 10) Adequate financial provision should be made in the total budget of the project for implementation of the environmental safeguard measures.
- 11) The responsibility of implementation of environmental safeguards rests fully with the project proponent .

- 12) The project proponent would take adequate measures to ensure that the PM in ambient air quality is within the **prescribed** limit.
- 13) Adequate steps shall be taken by the project proponent to protect flora and fauna of the project area.
- 14) In case of change in the scope of the project or implementation, it would require a fresh appraisal.
- 15) The proponent will plant sufficient number of trees along the canal embankments.
- 16) The SEIAA reserves the right to add additional safeguard measures subsequently, if found necessary.
- 17) THE SEIAA reserves the rights to cancel this EC and to take action the as per the provisions of the Environment (Protection) Act, 1986, in case of noncompliance of any of the above stipulated conditions.

**(GAGAN BIHARI NITYANANDA CHAINY)
CHAIRMAN, SEAC**

**(DR. SWOYAM PRAKASH ROUT)
MEMBER, SEAC**

**(DR. HAREKRISHNA NAYAK)
MEMBER, SEAC**

**(DR. MOHESHWAR PATRA)
MEMBER, SEAC**

**(SRI SASANKA SEKHAR PATNAIK)
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**(DR. SURENDRA NATH DAS)
MEMBER, SEAC**

**(DR. R. C. MOHANTY)
MEMBER, SEAC**

**(PROF. KUMAR DAS)
MEMBER, SEAC**

**(SRI. S. DAS)
SECRETARY, SEAC**

CHAIRMAN, SEAC

SECRETARY, SEAC

