



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.: 517 /SEIAA/ 21
Date: 13.5.21

To,
M/s R.K.Transport and Construction Ltd,
65-A, Transport Nagar,
Dist. Korba, CG - 486889

Sub: - Case No 7635/2020 Prior Environment Clearance for **Sand Quarry** (opencast manual method) in an area of 4.00 ha. for production capacity of 1,04,850 cum per annum at Khasra No. 01 at Village – Orgai-1, Tehsil - Singrauli, Dist. Singrauli (MP) by M/s R.K.Transport and Construction Ltd, 65-A, Transport Nagar, Dist. Korba, CG - 486889.

This has reference to your letter received in SEIAA office on 09.09.2020 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, Mining Plan, EMP, DSR, 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 **Sand Quarry** in an area of 4.0 ha. The mining lease area is located in Khasra No. 01 at Village – Orgai-1, Tehsil - Singrauli, Dist. Singrauli (M.P.). It lies at geographical co-ordinates at latitude 24°0'36.10"N to 24°0'44.76" N and longitude 82°39'19.70"E to 82°39'28.93" 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 Collector, Singrauli vide L.No. 1926/kha.yo./ret/anu./2020 Bhopal dated 27/05/2020.

The proposed project is for production capacity of 1,04,850 cum per annum. The mining will be carried out by opencast manual method. The total water requirement is 78 KLD (72 KLD Dust Suppression +01 KLD Drinking & other use activity+ 05 KLD Green Belt which shall be met from river for dust suppression & green belt and hand pump water will be used for drinking purpose. The public hearing was conducted at Mine site in Village – Orgai-1, Tehsil - Singrauli, Dist. Singrauli on dtd. 03.02.2021, under chairmanship of Additional Collector, Singrauli.

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 674th meeting dtd. 07.04.2021 and decided to accept the recommendations of 496th SEAC meeting dtd. 03.04.2021.

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Hence, Prior Environmental Clearance is granted for Sand Quarry (opencast manual method) in an area of 4.00 ha. for production capacity of 1,04,850 cum per annum at Khasra No. 01 at Village – Orgai-1, Tehsil - Singrauli, Dist. Singrauli (MP) for the lease period to M/s R.K.Transport and Construction Ltd, 65-A, Transport Nagar, Dist. Korba, CG - 486889, subject to the compliance of following specific conditions as recommended by SEIAA & SEAC and subsequent Standard Conditions.

A. Specific Conditions

1. PP shall not start mining activity before execution of lease agreement.
2. The production capacity shall be limited to the quantity as recommended by SEAC.
3. PP shall ensure that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the approved mining plan.
4. No ramp will be allowed within the river basin to transport sand to the other bank. Transportation will be allowed on the bank side where the mineral is being excavated.
5. The entire lease area should be properly fenced and boundary stones marked at the site.
6. No in-stream mining shall be allowed. The local authorities should ensure that the mining activity is confined only in the dry portion where sand is exposed.
7. Leaving the submerged area as a non-mining zone as committed in PP.
8. The depth of the pit shall be as per Approved Mining Plan.
9. Transportation of sand shall be strictly carried out from outside the village area.
10. The mining shall be carried out strictly in accordance with the Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by the MoEF&CC.
11. PP shall ensure compliance of the direction and provision made for sand mining methodology up to 5 ha. lease area as per the Notification 30.08.2019 issued by MP Mineral Resource Department, GoMP.
12. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream both which is a function of local hydraulics, hydrology and geomorphology.
13. PP shall ensure compliance of all the commitments made during public hearing and submit compliance report in every six month of the year.
14. No Mining shall be carried out during Monsoon season.
15. Alternate transportation routes should be decided in consultation with the local Gram Panchayat.
16. Total 6000 saplings of suitable tree species i.e. Neem, Peepal, Bargad, Amaltas, Gulmohar, Satparni, Karanj, Awala, Mango, Jamun, Imly, Kachnar, Bael, Munga, Mahua etc. shall be planted by PP in first two years under plantation programme at river bank, and village area in consultation with Gram Panchayat/ District Administration. PP shall also explore and identify the chunk of land in the area from revenue records to carry out the plantation programme as proposed.
17. Overloading will be strictly prohibited.
18. Water sprinkling will be done on the approach road on the regular basis.
19. PP must ensure the implementation of following activities under CER with all budgetary provision as committed in SEIAA :-
 - ❖ To provide 5 ceiling fans, 20 chairs, 20 Desk, One computer and construction of two toilets with proper water facility, in govt. school at village Orgai.
 - ❖ Suitable grass species will be shown in the 1.00 ha grazing land at nearby govt. land of the village area Orgai.
 - ❖ Construction of additional one room (10feet X 15feet) with basic facility at nearby anganwadi center at village Orgai.
- 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.
20. 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

21. Mining activities shall be carried out only after the month of January every year (when lease becomes dry & minable) and after the joint site visit of Regional Officer, MP Pollution Control Board, Singrauli and Mining Officer, Singrauli who will verify that the mine site is dry and mining is possible as per the prescribed norms.
22. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars.
23. 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.
24. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
25. PP will also carry out fencing all around the lease area.
26. If any tree uprooting is proposed necessary permission from the competent authority should be obtained for the same.
27. For dust suppression, regular sprinkling of water should be undertaken.
28. Transportation road shall be made WBM Road and shall be constructed prior to operation of mine.
29. PP will obtain other necessary clearances/NOC from respective authorities.

(B) MINING OPERATIONAL PHASE

30. No intermediate stacking is permitted at the mine site.
31. Overhead sprinklers shall be provided in mine.
32. The proposed plantation scheme should be carried out along with the mining and PP would maintain the plants for three 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.
33. 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 10,500 trees shall be planted on barrier zone, backfilled area and along the transportation route.
34. Transportation of sand shall be done in covered vehicles.
35. Transportation of sand shall not be carried out through forest area.
36. For dust suppression over head sprinkler shall be provided while on transport road for dust suppression tankers shall be provided.
37. 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.
38. PP will take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
39. The commitments made in the public hearing are to be fulfilled by the PP.
40. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.
41. PPE's such as helmet, ear muffs etc should be provide to the workers during mining operations.

(C) ENTIRE LIFE OF THE PROJECT

42. In the proposed EMP, capital cost is Rs. 40.80 Lakh is proposed and Rs. 11.19 Lakh /year as recurring expenses.
43. 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.
44. 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. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
2. Mining Lease boundary shall be appropriately earmarked with fencing.
3. A display board with following details of the project is mandatory at the entry to the mine.
 - a. Lease owner's Name, Contact details etc.
 - b. Mining Lease area of the project (in ha.)
 - c. Production capacity of the project.
4. No heavy vehicles shall be allowed to enter the river bed.
5. The transportation of the sand from the excavation pits of the leased area to the loading point shall be through trollies (tractor trollies) and not by heavy vehicles.
6. Only registered tractor trollies which are having the necessary registration and permission for the aforesaid purpose under the Motor Vehicle Act and also insurance coverage for the same shall alone be used for the said purpose.
7. The banks on the curve of the river regime should be stabilized by proper bunds and then proper plantation should be carried out. Collector, should monitor so that the sand mining should not disturb the ecology of the region.
8. 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.
9. It shall be ensured that excavation of minor mineral does not disturb or change the underlying soil characteristics of the river bed /basin, where mining is carried out.
10. It shall be ensured that mining does not in any way disturb the turbidity, velocity and flow pattern of the river water.
11. It shall be ensured that there is no fauna dependant on the river bed or areas close to mining for its nesting.
12. Precise mining area will be jointly demarcated at site by officials of Mining/Revenue department prior to mining operations for all proposals under consideration.
13. Parking of vehicles should not be made on public places.
14. Special Measures shall be adopted to prevent the nearby settlements from the impacts of mining activities. Maintenance of roads through which transportation of minor minerals is to be undertaken, shall be carried-out regularly.
15. Measures for prevention and control of soil erosion and management of silt shall be undertaken.
16. The project proponent will ensure necessary protection measures around the mine pit, waste dumps.
17. Plantation programme shall be carried out as per EMP. Self sustenance of the vegetation should be ensured. No tree-felling shall be done in the leased area, except only with the permission from competent authority.
18. 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.
19. Project Proponent shall ensure appropriate arrangement for shelter and drinking water for the mine workers.
20. 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.
21. Dispensary facilities for first-aid shall be provided at site.
22. 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
23. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
24. 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.



25. 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.
26. District Authority should annually record the deposition of sand in the lease area (at an interval of 100 meters for leases 10 ha or > 10.00 ha and at an interval of 50 meters for leases < 10 ha.) before monsoon & in the last week of September and maintain the records in RL (Reduce Level) Measurement Book. Accordingly authority shall allow lease holder to excavate only the replenished quantity of sand in the subsequent year.
27. Overhead sprinklers arrangements with solar pumps should be provided for dust suppression at the exit of the lease area and fixed types sprinklers on the evacuation road. PP should maintain a log book wherein daily details of water sprinkling and vehicle movement are recorded.
28. Transportation of material shall only be done in covered & PUC certified vehicles with required moisture to avoid fugitive emissions. Transportation of minerals shall not be carried out through forest area without permissions from the competent authority.
29. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
30. Sand and gravel shall not be extracted up to a distance of 1 kilometer (1Km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250 meters on the upstream side and 500 meters on the downstream side.
31. Mining depth should be restricted to 3 meters or water level, whichever is less and distance from the bank should be 1/4th of river width and should not be less than 7.5 meters. No in-stream mining is allowed. Established water conveyance channels should not be relocated, straightened, or modified.
32. Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.
33. PP shall carry out independent environmental audit atleast once in a year by reputed third party entity and report of such audit be placed on public domain.
34. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.
35. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
36. Thick plantation shall be carryout on the banks of the river adjacent to the lease, mineral evacuation road and common area in the village. PP would maintain the plants for five years including casualty replacement. PP should also maintain a log book containing annual details of tree plantation and causality replacement and to take adequate precautions so as not to cause any damage to the flora and fauna during mining operations.
37. Six monthly occupational health surveys of workers shall be carryout and all the workers shall be provided with necessary PPE's. Mandatory facilities such as Rest Shelters, First Aid, Proper Fire Fighting Equipments and Toilets (separate for male & female) shall also be provided for all the mine workers and other staff. Mine's site office, rest shelters etc shall be illuminated and ventilated through solar lights.
38. A separate bank account should be maintained for all the expenses made in the EMP and CER activities by PP for financial accountability and these details should be provided in Annual Environmental Statement. 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.
39. The amount towards reclamation of the pit and land in MLA shall be carried out through the mining department. The appropriate amount as estimated for the activity by mining department has to be deposited with the Collector to take up the activity after the mine is exhausted.
40. Expansion or modernization in the project, entailing capacity addition with change in process and or technology and any change in product - mix in proposed mining unit shall require a fresh Environment Clearance.
41. A separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M dated 16/01/2020.
42. The project proponent shall follow the mitigation measures provided in MoEFCCs Office Memorandum No. Z-11013/57/2014-IA. II (M) dated 29th October 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
43. Following conditions must be implemented by PP in case of sand mining as per NGT (CZ) order dated 19/10/2020 in OA NO. 66/2020 and SEIAA's instruction vide letter No. 5084 dated 09/12/2020.



- i. The Licensee must use minimum number of poclains and it should not be more than two in the project site.
- ii. The District Administration should assess the site for Environmental impact at the end of first year to permit the continuation of the operation.
- iii. The ultimate working depth shall be 01 m from the present natural river bed level and the thickness of the sand available shall be more than 03 m the proposed quarry site.
- iv. The sand quarrying shall not be carried out blow the ground water table under any circumstances. In case, the ground water table occurs within the permitted depth at 01 meter, quarrying operation shall be stopped immediately.
- v. The sand mining should not disturb in any way the turbidity, velocity and flow pattern of the river water.
- vi. The mining activity shall be monitored by the Taluk level Force once in a month by conducting physical verification.
- vii. After closure of the mining, the licensee shall immediately remove all the sheds put up in the quarry and all the equipments used for operation of sand quarry. The roads/pathways shall be leveled to let the river resume its normal course without any artificial obstruction to the extent possible.
- viii. The mined out pits to be backfilled where warranted and area should be suitable landscaped to prevent environmental degradation.
- ix. PP shall adhere to the norms regarding extent and depth of quarry as per approved mining plan. The boundary of the quarry shall be properly demarcated by PP.


 (Shriman Shukla)
 Member Secretary

Endt No. ⁵¹⁸ / SEIAA/21
 Copy to:-

Dated: 13.5.21

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 Singrauli (M. P.)
5. Divisional Forest Officer, District Singrauli (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 Singrauli (M. P.).
10. DEO, SEIAA, for update on website.
11. Guard file.


 (Alok Nayak)
 Officer-in-Charge