



राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण, म.प्र.
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)



पर्यावरण नियोजन एवं समन्वय संगठन
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी
भोपाल-462016 (म.प्र.)

वेबसाइट—<http://www.mpseiaa.nic.in>

दूरभाषनं. — 0755-2466970, 2466859

फैक्सनं. — 0755-2462136

No: 270 / SEIAA/2025

Date: 23/05/2025

प्रति,

Shri Vijay Jadav,

R/o Barbad Naka, Sailana Road,

District-Ratlam (MP)-457001

E-mail - jadavvijay546@gmail.com

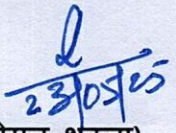
विषय :- Proposal No. SIA/MP/MIN/518762/2025- Case No 10704/2023 Prior Environment Clearance for Stone Quarry (Opencast semi mechanized method) in an area of 1.80 ha. for production capacity of Stone-6000 cum per year & M-Sand-5000 cum per year, Khasra No. 172, Village Sarwanikhurd, Tehsil- Ratlam, District- Ratlam (M.P.) by Shri Vijay Jadav, Lessee, R/o Barbad Naka, Sailana Road, District-Ratlam (MP)-457001.

विषयान्तर्गत प्रकरण में राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) द्वारा 775वीं बैठक दिनांक 21.02.2025 में विशिष्ट शर्तों एवं स्टैण्डर्ड शर्तों (संलग्नक-ए) सहित पर्यावरण अनुमति प्रदान किये जाने की अनुशंसा कर प्रकरण दिनांक 07.03.2025 को राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण (SEIAA) को अग्रेषित किया गया। प्रश्नाधीन प्रकरण SEIAA की बैठक में विचारण नहीं होने के कारण 45 दिवस से अधिक की अवधि समाप्त हो गई है।

पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार की ईआईए अधिसूचना दिनांक 14.09.2006 के पैरा 8 की कंडिका (iii) इस प्रकार है - "In the event that the decision of the regulatory authority is not communicated to the applicant within the period specified in sub-paragraphs (i) or (ii) above, as applicable, the applicant may proceed as if the environment clearance sought for has been granted or denied by the regulatory authority in terms of the final recommendations of the Expert Appraisal Committee or State Level Expert Appraisal Committee concerned."

अतः ईआईए अधिसूचना के पैरा 8 की कंडिका (iii) के अनुसार उक्त प्रकरण में SEAC की 775वीं बैठक दिनांक 21.02.2025 में विशिष्ट शर्तों एवं स्टैण्डर्ड शर्तों (संलग्नक-ए) सहित पर्यावरण स्वीकृति हेतु की गई अनुशंसा को अंतिम निर्णय मानते हुए राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा "Deemed Approval" माना जाकर पर्यावरण अनुमति दी जाती है। तदनुसार प्रकरण में ईआईए अधिसूचना के पैरा 8 की कंडिका (iii) के अनुसार आगामी आवश्यक वैधानिक कार्यवाही करने हेतु आप स्वतंत्र हैं।

(प्रमुख सचिव, पर्यावरण विभाग द्वारा अनुमोदित)


(श्रीमान् शुक्ला)

कार्यपालन संचालक, एपको
एवं सदस्य सचिव, SEIAA

प्रतिलिपि:-

1. प्रमुख सचिव, म.प्र. शासन, पर्यावरण विभाग, मंत्रालय, भोपाल।
2. संयुक्त सचिव, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार, इंदिरा पर्यावरण भवन, जोर बाग रोड, नई दिल्ली - 110003।
3. उप सचिव, मुख्य सचिव कार्यालय म.प्र. शासन, मंत्रालय भोपाल (म.प्र.)।
4. अध्यक्ष, SEIAA, एण्डो पर्यावरण परिसर भोपाल (म.प्र.)।
5. अध्यक्ष SEAC, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई-5 अरेरा कॉलोनी भोपाल (म.प्र.)।
6. सदस्य सचिव, SEAC एवं सदस्य सचिव, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई-5 अरेरा कॉलोनी भोपाल।
7. कलेक्टर, जिला रतलाम (म.प्र.)।
8. वन मंडलाधिकारी, जिला रतलाम (म.प्र.)।
9. निदेशक, क्षेत्रीय कार्यालय, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, केन्द्रीय पर्यावरण भवन, लिंक रोड नं. 03, रवि शंकर नगर, भोपाल।
10. संचालक, भौमिकी तथा खनिकर्म मध्यप्रदेश, 29-ए, खनिज भवन, अरेरा हिल्स, भोपाल - 462002।
11. खनिज अधिकारी, जिला रतलाम (म.प्र.)।
12. संबंधित फाईल।

की ओर सूचनार्थ।

कार्यपालन संचालक, एण्डो
एवं सदस्य सचिव, SEIAA

15. Case No 10704/2023 Shri Vijay Jadav, Lessee, R/o Barbad Naka, Sailana Road, District-Ratlam (MP)-457001, Prior Environment Clearance for Sarwanikhurd Stone Quarry in an area of 1.80 ha. (Stone-6000, M-Sand-5000 cum per year) (Khasra No. 172), Village Sarwanikhurd, Tehsil- Ratlam, District- Ratlam (M.P.) (EIA)

प्रस्तावित खदान का आज दिनांक 21/02/2025 को परियोजना प्रस्तावक श्री विजय जाधव एवं उनके पर्यावरणीय सलाहकार श्री राम राघव, मेसर्स ग्रीन सर्कल आईएनसी, बडौदा, गुजरात उपस्थित हुए और उनके द्वारा समिति के समक्ष प्रस्तुतीकरण किया गया ।

परियोजना विवरण	परियोजना प्रस्तावक द्वारा प्रस्तुत दस्तावेज	
परियोजना प्रस्तावक, परियोजना / कम्पनी का नाम व पता	Shri VIJAY JADAV, Lessee, R/o- Barwad Naka Sailana Road Ratlam, District-Ratlam (M.P.)	
खसरा नं./ क्षेत्रफल (सरकारी/निजी)	172 (सरकारी –नॉन फॉरेस्ट लैंड)	1.80 hectare.
स्थल	Village Sarwanikhurd, Tehsil- Ratlam, District- Ratlam (M.P.)	
लीज स्वीकृति	कार्यालय कलेक्टर (खनिज शाखा) जिला रतलाम के पत्र क्रमांक 828 दिनांक 18/04/23 के द्वारा स्वीकृत ।	
श्रेणी (बी-1/बी-2)	बी-1	
ब्लास्टिंग/रॉक ब्रेकर	अनुमोदित खनन योजना अनुसार खनन रॉक ब्रेकर से किया जावेगा और ब्लास्टिंग प्रस्तावित नहीं है ।	
नया/क्षमता विस्तार	नया प्रोजेक्ट ।	
उत्पादन क्षमता	परियोजना प्रस्तावक द्वारा पत्थर(गिट्टी) –6,000 घनमीटर/वर्ष एवं एम सेंड–5,000 घनमीटर/वर्ष हेतु आवेदन किया गया है और अनुमोदित खनन योजना अनुसार पत्थर (गिट्टी) –6,000 घनमीटर/वर्ष एवं एम सेंड–5,000 घनमीटर/वर्ष है ।	
500 मीटर की परिधि में अन्य खदानें	कार्यालय कलेक्टर (खनिज शाखा) जिला रतलाम के एकल प्रमाण-पत्र क्रमांक. 1575/खनिज/2023–24 दिनांक 20/07/2023अनुसार 500 मीटर की परिधि में 07अन्य खदानें संचालित/स्वीकृत है, इस प्रकार इस खदान को मिलाकर कुल रकबा 8.900हे. होता है, अतः प्रकरण बी-1श्रेणी का है ।	
वन मण्डलाधिकारी की अनापत्ति	कार्यालय कलेक्टर (खनिज शाखा) जिला रतलाम के एकल प्रमाण-पत्र क्रमांक 1575 दिनांक 20/07/23 अनुसार 10 किलोमीटर की परिधि में नेशनल पार्क/अभ्यारण्य/ईको सेंसेटिव	

STATE EXPERT APPRAISAL COMMITTEEMINUTES OF 21 February, 2025
775thMEETING

तहसीलदार की अनापत्ति	जोन जैव विविधता क्षेत्र एवं 250 मीटर में वन क्षेत्र स्थित नहीं है । कार्यालय कलेक्टर (खनिज शाखा) जिला रतलाम के एकल प्रमाण-पत्र क्रमांक. 1575/खनिज/2023-24 दिनांक 20/07/2023अनुसार 500 मीटर की परिधि में मानव बसाहट, शैक्षणिक संस्थान, चिकित्सालय, पुरातत्व धरोहर, राष्ट्रीय महत्व के स्मारक, रेलवे लाईन/सार्वजनिक भवन/शमशान घाट/राष्ट्रीय राजमार्ग/संवेदनशील क्षेत्रों जैसे : रेडियो स्टेशन, दूरदर्शन, हवाई अड्डा, प्रतिरक्षा संस्थान एवं जलीय निकाय/नदी/तालाब/बांध/स्टॉपडैम/नहर/ग्रामीण कच्चा/पक्का रास्ता/नाला नहीं है ।
ग्राम सभा/ ग्राम पंचायत की अनापत्ति	ग्राम पंचायत बिबडौद जिला रतलाम के ठहराव प्रस्ताव क्रमांक-9 दिनांक 03/10/22 अनुसार प्रस्तावित स्थल पर खनन कार्य से पंचायत को कोई आपत्ति नहीं है ।
केशर की स्थिति (लीज के बाहर या लीज क्षेत्र के अन्दर)	केशर लीज क्षेत्र में प्रस्तावित है ।
प्रस्तावित स्थल पर वृक्षों की वर्तमान स्थिति	खदान क्षेत्र के अंदर पेड़ नहीं है ।
गूगल इमेज अनुसार वर्तमान स्थिति	<p>South Direction: Nalah- 26m (south) project proponent has informed that, 24-meter setback will be provided as a non-mining zone from nalah to Mine lease area.</p> <p>North Direction: The Jamna River is situated 105 meters to the north.</p> <p>West Direction: The Jamna River is 93 meters to the north. The project proponent has informed that no mining activities will be carried out within 100 meters from the river to the mine lease area. This area will be developed as a non-mining zone. No blasting will be carried out in the mine lease area.</p> <p>Other Observations:</p> <ul style="list-style-type: none"> There is no water retention structures within the lease area or up to 200 meters of the mining lease boundary. <p>The mining lease is situated in a highly uneven and undulating terrain that is why area may appear as if surface drains exist within and near the lease premises.</p>
जिला सर्वेक्षण रिपोर्ट की स्थिति	कार्यालय कलेक्टर (खनिज शाखा) जिला रतलाम के एकल प्रमाण-पत्र क्रमांक 1575/खनिज/2023-24 अनुसार उक्त

	<p>उत्खनिपट्टा को अनुमोदित नवीनजिला सर्वेक्षण रिपोर्ट में सम्मिलित कर लिया जावेगा ।</p> <p>समिति ने चर्चा उपरांत निर्णय लिया कि राज्य स्तरीय स्तरीय पर्यावरण समाघात निर्धारण प्राधिकारण मध्यप्रदेश की 739वीं बैठक दिनांक 29/07/22 (प्रकरण में 9261/2022 – जारी पत्र क्रमांक 1306 दिनांक 04/08/22) में लिए गए निर्णय के परिप्रेक्ष्य में इस प्रकरण को भी पर्यावरणीय संवेदनशीलता के दृष्टिगत परीक्षण कर पर्यावरणीय स्वीकृति हेतु सिया को अनुशंसित किया जाये ।</p>
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After deliberations and the submissions and presentation made by the PP were found to be satisfactory and acceptable hence, **the case is recommended for grant of Prior Environment Clearance for Sarwanikhurd Stone Quarry in an area of 1.80 ha. [Stone (Gitti)-6000Cu.mt/year, M-Sand-5000 Cu.mt/year] (Khasra No. 172), Village- Sarwani khurd, Tehsil-Ratlam, District-Ratlam (MP) With Standard and following specific conditions with Annexure “A”:**

- As per the approved mining plan, the production capacity will **[Stone(Gitti)- 6000 Cu.mt/year, M-Sand-5000 Cu.mt/year]**.
- Under the plantation program, at least 2,160 trees will be planted.
- Under the Environmental Management Plan, a capital expenditure of ₹13.67 lakh and a recurring expenditure of ₹3.335 lakh per year.
- An amount of ₹1.00 lakh has been allocated for CER activities-

Particular	Budget (Rs.)
R.O. will be provide at School with Storage water tank.	90,000/-
Science-related activities materials will be distributed in Village school.	10,000/-

764वी ए राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 05 जून 2024

Following standard conditions shall be applicable for the mining projects of minor mineral in addition to the specific conditions and cases appraised for grant of TOR:

Annexure- 'A'

Standard conditions applicable to Stone/Murum and Soil quarries:

1. Mining should be carried out as per the submitted land use plan and approved mine plan. The regulations of danger zone (500 meters) prescribed by Directorate General of Mines safety shall also be complied compulsorily and necessary measures should be taken to minimize the impact on environment.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars and fenced from all around the site. Necessary safety signage & caution boards shall be displayed at mine site.
3. Arrangements for overhead sprinklers with solar pumps / water tankers 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 along with annual record of water consumed in sprinkling during Summer (February to May/June) and winter session (October to January) separately.
4. 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.
5. Mineral evacuation road shall be made pucca (WBM/black top) by PP.
6. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
7. Crusher with inbuilt APCD & water sprinkling system shall be installed minimum 100 meters away from the road and 500 meters away from the habitations only after the permissions of MP Pollution Control Board with atleast 04 meters high wind breaking wall of suitable material to avoid fugitive emissions.
8. Working height of the loading machines shall be compatible with bench configuration.
9. Slurry Mixed Explosive (SME) shall be used instead of solid cartridge.
10. The OB shall be reutilized for maintenance of road. PP shall bound to compliance the final closure plan as approved by the IBM.
11. Appropriate activities shall be taken up for social up-liftment of the area. Funds reserved towards the same shall be utilized through Gram Panchayat/competent authority.
12. Six monthly occupational health surveys of workers for Cardio-vascular & Pulmonary health, vital parameters as prescribed by concerned regulatory authority 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.
13. 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.
14. To avoid vibration, no overcharging shall be carried out during blasting and muffle blasting shall be adopted. Blasting shall be carried out through certified blaster only and no explosive will be stored at mine site without permission from the competent authority.
15. Mine water should not be discharged from the lease and be used for sprinkling & plantations. For surface runoff and storm water garland drains and settling tanks (SS pattern) of suitable sizes shall be provided.
16. 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.
17. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
18. 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.

764वी ए राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक

दिनांक 05 जून 2024

19. NOC of Gram Panchayat should be obtained for the water requirement and forest department before uprooting any trees in the lease area. PP shall take Socio-economic activities in the region through the 'Gram Panchayat'.
20. The leases which are falling <250 meters of the forest area and PP has obtained approval for the Divisional Level Commissioner committee, all the conditions stipulated by Divisional Level Commissioner committee shall be fulfilled by the PP.
21. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: 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.
22. If it being a case of Temporary Permit (TP), the validity of EC should be only up to the validity of TP and PP has to ensure the execution of closure plan.
23. All the mines where production is > 50,000 cum/year, PP shall develop its own website to display various mining related activities proposed in EMP & CER along with budgetary allocations. All the six monthly progress report shall also be uploads on this website along with MoEF&CC & SEIAA, MP with relevant photographs of various activities such as garland drains, settling tanks, plantation, water sprinkling arrangements, transportation & haul road etc. PP or Mine Manager shall be made responsible for its maintenance & regular updation.
24. All the soil queries, the maximum permitted depth shall not exceed 02 meters below general ground level & other provisions laid down in MoEF&CC OM No. L-11011/47/2011-IA.II(M) dated 24/06/2013.
25. The mining lease holders shall after ceasing mining operation, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora , fauna etc. Moreover, a separate budget in EMP & CER shall maintained for development and maintenance of grazing land as per the latest O.M, of MoEF&CC issued vide letter F.No. 22-34/2018-IA. III, dated 16/01/2020.
26. The project proponent shall follow the mitigation measures provided in MoEF&CCs 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".
27. Any change in the correspondence address shall be duly intimated to all the regulatory authority within 30 days of such change.
28. Authorization (if required) under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 should be obtained by the PP if required.
29. A display board (in hindi) 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.) with latitude and longitude.
 - c. Length, breadth, sanctioned depth of mine and mining time.
 - d. Sanctioned Production capacity of the project as per EC and Consent of MPPCB.
 - e. Method of mining (Mannual/Semi Mechanised) and Blasting or Non-blasting.
 - f. Plantation and CER activities.
30. Dense plantation/ wood lot shall be carryout in the 7.5 meters periphery/barrier zone of the lease through concern CCF (social forestry) or concerned DFO or any other suitable agency and on mineral evacuation road & common area in the village through any suitable Govt. agency (such as Van Vikas Nigam / Van Samiti under monitoring and guidance of Forest Range officer with work permission from DFO concerned / Gram Panchayat / Agricultural department or any other suitable agency having adequate expertise as per the budgetary allocations made in the EMP.
31. Entire plantation proposed in barrier zone of lease area shall be carried out as per submitted plantation scheme and along the fencing seed sowing of Neem, Babool, Safed Castor etc shall also be carried out.
32. Top soil shall be simultaneously used for the plantation within the lease area and no OB/dump shall be stacked outside the lease area. PP should take-up entire plantation activity within initial three years of mining operations and shall maintain them for entire mine life 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. PP shall explore the possibility for plantation in adjoining forest land in consultation with concerned DFO and commensurate budget shall be transferred for plantation to DFO.
33. Local palatable mixture of annual and perennial grass and fodder tree species shall be planted for grassland/fodder development on degraded forest land through forest department or on other community land available for grassland

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and fodder development through Gram Panchayat in concerned village and handed over to Gram Panchayat after lease period.

34. Before onset of monsoon season as per submitted plantation scheme fruit bearing species preferably of fodder / native shall be distributed in nearby villagers to promote plantation and shall be procured from social forestry nursery/ Government Horticulture nursery. This activity shall be carried out under Govt. of Madhya Pradesh “ANKUR YOJNA” by registering individual villagers on “Vayudoot app”. Where ever Aushadhi Vatika (Medicinal Garden) is proposed by PP, a minimum of 50 saplings be planted considering 80% survival with proper protection measures in School or Anganwadi premises.
35. Adequate provisions of water for irrigating plantation shall be made by PP.
36. Activities proposed under CER should be based upon outcome of public hearing in category for B-1 projects. However in case of B-2 projects, CER shall be proposed based upon local need assessment and Gram Panchayat Annual Action Plan.

Annexure- 'B'

Standard conditions applicable for the Sand Mine Quarries*

1. 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.
2. The lease boundary should be clearly demarcated at site with the given co-ordinates by pillars. Necessary safety signage & caution boards shall be displayed at mine site.
3. Arrangements for overhead sprinklers with solar pumps / water tankers 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.
4. Only registered vehicles/tractor trolleys with GPS 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 said purpose.
5. 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.
6. Mineral evacuation road shall be made Pucca (WBM/black top) by PP.
7. 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.
8. Mining depth should be restricted to 3 meters or water level, whichever is less and distance from the bank should be 1/4th or 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.
9. Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.
10. 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 such audits be placed on public domain through website developed for public interface along with photographs of work done w.r.t. EMP as well as CER.
11. No Mining shall be carried out during Monsoon season.
12. The mining shall be carried out strictly as per the approved mine plan and in accordance with the Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by the MoEF&CC ensuring that the annual replenishment of sand in the mining lease area is sufficient to sustain the mining operations at levels prescribed in the mining plan.
13. If the stream is dry, the excavation must not proceed beyond the lowest undisturbed elevation of the stream bottom, which is a function of local hydraulics, hydrology, and geomorphology.
14. After mining is complete, the edge of the pit should be graded to a 2.5:1 slope in the direction of the flow.