

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 07TH JUNE, 2017**

The SEAC met on 07.06.2016 at 11:00 AM in the Conference Hall of Odisha State Pollution Control Board, Bhubaneswar under the Chairmanship of Dr. B.K. Patnaik. The following members were present in the meeting.

1. Dr. B.K. Patnaik	-	Chairman
2. Sri B.P. Singh	-	Member
3. Dr. Dibakar Swain	-	Member
4. Prof. P.K. Mohanty	-	Member
5. Dr. D.K. Rout	-	Member
6. Dr. S.K. Biswal	-	Member
7. Sri. B.C. Prusty	-	Member
8. Dr. S.C. Nayak	-	Member
9. Sri Sridhar Behera	-	Member
10. Dr. R.C. Mohanty	-	Member
11. Sri. A.C. Mohanty	-	Member

The agenda-wise proceedings and recommendations of the committee are detailed below:

ITEM NO. 1

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR SARUMUHAN AND CHUNGHUTI LIMESTONE AND DOLOMITE MINES OF M/S B.D. PATNAIK MINERALS PVT. LTD. AT SARUMUHAN AND CHUNAGHUTI IN THE DISTRICT OF SUNDARGARH OVER AN AREA OF 44.742 HA. (EC).

The proponent did not attend the meeting. The committee decided to defer the proposal to next meeting.

ITEM NO. 2

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR GROUP CENTRE AND RANGE HEAD QUARTER OF CRPF AT GOSHALA, SAMBALPUR WITH TOTAL BUILT UP AREA 1,54,139.6 M² (EC).

Central Reserve Police Force (CRPF), a Paramilitary Force under Ministry of Home Affairs, Govt. of India has proposed to develop a Group Centre and Range Headquarter at Goshala, Sambalpur, Odisha on an area of 6,96,059.30 Sq. m (172.0 Acres) with total built up area 1,54,139.6 m². CRPF has entrusted the planning and execution work to Central Public Works Department (CPWD), Ministry of Urban Development, Govt. of India. The main purpose of the project is to create a closed premise so as to provide support and reinforce the action against Naxal and other Antinational groups by way of:

- Providing administrative support to the CRPF personnel on ground.
- Providing residential facility to the CRPF personnel in the form of barracks and for personnel living with families in the form of quarters as per the latest norms of Government of India.
- Providing secure and aesthetic ambience with greenery and landscaping.



Secretary, SEAC

The total net plot area of project is estimated to be 6,96,059.30 m² (172.0 Acres). The total built up area of the project is 1,54,139.6 m². A total of 1,571 dwelling units of various types (Type II, Type III, Type IV & V) have been proposed for housing CRPF personnel in addition to various administrative and service utilities. The total population estimated for the project is 11,738 persons comprising of fixed and floating population. The Estimated Development Cost of the project is approx. ` 313.03 Crores.

The total water requirements will be approx. 1608 KLD during operation phase out of which total fresh water requirement is 841.7KLD. The source of water supply during construction phase will be private water tankers and during operational phase will be municipal water supply. It is expected that the project will generate approx. 1038 KLD of waste water. The waste water will be treated by an onsite STP

of 1250 KLD capacity. Treated water will be brought through private water tankers and will be used for flushing and horticulture purpose. A total of twenty five Rain Water Harvesting pits are proposed for artificial rain water recharge within the project premises.

Adequate parking area provision of 45,047 m² will be provided for the personnel within the premises against a required parking area of 44,521.15 m². The power supply shall be supplied by State Electricity Board. The estimated connected load for the proposed project will be 190 kVA for the first phase. At present, no DG power backup option is proposed. However, if the need arises the same may be considered in the future. During the operation phase, waste will comprise domestic waste.

The total solid waste generated from the project shall be mainly domestic waste and estimated quantity of the waste shall be approx. 4,565 kg per day. A total landscape area of 1,33,927 m² has been proposed to be earmarked between peripheral green belt, avenue plantations & lawns within the project premises. A 20 bedded hospital will be constructed as a part of the proposed project activity.

The Consultant, **M/s ENVIRTA Sustainable Solutions India Pvt. Ltd. 167/10-B, Vasundhara, Ghaziabad, Uttar Pradesh** made a detailed presentation on behalf of the proponent. The consultant during the presentation intimated that they have already collected baseline data during the period 01st March, 2017 to 31st May, 2017 and requested the committee to allow them to use the monitoring data collected during the above period for preparation of EIA report. The committee asked the consultant to show the map indicating location of the monitoring stations from where data have already been collected. But, the consultant did not produce the same. Further, the committee felt that the quality of presentation made by the consultant is not satisfactory. The committee decided that a letter to be issued to the consultant with a copy to the SEIAA, Odisha that they should come prepared with all the information / documents henceforth while coming for presentation of any proposal before the SEAC.

However, the committee observed that the project will be providing residential facility to the CRPF personnel and decided to allow the consultant to use monitoring data collected during the period 01st March, 2017 to 31st May, 2017 for preparation of EIA report.


Considering the information furnished and presentation made by the **consultant M/s ENVIRTA Sustainable Solutions India Pvt. Ltd. 167/10-B, Vasundhara, Ghaziabad, Uttar**



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Pradesh on behalf of the project proponent, the SEAC prescribed the following TORs for undertaking detailed EIA study.

1. Profile of the project proponent, name and contact address, implementing organization, organizational chart, project consultants etc., should be mentioned clearly.
2. Land description- plot/ survey numbers, Village, Tehsil, District, State and area of the land must be mentioned clearly.
3. Description of Centre/State/Local regulations and standards applicable for townships and area development projects should be discussed.
4. Goal and objectives of the proposed project, significance of the project both at local and regional level, relevance of the project in light of the existing development plans of the region are to be mentioned clearly.
5. Background information and overall scenario of the proposed activity in the Indian Context, procedures adopted for selection, Criteria for selection of the site for the proposed activity, such as environmental, socio-economic, minimization of impacts, ecological sensitivity, Impact of existing activities on the proposed activity, etc. should be spelt out.
6. Resource and manpower requirements have to be detailed. Time frame for project initiation, implementation and completion should be detailed.
7. A map of the study area 5 km from the boundary of the project area, delineating the major topographical features such as land use, drainage, locations of habitats, major constructions including roads, railways, pipelines, industries if any in the area are to be mentioned.
8. A map covering aerial distance of 15 kms from the boundary of the proposed project area delineating environmental sensitive areas as specified in Form I of EIA notification dated 14th Sep 06. In the same map the details of environmental sensitive areas present within a radial distance of 1 Km from the project boundary shall be specifically shown
9. Land use map of the study area in 1: 10,000 scale based on high resolution satellite imagery delineating the forest, agricultural land, water bodies, settlements, and other cultural features is to be submitted.
10. Contour map on 1:10000 scale for the study area showing the various proposed breakup of the land.
11. Description of the project site, geology, topography, climate, transport and connectivity, demographic aspects, socio, cultural and economic aspects, villages, settlements should be given.
12. Detailed layout plan of proposed project development, communication facilities, access/approach roads, landscape, sewage disposal facilities, and waste disposal etc. to be given. Layout plan of proposed development of built up areas with covered construction such as DG Set rooms, Administrative buildings, Utilities such as Main and Stand By Power, Water supply installations etc. to be given.


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13. The environmental impacts of construction and operation are established during the early phases of site selection and planning. Planning, site selection and design form an important stage in the development of these projects and will determine their environment impact(s).
14. Map of the study area clearly delineating the location of various monitoring stations (air/ water / soil and noise) superimposed with location of habitats are to be shown. Monitoring should be done as per CPCB guidelines. Primary data should be collected for one season except rainy season. Monitoring of the parameters should be carried out within the study area.
15. Study of land use pattern, habitation, cropping pattern, forest cover, environmentally sensitive places etc. employing remote sensing techniques and ground truth and also through secondary data sources.
16. Baseline data of air pollutant parameters extending an area of 5 KMs from the project should be monitored at a number of locations. Description of base line data of ambient air parameters namely RSPM, nitrogen dioxide, Sulphur dioxide, and carbon monoxide are to be collected. One season data is to be monitored other than monsoon as per the CPCB Norms. Sampling locations are to be located as per CPCB norms.
17. Baseline data of noise at the project area and the neighbourhood habitat areas is to be ascertained. Daytime and night time data should be collected.
18. Identify Project activities, including construction phase, which may affect surface water or groundwater. Estimate water intake requirements and identify the source of water to be used. Describe how water will be taken from the surface water / river and conveyed to the site. Ground water budgeting has to be provided. Rainwater harvesting has to be detailed out.
19. Baseline water quality from all sources such as ground water, municipal water, surface water need to be determined and compared to the water quality norms prescribed for drinking water and State PWD specifications for construction water. Quantity of wastewater is to be provided.
20. Baseline data on the flora and fauna for the study area is to be detailed out. An inventory map is to be prepared along with a description of the existing terrestrial, wetland and aquatic vegetation. If there are any rare and endangered species in the study area they are to be clearly mentioned.
21. Impact of the project during construction and operational phases for generation of waste is to be assessed. Options for minimization of solid waste and environmentally compactable disposal are to be given. Management and disposal of temporary structures, made during construction phase are to be addressed. Mitigation measures for handling biomedical wastes, e-wastes, municipal solid waste are to be detailed.
22. Impacts on air quality during the construction and operation phase should be predicted. The existing surrounding features of the study area and impact on them should be addressed separately. Mitigative measures are to be proposed during the construction stage as well as the operational stage of the project.



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23. Impact of project construction/operation on the noise on account of construction equipment and road traffic is to be studied. Site plan and details for construction management showing the layout of noise and dust barriers should be given.
24. Impact of construction and operational phases on the surface and ground water on account of the building construction is to be estimated. Prediction of ground water contamination and suggested mitigating measures to minimize the pollution level.
25. Impact of project during construction and operational phases on the biological environment on account of project activity is to be detailed.
26. Predicted impact on the communities of the proposed activity is to be given. Impact on surroundings on socio-economic status is to be detailed. Mitigation measures to reduce adverse effects are to be given.
27. Describe the project energy requirements, infrastructure requirements needed for this activity. Discuss the steps taken to integrate the needs of other stakeholders into the location and design of access infrastructure to reduce and manage overall environmental impacts from resource development.
28. Estimate any environmental implications from transportation (rail, road) related emissions associated with the construction and operational phases and suggest suitable options. Provide a site plan showing the details of connectivity existing and proposed road and rail transport.
29. Provide a site plan showing buildings, roads, and open spaces, confirming the hierarchy of roads.
30. Discuss any expected change in traffic volume by Average Annual Daily Traffic (AADT) and any seasonal variability in traffic volume (include mitigation measures) prior to construction, during construction and at full site operation.
31. Discuss the impact of increased vehicle traffic and requirements for access improvements on roads in the site development area as a result of the Project, considering other existing and planned developments and operations in the region including what measures will be taken to reduce traffic and enhance vehicle safety on external roads.
32. Use of alternate renewable resources such as solar / wind power etc is to be discussed. Discuss the options considered for supplying the power required for the Project and the environmental implications, including opportunities to increase the energy efficiency of the Project.
33. Details of the renewable energy systems (sizing and design), building costs and integration details are to be provided.
34. Emergency plans for any environmental risks and such as earthquakes is to be included.
35. Plan of action for conservation of natural resources and recycle waste materials due to the project activity in the construction and operational phase of the project is to be discussed.



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36. Detailed EMP may be formulated to mitigate the residual impacts which should inter alia include the impact due to change in land use; due to loss of agricultural land and grazing land besides other impacts of the projects. Budgeting of the EMP may be included in EIA.
37. Any litigation(s) pending against the proposed project and / or any directions or orders passed by any court of law/ any statutory authority against the project is to be detailed out.
38. **This Terms of References (TORs) is valid for a period of three years from the date of issue of TORs for submission of the EIA/EMP report. (This is in confirmation with the MoEF, Govt. of India office memorandum No. J-11013/41/2006-IAII(I) dt.22.3.10 and office memorandum No. J-11013/41/2006-IA-II(I) (part) dt.8.10.2014).**

ITEM NO. 3

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR KASAB-DAHAPADA SAND QUARRY OVER AN AREA OF 101.35 ACRES AT VILLAGE KASAB-DAHAPADA, TAHASIL – BALASORE IN THE DISTRICT OF BALASORE OF SRI KARUNAKAR DAS (EC).

The proposed Kasaba-Dahapada Sand Quarry of Sri Karuna Kar Das 101.35acres/41.015ha is a river sand mining project. The mining lease area located at village Kasaba-Dahapada under Balasore Tahasil of Balasore District in the state of Odisha., The said lease is located in survey of India Topo Sheet No.73K/14,bounded by Latitude:21° 31' 46.0" to 21° 32' 48.2" N Longitude:86° 55' 26.1" to 86° 56' 26.2"E. The said Mining Lease over 101.35 acres / 41.015ha has been granted in favour of Sri Karuna Kar Das, At-Gambharia Samil Kantabania, Po-Dahapada, PS- Sahadev khunta, Tahasil-Balasore, Dist-Balasore vide letter no. 2337, dated 27.03.2015 by Tahasildar, Balasore. The said lease area is non-forest Govt. free waste land (Nadi). Mining plan has been approved by Director of Geology, Odisha, Bhubaneswar vide letter no. 7228, dated 07.09.2015. As per the Approved Mining Plan, the lessee has proposed to excavate 41,515 Cu.M (average) per annum of sand during the plan period from 2015-16 to 2019-20 by means of open cast manual method.

The mode of the deposits, geomorphology of the area and its hydrological condition are some of the factors that favours the open cast method of mining. In this deposit, the mining is done by dry-pit method i.e. Sand will be excavated within the active channel on dry intermittent or ephemeral stream beds. The excavator is used for removal of sand from the pits. The sands are extracted, loaded and transferred from pits to the users through trucks and tractors. The mining is done on single shift basis.

Managerial & supervisory personnel will be only 03 in number. The lessee will employ 52 skilled semiskilled and unskilled workers for the excavation of sand. The mining lease area falls within the river course of Budhabalanga River, below the high flood level. It therefore cannot be put to any other use. The kism of land under the lease is Nadi. Before the lease was granted it was part of the river course. During the mining of river bed the mining would be resorted to a depth of 1m only. Post mining also the area will remain part of active river course.

The baseline information on micro-meteorological data, ambient air quality, water quality, noise levels and soil quality have been generated for the period of March 2016 to May 2016 by



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M/s Kalyani Laboratories Pvt. Ltd. (MoEF & NABL Accredited Laboratory). ToR was issued by the SEAC, Odisha vide letter no. 180/SEAC-17, dated 19.03.2016 for conducting EIA study. Public hearing for the proposal was conducted on 16.11.2016.

Considering the information / documents furnished and presentation made by the **Consultant M/s. Kalyani Laboratories , Bhubaneswar, on behalf of the proponent**, the SEAC decided to take decision on the proposal after receipt of the following information / documents:


1. A small bridge passing through the lease area. The mine has proposed to maintain safety zone of 425 meter from the bridge of the one quarry and 330 meter from another quarry. The mining plan to be modified and approved as per the proposed safety zone from the bridge.
2. Details of proposed CSR activities with proposed annual outlay.
3. Details of transportation road with a detailed proposal to maintain the transportation road with financial outlay.
4. Distance of the National Highway from the bridge.
5. No. of trees to be planted with proposed allocation for plantation.

ITEM NO.4

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR EXPANSION OF AMRI HOSPITALS FROM 400 BEDS TO 500 BEDS OF M/S AMRI HOSPITAL WITH BUILT UP AREA 37,485 M² (EC).

1. AMRI Hospital, Bhubaneswar is situated near Aiginia in Bhubaneswar block of Khurda district in the state of Odisha. The project site is located at latitude 20° 15' 36.61" N and longitude 85° 46' 38.46" E and the area comes under Survey of India toposheet No-73H/15.
2. The proponent had obtained Environment Clearance from SEIAA, Odisha vide letter no. SEIAA/202/ENV, Dated 02.04.2011 which was valid for 5 years for total built up area 37,485 m². The Hospital is already in operation. They have obtained amended EC for increase in bed strength from 315 to 400 from SEIAA, Odisha vide letter no. SEIAA/2718, Dated 20.03.2017. The proponent has already obtained Consent to Establish & Consent to Operate from State Pollution Control Board, Odisha for increase in bed strength from 315 to 400.
3. The proponent has now applied for Environmental Clearance for increase in bed strength from 400 to 500. However, there is no change in plot area and built up area due to increase in bed capacity from 400 to 500.
4. The detail area statement is provided below:

Area detail	Area in sqm
Plot Area	20235 sqm
Total Built up Area	37485 sqm
Lower Basement	8735 sqm
Upper Basement	3400.14 sqm
Total Green Area	4047 sqm (20.0 %)


Secretary, SEAC

Area detail	Area in sqm
Road Area	5040 sqm (25.0 %)
Ground Coverage	6693 sqm (33.07 %)

5. The following table shows comparison between existing facility and additional requirement.

PARTICULARS	DETAILS		
	Existing	Expansion	Total
Hospital Bed	400	100	500
Plot Area	20235.0 sqm	-	20235.0 sqm
Built up Area	37485.0 sqm	-	37485.0 sqm
Water Requirement	232 KLD	45 KLD	272 KLD
Bio-medical Waste	200.0 Kg/day	50.0 Kg/day	250.0 Kg/day
Solid Waste Generation	384.0 Kg/day	--	384.0 Kg/day
Power Requirement	1200 KVA	100 KVA	1300 KW
Project Cost	412.23 Crores	6.06 Crores	418.29 Crores

6. REQUIREMENT FOR THE PROJECT:

Water requirement:

The existing water use is 234.0 KLD which will be increased to 268.5 KLD by a quantity of 34.5 KLD for the extra nos. of beds which will be sourced from Municipal water.

Waste Water Management:

Around 221.6 KLD of waste water will be generated from the project after bed expansion. The same will be treated in the existing STP of capacity 230 KLD and ETP of capacity 50 KLD.

Solid Waste Management:

From the existing project solid waste has been generated about 394 kg/day. BMC has collecting & treatment of Solid waste.

Biomedical Waste Management:

Bio-medical waste generation from Existing 400 beds is 200 Kg/d and Bio-medical waste generation from Proposed 100 beds is 50 Kg/d. M/s Sani Clean has taken the responsibility of collecting & treatment of Bio-Medical Waste generated.

Power requirement:

The daily power requirement for the hospital is preliminarily assessed as 1300 KW (Existing & Expansion) source from CESU of Odisha State Electricity Board. In order to meet emergency power requirements during the grid failure, there is provision of 2 nos. of DG sets of 1010 KVA (2 nos.) capacities for power back up in the Hospital Project.

Firefighting Installations:

Firefighting system will be installed as per recommendation of the Firefighting Officer, Odisha and as per the guideline of NBC (Part-4).

Estimated Project cost (Proposed Project):



Secretary, SEAC

Total Capital Cost = ₹ 6.06 Crores.

7. The consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar** made a detailed presentation before the SEAC on behalf of the project proponent. The committee decided to take decision on the proposal after the project proponent furnish following information / documents:
- (i) A comparison statement of all the parameters for first EC, first bed expansion and second expansion is to be submitted.
 - (ii) Percentage of energy used from solar / non-conventional source.
 - (iii) Copy of building plan approval for the proposed expansion.
 - (iv) Certificate from the Pollution Control Board, Odisha about performance of the existing STP and ETP.
 - (v) Additional DG sets proposed to be installed.
 - (vi) Certified copy of the latest Monitoring Report of the Regional Office of the MoEF&CC, Govt. of India, Bhubaneswar as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in the previous environmental clearance shall be provided. In addition, status of compliance of Consent to Operate conditions for the ongoing / existing operation of the project from SPCB shall be submitted.
 - (vii) Green belt dimension to be mentioned and reflected in the layout map approved by the BDA along with species and numbers thereof.

The SEAC also decided to take decision on the proposal after a field visit to the site by the Sub-committee of SEAC.

ITEM NO.5

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR PROPOSED IB+UB+13 STORIED COMMERCIAL-CUM- RESIDENTIAL BUILDING AT MOUZA - PATRAPADA, BHUBANESWAR IN THE DISTRICT OF KHURDA OF SRI PRASANT KUMAR ACHARYA WITH TOTAL BUILT UP AREA 37686 M² (EC).

1. SITE AND SURROUNDING:

This is a proposal for commercial-cum-residential project of Sri Prasant Kumar Acharya with total built up area 37686 m². The proposed site is located at Patrapada, Bhubaneswar, Odisha. The Geographical co-ordinate of the project site is: Latitude - 20° 14' 38.14" N & Longitude - 85° 46' 34.97" E. The project site is well connected with National Highway NH-5. The nearest railway station is Bhubaneswar Railway station at a distance of approx. 7.4 Km in North East direction. The nearest airport is Biju Patnaik Airport at a distance of approx. 4.5 Km in East direction from project site.



Secretary, SEAC

2. MICRO-METEOROLOGY:

The maximum temperature is about 41.0° C and the minimum temperature is 20.0° C felt in the area. The area receives rainfall from the south-west monsoon. The average annual rainfall in the area is 1452.62 mm.

3. THE BUILDING DETAILS OF THE PROJECT:

Total Plot Area = 10765 sqm
Total Built up Area = 37686 sqm
Ground Coverage = 4278 sqm
Total landscape Area = 2200 sqm (20.4 %)
Total Road Area = 4287 sqm (39.8 %)

4. REQUIREMENT FOR THE PROJECT:

Power requirement:

The daily power requirement for the proposed complex is preliminarily assessed as **1700 KW** source from CESU of Odisha State Electricity Board. In order to meet emergency power requirements during the grid failure, there is provision of 2 nos. of DG set having 500 KVA capacities for power back up in the Commercial-cum-Residential Building Project.

Water requirement:

Fresh make up of 127.0 m³/day will be required for the project which will be sourced from Ground water.

Waste Water Management:

The project will generate around 165.6 KLD of waste water, which will be treated in the STP of capacity 180 KLD. The proponent has proposed to discharge 95 KLD of waste water to outside drain after treatment.

Solid Waste Management :

From the residential complex solid waste in form of food waste from kitchen and miscellaneous waste will be generated @ 0.45 kg/capita/day, which will be about 682 x 0.45 = 306.9 kg/day. The generated solid waste from the residential complex will be segregated as biodegradable and non-biodegradable. This will be collected in separate coloured beans. Proper waste management practices will be adopted during the collection, storing and disposal of the generated solid waste. Waste generation from floating people will be 68 x 0.1 = 6.8 kg/day. Waste generated from Commercial people will be @ 0.15 kg/capita/day, which will be about 2125 x 0.15 = 318.75 kg/day. Solid waste from sweeping and Dry Garbage containing non biodegradable wastes like polythene bags, metal, ceramic Waste, glass etc. shall be stored in separate garbage bin and send to approved agency for final disposal.



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Fire fighting Installations: Fire fighting system will be installed as per recommendation of the Fire fighting Officer, Odisha and as per the guideline of NBC (part-4).

5. Estimated Project cost:


Total Capital Cost = ₹ 90 Crores

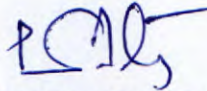
6. The consultant **M/s Centre for Envotech & Management Consultancy Pvt. Ltd., Bhubaneswar** made a detailed presentation before the SEAC on behalf of the project proponent. The committee decided to take decision on the proposal after the project proponent furnish following information / documents:

- (i) Detailed land schedule with kisam of land.
- (ii) Use of ground water should be avoided. They should approach to the Water Resources Department, Govt. of Odisha for use of surface water. A detailed proposal to this effect is to be submitted.


The SEAC also decided to take decision on the proposal after a field visit to the site by the Sub-committee of SEAC.

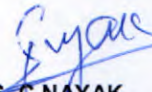

DR. B. K. PATNAIK
CHAIRMAN



SRI B.P. SINGH
MEMBER, SEAC

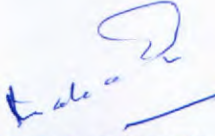

PROF. P.K. MOHANTY
MEMBER, SEAC

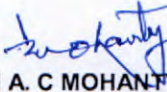

DR. D.K. ROUT
MEMBER



SRI B. C. PRUSTY
MEMBER, SEAC


DR. S. C. NAYAK
MEMBER, SEAC

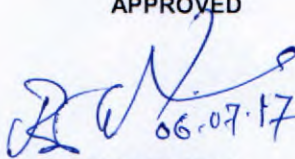


SRI S. BEHERA
MEMBER, SEAC


DR. R.C. MOHANTY
MEMBER, SEAC


SRI A. C. MOHANTY
MEMBER, SEAC


DR. D. SWAIN
MEMBER, SEAC

DR. S.K. BISWAL
MEMBER, SEAC

APPROVED

06.07.17
CHAIRMAN, SEAC

Secretary, SEAC

