

**PROCEEDINGS OF THE MEETING OF STATE LEVEL EXPERT APPRAISAL
COMMITTEE, ODISHA HELD ON 21ST SEPTEMBER, 2016**

The SEAC met on 21st September, 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.

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

The following proposals were appraised and decision taken.

ITEM NO. 01

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CAPACITY EXPANSION OF LPG PLANT OF M/S BHARAT PETROLEUM CORPORAION LTD. AT – KHURDA, ODISHA. (EC).

M/s BPCL has set up a LPG Bulk Storage & filling Facility at Khurda, Odisha. The existing bulk LPG storage capacity is 370 MT. The present proposal is for increasing the storage by additional capacity of 900MT. The proposed project is classified under Schedule 6(b) "Isolated storage & handling of hazardous chemicals" Category B1. The current proposal has been submitted to the State Expert Appraisal Committee, Odisha for issuance of Environmental Clearance for the bulk LPG storage capacity of 1270MT. The total land is leased out by IDCO, under Khurda Municipality. The project is an expansion project to increase storage capacity by 900 MT, by installation of 3X300 MT mounded Storage Vessel; hence additional space is not required. All infrastructural facilities of the existing LPG Plant will be used for the project. There is no National Parks and Sanctuary within the 10km of Project Site. Barunai Reserved Forest and Jariput Protected Forest are located within 10 km radius of the project site. There will not be any impact for these two forest due to the proposed expansion. The product is received through Road Tanker. Product storage is done in above ground and mounded vessel. LPG is pumped to the carousal from which the cylinders of different sizes are filled under pressure The system described is intended for filling standard domestic & individual LPG cylinder, with a minimum number of operations, with process, production and monitoring function carried out with the help of sophisticated equipment and control system. Filling of cylinder of various capacity, storage of filled cylinders and distribution to dealers by truck. The Bottling Plant has a bulk storage capacity of 370MT. The proposed expansion is to include three mounded bullets of capacity 300MT each.

Secretary, SEAC

Existing storage capacity (MT)	Proposed storage capacity (MT)	Total storage capacity (MT)
2 x 60	3 x 300 (mounded bullets)	1270
2 x 125		

Land of area 12.913 acres has been leased to M/s BPCL. The total manpower employed onsite is 32 persons. There will be no change in manpower requirement for the expansion. Power consumption will be 210 kVA through Odisha State Electricity Board. There will be no change in power requirement for the expansion. As backup power 3 DG sets are installed with the following capacities

S.No.	Capacity (kVA)	Number
1	380	1
2	250	1
3	25	1

Total water requirement for the plant is 3KLD which is met through IDCO water supply. Cost for expansion is estimated at ` 3266 Lakhs.

The proponent made an appeal before the committee for exemption of public hearing as per MoEF&CC, Govt. of India OM dated 10th December, 2014 with a claim that the project is located within Khurda Industrial Estate, Khurda. The said OM of MoEF&CC, Govt. of India stipulates that the exemption of the public hearing is available to the projects or activities or units located within the Industrial Estates or Parks, which were notified prior to 14.09.2006 i.e. the EIA Notification, 2006 coming in to force. The members opined that the proponent should provide copy of the Govt. Notification as industrial estate prior to 14.09.2006 to consider their request for exemption of public hearing.

The TOR was issued to the proponent vide letter No. 572 dtd. 14.8.2015 for conducting EIA study and submit a draft final EIA report after conducting public hearing. The proponent again made a request for exemption of public hearing as per above Office Memorandum dated 10th December, 2014 of MoEF&CC, Govt. of India with a copy of the lease agreement between IDCO and Odisha Govt. that Govt. of Odisha with a view to rapid industrialization of the state had leased out 86.705 & 320 acre of land at Khurda in two phases to Orissa Industrial Infrastructure Development Corporation Ltd in the year 1983. The industrial estate at Khurda was set up by Odisha Industrial Infrastructure Development Corporation on the plot of land leased out to them as mentioned above for fulfilling the objective of the Govt. Orissa industrial Infrastructure Development Corporation has leased out plot No. 2285 and 2308 in Khurda Industrial Estate to Bharat Petroleum Corporation and these two plots were also mentioned in the above mentioned deed of agreement in the year 1983

From the above, it is found that the industrial estate had been notified prior to 14th September, 2006. Based on the above document, the SEAC recommended to exempt conducting public hearing of the proposal.

The proponent submitted final EIA/EMP report for grant of environmental clearance. Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s. ABC Techno Labs India Pvt. Ltd, Chennai** on behalf of the project proponent, the SEAC recommended for grant of environmental clearance valid for a period of 07 years with following stipulated conditions.

Secretary, SEAC

A. SPECIFIC CONDITIONS:

1. The total LPG storage facility shall as follows .:

Existing storage capacity (MT)	Proposed storage capacity (MT)	Total storage capacity (MT)
2 x 60	3 x 300 (mounded bullets)	1270

2. The project authority shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives and other authorities must be obtained before commissioning of expansion project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented
3. The project authority shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities. All safety measures shall be ensured during unloading, filling and at transfer points etc. Latest fire fighting system shall be ensured
4. Regular Ambient Air Quality Monitoring shall be carried out for LPG, VOC and HC besides other parameters in ambient air in and around the plant. The location and results of existing monitoring stations will be reviewed in consultation with the State Pollution Control Board, Odisha based on the occurrence of maximum ground level concentration and downwind direction of wind. Additional stations shall be set up, if required. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. Project authority shall submit the monitoring report in every six months.
5. The project authority shall install automatic leak detection systems and alarm system at all required places. Project authority shall install automatic interlocking shutdown systems in case of any leakage of gas. Adequate arrangements for prevention and control of fire hazards shall be provided.
6. A greenbelt of broad leaf local species shall be developed in at-least 33% of total area in and around the plant premises as per CPCB guidelines
7. Noise level will be within the approved limits of 80 dB (A). The practice of acoustic plant design shall be adopted to limit noise exposure for personnel to an 8 hr time weighted average of 90 db (A). The overall noise levels in and around the plant area shall be limited within the prescribed standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
8. Regularly monitoring of VOC and HC in the Work Zone Area in the plant shall be carried out and data be submitted to Ministry's Regional office at Bhubaneswar, Central Pollution Control Board, State Pollution Control Board, Odisha. Quarterly monitoring of fugitive emissions will be carried out as per the guidelines of Central Pollution Control Board.
9. Project authority shall provide adequate facility for proper treatment of industrial (if any) and domestic effluent to ensure the treated effluent quality within standard

Secretary, SEAC

prescribed by Ministry of Environment & Forests Government of India.

10. Any liquid effluent what so ever generated from industrial (if any) and domestic activities shall not be discharged into the river or any surface water bodies under any circumstances, and it shall be reused wholly in the process/plantation. Project authority shall provide sewage treatment system of adequate capacity for treatment of domestic effluent generated.
11. Project proponent shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated
12. The project authority shall harvest surface as well as rainwater from the rooftops of the building in the project and storm water drains to recharge ground water and use the same water for the various activities of the project to conserve fresh water

B. GENERAL CONDITION

1. Provision shall be made for the housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking (with proper safety arrangement), mobile toilets, mobile STP. safe drinking water, medical health care, crutch etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
2. Good house keeping practices shall be adopted. Regular removal of the dry leaves, grasses etc. around the storage vessels shall be ensured.
3. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act. Regular Occupational Health Surveillance Programme for the relevant diseases shall be carried out and the records shall be maintained properly for at least 10 years. Sufficient preventive measures shall be adopted to avoid direct exposure to emission and other Hydrocarbons etc.
4. Adequate funds shall be allocated for undertaking CSR activities (community welfare in and around the surrounding villages, environmental development activities apart from committed plantation). Details of activities shall also be submitted to State Pollution Control Board, Odisha. SEIAA, Odisha and Regional Office. MoEF&CC, Government of India, Bhubaneswar. The funds earmarked for the environment protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to State Pollution Control Board, Odisha. SEIAA, Odisha and Regional Office, MoEF&CC, Government of India, Bhubaneswar. Piped drinking water, school, development of pastureland for cattle feed and medical facilities as desired by Gram Panchayat(s) to be provided. Local labourers shall be given employment during construction. This should be exclusive of corporate CSR activities in the state.
5. The project authorities will provide adequate funds both recurring and nonrecurring to implement the conditions stipulated by the SEIAA, Odisha/ MoEF&CC, Government of India as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.
6. Half yearly report on the status of implementation of the stipulated conditions, monitoring data along with statistical interpretation and environment safeguards shall be submitted to the State Pollution Control Board, Odisha. SEIAA, Odisha and Regional Office. MoEF&CC, Government of India, Bhubaneswar. It will also be displayed on the website of the project authority
7. Regional Office of the MoEF&CC at Bhubaneswar will monitor the implementation of

Secretary, SEAC

the stipulated conditions. A complete set of documents including Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.

8. The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copy of clearance letter may be seen at Website of SEIAA, Odisha.
9. A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.
10. The issuance of this environmental clearance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does not authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local laws or regulations.
11. SEIAA, Odisha reserves the right to amend/cancel any of the conditions and add new conditions and make further stringent the emission/effluent limit as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.
12. In case of any deviation or alteration in the proposed project from those submitted to this SEIAA, Odisha for clearance, a fresh reference should be made to the SEIAA, Odisha to assess the adequacy of the condition(s) imposed and to add additional environment protection measures required, if any. No further expansion or modifications in the plant should be carried out without prior approval of the MoEF&CC, Govt. of India / SEIAA, Odisha.
13. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) act, 1986 and rules there under, Hazardous and other Wastes (Management and Trans Boundary Movement) Rules, 2016, the Public Liability Insurance Act, 1991 Manufacture. Storage and Import of Hazardous Chemicals Rules, 1989 along with their amendments and rules.

ITEM NO. 02

PROPOSAL FOR ENVIRONMENTAL CLEARANCE FOR CAPACITY EXPANSION OF POL DEPOT OF M/S BHARAT PETROLEUM CORPORATION LTD. AT – SOMNATHPUR INDUSTRIAL ESTATE, BALASORE, ODISHA (EC)

M/s BPCL has set up a POL Depot at Somnathpur, Odisha. The existing POL Depot with present storage Capacity is 17321 KL. The proposed project is an expansion project of one additional tank of 5000 KL capacity for storage of MS capacity of the POL depot will be increased to 22321 KL.

Existing storage capacity (KL)	Proposed additional storage capacity (KL)	Final capacity (KL)	storage
17321	5000	22321	

Change of product mix in existing tank is as follows:

Secretary, SEAC

Tank No.	Capacity(KL)	Product Stored at present	Product proposed to be stored
T-12	45	SKO	MS(Speed)
T-3	3406	FO	HSD
T-6	858	MS	SKO

The proposed project is classified under Schedule 6(b) "Isolated storage & handling of hazardous chemicals" Category B1. The total land is under possession of BPCL. All infrastructural facilities of the existing Depot will be used for the project. There is no Reserve Forest, Protected Forest, National Parks and Sanctuary within the 10km of Project Site. Land of area 16.43 acres has been leased to M/s BPCL. At present total 21 permanent staffs are available for total operation of Balasore Depot. In addition to that contract persons are also engaged for regular maintenance and operation of the Depot. Operation of the installation will be managed with the exiting staffs after replacement of the tanks. Power consumption will be through Grid of Odisha state Electricity board. There will be no change in power requirement for the expansion. As backup power 3 DG sets are installed with the following capacities

Sl.No.	Capacity (KVA)	Number
1	200	1
2	125	1
3	250	1

Total water requirement for the project will be 5 m³/day which is met through bore wells. This includes domestic consumption, tank farm washing, fire fighting etc. No additional water requirement is envisaged for the proposed expansion. The wastewater management philosophy is based on "Zero Discharge" concept. All oily effluents are diverted to Oil Water Separator (OWS). The waste water from OWS after removal of oil & after testing is used for greenery development within the depot. The collected slop oil is disposed off to third party for off-site recovery or recycling. Domestic Sewage generated at the depot is treated in septic tank and disposed via soak pit. Tank bottom sludge is generated while cleaning of oil storage tanks. The cleaning of oil storage tanks is done once in five years as per practice of Oil Industry. Total tank bottom sludge along with filters contaminated with oil thus generated is kept in secured, covered impermeable sludge pit located within depot at a central place earmarked for the purpose prior to disposal via incineration or bio-remediation. The spent or used oil will be stored at a specific location prior to safe disposal through MoEF/ State PCB approved registered recycler. Other hazardous wastes if any like spent batteries, waste oil, empty drums of oil/chemicals, fluorescent tubing etc. is disposed off in accordance with approved safe procedures. Cost for expansion is estimated as ` 1076 Lakhs.

The proponent made an appeal before the committee for exemption of public hearing as per MoEF&CC, Govt. of India OM dated 10th December, 2014 with a claim that the project is located within Somnathpur Industrial Estate, Balasore. The said OM of MoEF&CC, Govt. of India stipulates that the exemption of the public hearing is available to the projects or activities or units located within the Industrial Estates or Parks, which were notified prior to 14.09.2006 i.e. the EIA Notification, 2006 coming in to force. The members opined that the proponent should provide copy of the Govt. Notification as industrial estate prior to 14.09.2006 to consider their request for exemption of public hearing.

Secretary, SEAC

The TOR was issued to the proponent vide letter No. 574 dtd. 14.8.2015 for conducting EIA study and submit final EIA report after conducting public hearing. The proponent again made a request for exemption of public hearing as per above Office Memorandum dated 10th December, 2014 of MoEF&CC, Govt. of India with a copy of Gazettee notification No. 680 dtd. 2.5.1987, where in Govt. of Odisha have allotted land at Balasore to Odisha Industrial Infrastructure Development Corporation for the purpose of setting up industrial estate on those plots.

The proponent has also furnished a copy of handing over report of land by IDCO in the said industrial estate on 17.2.1998. From the above land handing over report of IDCO, it is found that the industrial estate had been notified prior to 14th September, 2006. Based on the above document, the SEAC recommended to exempt conducting public hearing of the proposal.

The proponent submitted final EIA/EMP report for grant of environmental clearance. Considering the information / documents furnished by the proponent and presentation made by the consultant **M/s. ABC Techno Labs India Pvt. Ltd, Chennai** on behalf of the project proponent, the SEAC recommended for grant of environmental clearance valid for a period of 07 years with following stipulated conditions.

A. SPECIFIC CONDITIONS :

1. Adequate buffer zone around the Petroleum Oil Terminal shall be provided, as may be required as per OISD or other statutory requirements.
2. Regular monitoring of VOC and HC in the work zone area in the plant premises shall be carried and data be submitted to Ministry's Regional Office at Bhubaneswar, CPCB and State Pollution Control Board, Odisha.
3. Vapor recovery system shall be installed to prevent leakage of vapor from tank/ vessels/processing and filling areas to ensure no hydrocarbon vapors are released unchecked.
4. The proponent shall obtain permission from the concerned authority for drawl of water.
5. The company shall construct the garland drain all around the project site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated streams. During rainy season, the storm water drains shall be connected to oil water separator and passed through guard pond. Water quality monitoring of guard pond shall be conducted and ensured that monitoring parameters shall not exceed the prescribed standards.
6. Effluent from washing of storage tanks in POL Depot shall be properly treated in oil water separator and treated wastewater shall conform to CPCB standards. No effluent shall be discharged outside the premises and 'Zero' effluent discharge concept shall be followed.
7. Oil Industry Safety Directorate guidelines regarding safety against fire, spillage, pollution control etc. shall be followed. Company should ensure no oil spillage occur during loading / unloading of petroleum products.
8. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous

Secretary, SEAC

chemicals etc. All the hazardous waste shall be properly treated and disposed of in accordance with the Hazardous and other Waste (Management and Trans-boundary Movement) Rules 2016..

9. Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented.
10. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
11. All storage tanks shall be provided with design features based on applicable OISD standards.
12. No change in the storage capacity and other facilities shall be made without getting proper approval from the Ministry.
13. Fully automated tank farm management system (TFMS) will be provided for accounting of products & reconciliation.
14. Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt, of India. Mock drill shall be conducted once in a month.
15. Bottom oil sludge shall be handled, stored and disposed as per CPCB/ MoEF guidelines. An action plan in this regard including bioremediation shall be submitted to the Ministry and its Regional Office at Bhopal within 3 months of issue of the letter.
16. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
17. Green belt shall be developed in 33% of the plot area to mitigate the effect of fugitive emission all around the plant in consultation with DFO as per CPCB guidelines. Thick green belt around POL depot should be ensured.
18. The Company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.
19. All the recommendations mentioned in the EMP/DMP shall be implemented.
20. Dedicated parking facility for loading and unloading of material should be provided in the POL Depot. Unit should develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
21. Company shall adopt Corporate Environment Policy as per the Ministry's O.M. No. J- 11013/41/2006-IA.II(I) dated 26th April, 2011 and implemented.
22. Adequate funds shall be allocated for undertaking CSR activities (community welfare in and around the surrounding villages, environmental development activities apart from committed plantation). Details of activities shall also be submitted to State Pollution Control Board, Odisha. SEIAA, Odisha and Regional Office. MoEF&CC, Government of India, Bhubaneswar. The funds earmarked for the environment protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to State Pollution Control Board, Odisha. SEIAA, Odisha and Regional Office, MoEF&CC, Government of India, Bhubaneswar. Piped drinking water, school, development of pastureland for cattle

Secretary, SEAC

feed and medical facilities as desired by Gram Panchayat(s) to be provided. Local labourers shall be given employment during construction. This should be exclusive of corporate CSR activities in the state.

23. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

1. The project authorities shall strictly adhere to the stipulations made by the State Government and State Pollution Control Board (SPCB).
2. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha. In case of deviations or alterations in the project proposal from those submitted to this SEIAA, Odisha for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
3. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
4. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
5. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
6. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
7. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
8. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
9. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the MoEF&CC, Govt. of India as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
10. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while

Secretary, SEAC

processing the proposal.

11. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
12. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
13. The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copy of clearance letter may be seen at Website of SEIAA, Odisha.
14. The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
15. The SEIAA, Odisha reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
16. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Waste (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

ITEM NO. 03

PROPOSAL OF BHAGABANPUR DECORATIVE STONE MINES OF M/S AMARJOTHI GRANITES PVT. LTD. FOR PRODUCTION OF DECORATIVE STONES OVER AN AREA OF 31.808 HA. IN VILLAGE BHAGABANPUR OF KUKUDAKHANDI TAHASIL IN GANJAM DISTRICT (TOR)

The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006 and amendment thereafter.

Bhagabanpur decorative stone mines over an area of 31.808 Ha was executed for 10 years w.e.f.17.01.1996 in favour of M/s Amarjothi Granites (India) Pvt. Ltd., having its registered office at Express estate, Mount Road, Chennai. The tenure of the lease period expired on 16.01.2006 and application for 1st renewal over an area of 31.808 hectares is under process for another term of 20 years from 17.01.2006 to 16.01.2026. Mining Plan for the period of five years i.e. 2005-06 to 2009-10 was approved on.17.01.2005 by The Directorate of Mines, Odisha.

Tenure of approved mining plan expired on 01.04.2010. Scheme of Mining could not be prepared during last 5 years from 2010-11 to 2014-15 since Mining Officer, Ganjam Circle, Berhampur did not issue transit permit because of non-payment of the penalty on

Secretary, SEAC

Lessee for outside working. Lessee approached the Hon'ble court and finally as per the direction of the Court; Mining Officer, Ganjam Circle, Berhampur issued transit permit till the disposal of renewal application. Accordingly, mining plan was prepared and approved for the period 2010-11 up to 2014-15. Scheme of mining is prepared under Rule 18(2) of GCDR, 1999 for 5 years from 2015-16 to 2019-20 (up to 31.03.2020) in the interest of safe and scientific mining, conservation of minerals and protection of environment.

The ML area is located in the Survey of India Top sheet no. 74 A/11. The latitude of the area is $19^{\circ} 20' 29''$ - $19^{\circ} 20' 47''$ N & Longitude – $84^{\circ} 42' 45''$ - $84^{\circ} 43' 20''$ E. The highway is located at a distance of 3 km from the mine site. The nearest railway station is at Berhampur at a distance of 12 Km from the ML area.

Mining is essentially done by opencast and semi mechanized method with the deployment of machines like jack hammer drill, compressor, hydraulic excavators & tippers. Excavator machine will be used to remove the overburden or weathered rocks. Decorative stone blocks will be recovered by Jack hammer deep hole drilling machine for splitting of dispatch-able blocks from bigger size blocks. There will be no use of explosives. Chemical in slurry form (mixed with water) will be poured in to the hole to split the decorative stone block along the line of the drill holes put at 10 inch/25cm interval to form medium size blocks.

Hydraulic excavator (shovel) will be used for tilting, lifting and loading of the blocks. These are to be shifted from quarry faces to dressing yard/ quarry floor. Pitcher/sledge hammers & chisels will be used to have well shaped blocks. The decorative stone blocks will be extracted, loaded and transferred from a quarry face to the stone cutting shop/processing plant/port through trailers/lorries/ trucks. Waste materials will be transported through tippers to the dumping yards.

For power requirement in the ML area DG sets has been procured. There will be use of about 10,000 liters of diesel per month in the DG set as well as the other mining machineries. No water will be required for this mining purpose. A total of 3.5 KLD of water is required for domestic, dust suppression and plantation purpose. The water will be extracted from ground water source.

The land schedule of the renewal mining lease of Bhagabanpur Decorative stone mines over an area of 31.808 Ha is coming under hilly waste land category. It is estimated that the geological reserve of decorative stone is 29,56,712 m³ and mineable reserve is 25,19,845 m³. At the rate of production of maximum 30,000 m³ per annum of decorative stone the life of mine has been estimated to be 78 years including the proposed scheme period.

During the scheme period 1,99,500 m³ (in-situ) or 2,39,400 m³ (Swollen) waste will be generated. The waste generated during the scheme period along with the existing waste of 8,395 cu.m will be dumped over an area of 2.480 Ha. The waste generated will be utilized concurrently for construction and maintenance of road inside and outside the lease area

The degraded land after the excavation of the stone boulder will be reclaimed with spreading of soil and manure and plantation over the area. Increasing Production activities vis-a-vis Mines development reflects around improvement of the nearby local area as well as excels the income level of the local people significantly.

Considering the information / documents furnished and presentation made by the **Consultant Kalyani Laboratories Pvt. Ltd, Bomikhal, Bhubaneswar** the SEAC decided to take decision on the proposal after receipt of following information / documents from the proponent.

Secretary, SEAC

1. Letter from Mining Officer indicating number of decorative mines operating within 500 mtrs from the periphery of the lease alongwith their operational status such as period of non-working of such mines.
2. The mine was operating since, September, 2009 with deemed approval and it was stopped operation after direction issued by the Steel & Mines Department. Copy of the direction issued by the Steel & Mines Department to stop operation is to be submitted.
3. The mine lease renewal was due since 17.1.2006. Reason of non-renewal of lease since long with supportive document.

DR. B. K PATNAIK
CHAIRMAN

DR. P.K. MOHANTY
MEMBER

DR. D. SWAIN
MEMBER, SEAC

SRI B. C. PRUSTRY
MEMBER, SEAC

DR. D. K ROUT
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