



State Environment Impact Assessment Authority, M.P.
(Ministry of Environment, Forest and Climate Change, Government of India)

Environmental Planning & Coordination Organization

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No.: 6732 /SEIAA/

Date: 19.2.21

To,

M/s Shivshakti Mining

Shri Surendra Sharma, Partner,

Narmada Colony, Gandhi Road, Murar,

Dist. Gwalior, MP – 474006

Sub: -Case No. 7715/2020: Prior Environmental Clearance for **Stone and Murrum Quarry** (Opencast Semi Mechanized Method) in an area of 3.330 ha. Stone - 73686 cum per annum, Murrum - 55540 cum per annum at Khasra No. 674, 587, 588, 589, 590 at Village - Ladera, Tehsil - Dabra, Dist. Gwalior (MP) by M/s Shivshakti Mining, Shri Surendra Sharma, Partner, Narmada Colony, Gandhi Road Murar, Dist. Gwalior, MP – 474006.

This has reference to your letter received in SEIAA office on 18.09.2020 and subsequent letters seeking Prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form - I, Pre-Feasibility Report, ToR and subsequently submission of EIA, Public Hearing and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

II. It has been noted that the proposal is for **Stone & Murum Quarry** in an area of 3.330 ha. The mining lease area is located in Khasra Nos. 674, 587, 588, 589, 590 at Village - Ladera, Tehsil - Dabra, Dist. Gwalior (M.P.). It lies at geographical co-ordinates at latitude 26°02'55.83" to 26°02'57.72" N and longitude 78°19'49.10" to 78°19'49.42" E. There is no National Park/Sanctuary within 10 Km radius. There is no forest boundary within 250 m. Mining Plan is approved by the DGM, Gwalior vide L.No. 9414-15/Mining Plan Cell-7/Gwalior/ N.k. 32/2020, Gwalior dated 10/09/2020.

The proposed project is for production capacity of Stone - 73686 cum per annum, Murrum - 55540 cum per annum. The mining will be carried out by opencast semi mechanized method. The total water requirement is 4.5 KLD KLD (2.0 KLD Dust Suppression +0.5 KLD Drinking and Domestic activity+2.0 KLD Green Belt) which shall be met from Tanker/Mine pit. The public hearing was conducted at Mining site at Near Steel Plant, Main Road, Village-Bilaua, Tehsil-Dabra, District-Gwalior on dtd. 12.01.2021 under chairmanship of ADM, Gwalior.

III. The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th September 2006.

- IV. Based on the information submitted, as at Para (II) above and others the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 661st meeting dtd. 17.02.2021 and decided to accept the recommendations of 479th SEAC meeting dtd. 11.02.2021.

Hence, Prior Environmental Clearance is granted for Stone and Murrum Quarry (Opencast Semi Mechanized Method) in an area of 3.330 ha. Stone - 73686 cum per annum, Murrum - 55540 cum per annum at Khasra No. 674, 587, 588, 589, 590 at Village - Ladera, Tehsil - Dabra, Dist. Gwalior (MP) for the lease period to M/s Shivshakti Mining, Shri Surendra Sharma, Partner, Narmada Colony, Gandhi Road, Murar, Dist. Gwalior, MP - 474006, subject to the compliance of following specific conditions as recommended by SEIAA & SEAC and subsequent Standard Conditions.

A. Specific Conditions

1. Before commencing any mining activity fencing shall be carried out all around the lease area. Proper watch and ward arrangements should be made with installation of signage at 4 corners of lease area to avoid any untoward incident involving public and animals by the PP.
2. PP shall demarcate a barrier zone of 7.5 m as no mining zone in the periphery of mining lease area and develop a green belt. Three row plantations shall be carried out in the greenbelt area in current year with proper watering arrangement.
3. PP shall not start mining activity before execution of lease agreement.
4. The depth of the pit shall be as per the Approved Mining Plan.
5. The mining operation shall be restricted to above ground water table and in no case it should intersect the ground water table. In case of working below the ground water table approval of the Central Ground Water Board shall be obtained.
6. PP shall ensure to construct garland drain with settling tank all around the lease area and regular cleaning & maintenance shall also be carried out by PP.
7. Commitment made by PP that trees exist in the two stretched area towards the North and South side of the lease and a natural drain is also exist in Southern side of lease area, these two patches shall be dealt as No Mining Area.
8. Total 5010 saplings of suitable tree species i.e. Pipal, Bargad, Sissoo, Neem, Aam, Amla, Mahua etc. shall be planted by PP in first three years under plantation programme at Mine lease boundary, approach road and Khasra No. 983 and 833 in consultation with Gram Panchayat/ District Administration. PP shall also explore and identify the chunk of land in the area from revenue record to carry out plantation programme as proposed.
9. PP shall ensure to construct pakka approach road and maintained it. Plantation will be carried out on both side of the approach road.
10. Payments of wages to the workers shall be done in consonance with the provisions in the labour laws.
11. PP shall ensure the proper water supply arrangements for dust suppression, regular sprinkling, plantation and drinking purposes especially in summer season.
12. PP shall ensure proper implementation of plantation, dust suppression, construction of approach road and maintenance of existing pakka road as part of Environmental Management Plan. Additional budget provision shall be made as part of EMP.
13. PP must ensure implementation of the following activities under CER :-

Village Name: Ladera (1st to 5th Year):

- ❖ Construction of 1 new classroom and toilet with overhead water supply facility in govt primary school at village Ladera.
- ❖ To provide basic furnitures and other items as needed including sports kit in govt primary school at village Ladera.
- ❖ Leveling of school playground & installation of the slides & sea-saw govt primary school at village Ladera.

- a) Organize half yearly health checkup camp in consultation with local Gram Panchayat at village Ladera.

PP shall ensure contribution of funds on behalf of village under Jal Jeewan Mission in consultation with Janpad Panchayat and PHED. PP shall give preference to develop/provide infrastructural facilities in schools or aganwadies of above villages. The modification to the above activities can be made with the permission of the district administration and need based activity for the development of nearby villages shall be implemented by PP in consultation with the District Collector and Gram Panchayat.

14. PP should ensure to submit half yearly compliance report and CSR activity report with photographs of plantation in MP-SEIAA. If PP is failed to upload or submit two consecutive half yearly compliance reports of EC conditions to concerned authority (SEIAA and Regional Office, MoEF&CC, Gol, Bhopal) than prior environmental clearance issued to PP will automatically be treated as cancelled/ revoked as per OM No. 930/SEIAA/2019 dated 30.05.2019 issued by MPSEIAA.

(A) PRE-MINING PHASE

15. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
16. Necessary consents for proposed activity shall be obtained from MPPCB and the air / water pollution control measures have to be installed as per the recommendation of MPPCB.
17. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
18. PP will also carry out fencing all around the lease area.
19. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
20. For dust suppression, regular sprinkling of water should be undertaken.
21. Haul road and shall be compacted on regular interval and transport road will be made pucca (tar road) and shall be constructed prior to operation of mine.
22. PP will obtain other necessary clearances/NOC from respective authorities.
23. Slope stability study shall be carried out before commencing the mining activities.
24. Reject stone shall be sold only after approval of the State Government as per the prevailing rules & regulations.

(B) MINING OPERATIONAL PHASE

25. No overcharging during blasting to avoid vibration.
26. Controlled and muffle blasting shall be carried out considering habitation SW (>500 meter) side of the lease.
27. Working height of the loading machines shall be compatible with bench configuration.
28. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
29. No explosive will be stored at the mine site.
30. No intermediate stacking is permitted at the mine site.
31. No dump shall be stacked outside the lease area.
32. Overhead sprinklers shall be provided in mine.
33. Curtaining of site shall be done through thick plantation all around the boundaries of all part of lease. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for five years including casualty replacement. Initially, dense plantation shall be developed along the site boundary (in three rows) to provide additional protection in one year only.
34. Peripheral plantation all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP a minimum of 5000 trees shall be planted on barrier zone, backfilled area and along the transportation route.
35. Transportation of material shall be done in covered vehicles.
36. Transportation of minerals shall not be carried out through forest area.
37. The OB shall be reutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.

38. Garland drain and bund along with settling tank will be maintained in the boundary side and around dump to prevent siltation of low lying areas and in rush of water into the mine. The size of the drain will be (1.5 m Wide & 1 m Deep & 1050 m Long). The settling tank will be 04 in number of size of 4 m wide, 10 m long & 2.5 m deep.
39. All garland drains shall be connected to settling tanks through settling pits and settled water shall be used for dust suppression, green belt development and beneficiation plant. Regular de-silting of drains and pits should be carried out.
40. For dust suppression over head sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.
41. The existing and proposed land use plan of the mine is as follows:

Particulars	Present Area in (ha)	After 5 years Area in (ha)	At the end of mine life Area in (ha)
Pits	0.00	2.3276	-
Office & Rest Shelter (barrier zone)	0.000	0.0100	0.000
Plantation (within Barrier Zone)	0.000	0.9924	0.9924
Water Body	0.000	0.000	2.3276
Unused	3.330	0.000	0.0100
Total	3.330	3.330	3.330

42. Appropriate and submitted activities shall be taken up for social up-liftment of the Region. Funds reserved towards the same shall be utilized through Gram Panchayat. Further any need base and appropriate activity may be taken up in coordination with local panchayat.
43. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
44. The commitments made in the public hearing are to be fulfilled by the PP.
45. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
46. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

47. In the proposed EMP, capital cost is Rs.12.667 Lakh is proposed and Rs.3.83 Lakh /year as recurring expenses.
48. For this project PP has proposed following physical targets under as Corporate Environment Responsibility (CER) for remaining project period :

Village Name	Particular	Year wise
Ladera	<ul style="list-style-type: none"> Construction of 1 new Classroom and a toilet at village govt primary school of Ladera along with Overhead water supply facility Supply of basic school furniture to village govt primary school Ladera and other items as needed including sports kit Half yearly Health Checkup camp at village Ladera in consultation with local Gram Panchayat Distribution of Masks & Sanitizers to the local villagers of Ladera in 1st year only. Development and maintenance of grassland on a nearby suitable government land of village Ladera (for 1st, 2nd , 3rd, 4th and 5th year)** 	1st to 5th year ** OM No 22-34/2018-IA.III, dated 16.01.2020 from MOEFF &CC Government of India

49. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be implemented through monitoring cell. In case the allocated EMP budget for mitigative measures to

control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.

50. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.

B. Standard Conditions

1. All activities / mitigative measures proposed by PP in Environmental Impact Assessment and approved by SEAC must be ensured.
2. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
3. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
4. Blast vibrations study shall be conducted and submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within six months. The study shall also provide measures for prevention of blasting associated impact on nearby houses and agricultural fields.
5. Controlled blasting techniques with sequential drilling shall be adopted. The blasting shall be carried out in the day time only.
6. Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines.
7. A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within 5 years in advance of final mine closure for approval.
8. No change in the calendar plan including excavation, quantum of mineral and waste shall be made.
9. Mining will be carried out as per the approved mining plan. In case of any violation of mining plan, the Environmental Clearance given by SEIAA will stand cancelled.
10. Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.
11. The transportation of the minerals extracted from the mining area shall be limited to day hours time only.
12. Maintenance of near by local roads through which transportation of minerals are undertaken shall be carried out by the company regularly at its own expenses. The roads shall be black topped.
13. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.
14. Trenches / garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of check dams and gully plugs shall be constructed across seasonal/ perennial Nallahs, if any, flowing through the ML area and silts arrested. De- silting at regular intervals shall be carried out.
15. The project proponent will ensure necessary protection measures around the mine pit, waste dumps and garland drain.
16. Top soil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (wherever applicable) for reclamation and rehabilitation of mined out area. Top soil shall be separately stacked for utilization later for reclamation and shall not be stacked along with over burden.
17. Over burden (OB) shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 20 m, each stage shall preferably be of

maximum 10 m and overall slope of the dump shall not exceed 35°. The OB dump shall be backfilled and shall be scientifically vegetated with suitable native species to prevent erosion & surface run off.

18. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB on six monthly basis.
19. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO / Agriculture Deptt. Herbs & shrubs shall also form a part of afforestation programme besides tree plantation. The company shall involve local people for plantation programme. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB every year.
20. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of minerals and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. The vehicles transporting minerals shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of minerals for transportation shall be committed. The trucks transporting minerals shall not pass through wild life sanctuary, if any in the study area.
21. Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RSPM, SPM, SO₂, NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. The monitored data for criteria pollutants shall be regularly up-loaded and displayed on the company's website.
22. Data on ambient air quality (RPM, SPM, S0₂, NO_x) should be regularly submitted to the Regional office, MoEF, Gol, Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.
23. Ambient air quality at the boundary of the mine premises shall conform to the norms prescribed in MoEF notification no. GSR/826(E) dtd. 16.11.09.
24. Fugitive dust emissions from all the sources shall be controlled. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained. The dust emission shall be monitored regularly as per norms and records to be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB regularly.
25. Measures shall be taken for control of noise levels below 75 dBA in the work environment. Workers engaged in operations of HEMM, etc., shall be provided with ear plugs / muffs and health records of the workers shall be maintained.
26. Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within six months and thereafter every year from the next consequent year.
27. Regular monitoring of ground and surface water sources for level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year i.e. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected shall be regularly sent to Regional Office, MoEF, Gol, Bhopal, MP PCB, Central Ground Water Authority and Regional Director, Central Ground Water Board.
28. The waste water from the mine if any, shall be treated to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The oil and grease trap shall be installed for the effluents generated from the workshop, if any, before discharging into the natural stream. The discharged water from the tailing dam, if any shall be regularly monitored and report submitted to the Regional Office, Ministry of Environment & Forests, Gol, Bhopal, Central Pollution Control Board, and the State Pollution Control Board.
29. Hydro-geological study of the area shall be reviewed by the project proponent annually. In case adverse effect on ground water quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse impact on ground water is implemented.

30. Occupational health check up for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures shall be conducted followed by follow up action wherever required. It should be made available for inspection whenever asked. Necessary funds for this also should be earmarked.
31. Project Proponent shall ensure appropriate arrangement for shelter and drinking water for the mine workers.
32. Persons working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.
33. Commitment towards CSR have to be followed strictly.
34. Special measures shall be adopted to prevent the nearby settlements from the impacts of mining activities.
35. The Project Proponent shall inform to the Regional Office, MoEF, Gol, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
36. The necessary funds as per mandate shall kept for environmental protective measures which should be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Regional Office, MoEF, Gol, Bhopal and MP PCB.
37. The Regional Office, MoEF, Gol, Bhopal and MP PCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan, Public hearing and other relevant documents should be given to Regional Office, MoEF, Gol, Bhopal and MP PCB.
38. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and Municipal Bodies, as applicable, in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.
39. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal.
40. The project proponent has to strictly follow directions/guideline issued by the MoEF, Gol, CPCB and other Govt. agencies from time to time.
41. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office, MoEF, Gol, Bhopal, MP PCB and to the competent authority of the State Govt. within six months.
42. The Project Proponent has to submit half yearly compliance report of the stipulated prior environmental clearance terms and conditions in hard and soft copy to the Regulatory Authority on 1st June and 1st December of each calendar year.
43. The SEIAA of M.P. reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
44. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

45. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
46. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
47. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
48. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
49. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
50. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 EC conditions and shall also be sent to the Regional Office of MoEF.

Endt No. **6733** / SEIAA/21
Copy to:-

Dated: **19.2.21**

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(Tanvi Sundriyal)
Member Secretary

1. Principal Secretary, Department of Environment, Government of Madhya Pradesh, Mantralaya, Bhopal.
2. Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-4620 16
3. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016
4. Collector, District Gwalior (M. P.)
5. Divisional Forest Officer, District Gwalior (M. P.)
6. I.A. Division, Monitoring Cell, MoEF& CC, Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi- 110 003.
7. Director (S), Regional office of the MOEF, Western Region, Kendriya Paryavaran Bhawan, Link Road No. 3 Ravi Shankar Nagar, Bhopal-462016.
8. Director, Geology & Mining, Madhya Pradesh, 29-A, Khanij Bhawan, Arera Hills, Bhopal - 462002.
9. District Mining Officer, District Gwalior (M. P.).
10. DEO, SEIAA, for update on website.
11. Guard file.

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(Alok Nayak)
Officer-in-Charge