MINUTES

581st MEETING

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY-TAMIL NADU

Date: 22.12.2022

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MINUTES OF THE 581st MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HELD ON 22.12.2022.

Agenda No	Description	File No.		Mir	utes	
a)	Confirmation of the minutes of the 580 th meeting of the Authority held on 21.12.2022.			tes of the held on 21.1		ting of the confirmed.
b)	The Action taken on the decisions of the 580 th meeting of the Authority held on 21.12.2022.		Minutes u	ploaded in	Parivesh w	l that 580 th esbsite and up ensuing
1.	Proposed Limestone Mine over an extent of 3.07.0 Ha in S.F.No. 132/1 and 132/3(P) at Panamoopanpatti Village of Usilampatti Taluk, Madurai		placed for held on 07 The SEAC	-	336 th meetin d, t the PP ha	••
	District, Tamil Nadu by Tmt.B.Thiraviyam- For Environmental Clearance.		Online File No	ToR / EC	Applicati on Category	Remarks
			23622	ToR	Under Violation category	Under Process
			27418	ToR	Under Violation category	Under Process
			29371	ToR	Without Violation	ToR Issued
			presentatio	the addition	the PP, SE	AC decided process the

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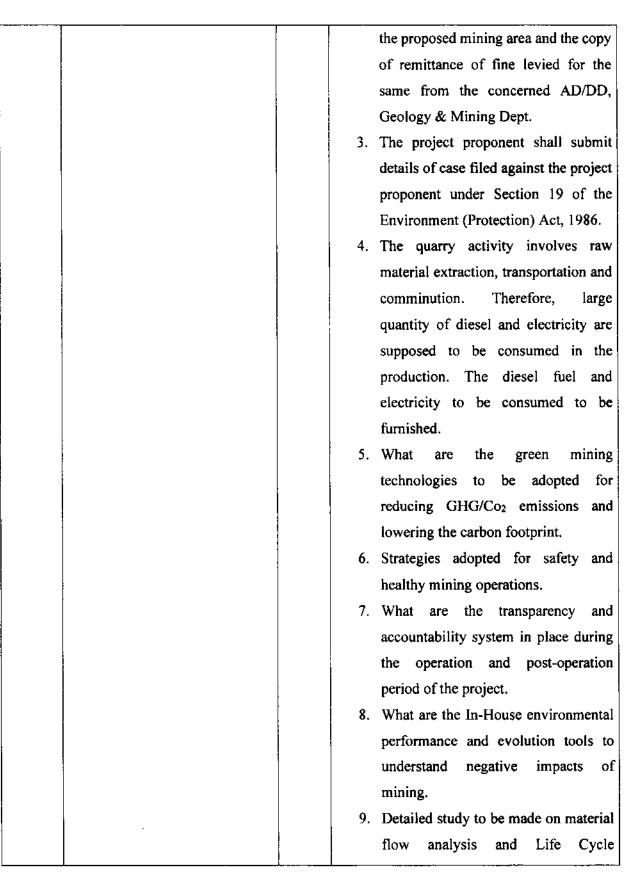
[· · · · · · · · · · · · · · · · · · ·]	a. PP and the ElA Coordinator
			shall furnish explanation for
			the filing of multiple
			applications for same project.
			b. The PP shall furnish a letter
			from AD (Mines) stating that
			the PP has not committed any
			violation earlier.
			c. PP shall withdraw all the above
			three proposals.
			In view of the above, the authority decided to
		:	request the Member Secretary, SEIAA to
1			communicate the SEAC minutes to the project
			proponent held on 07.12.2022.
2.	Existing Multi-coloured Granite	6367	The authority noted that the subject was
	Mine over an extent of 1.24.5 Ha		appraised in 336 th SEAC meeting held on
	at S.F. Nos. 194/4B (P) 242/1 &		07.12.2022.
	243/1B at Eriodu Village,		The Authority after detailed deliberation has
	Vedasandur Taluk, Dindigul		decided to grant Extension of validity for
	District, by Thiru. C. Rabeek Raja		Terms of Reference (ToR) issued vide
	for Extension of validity for the		SEIAA. Lr. No. SEIAA-TN/F.No. 6367/TOR-
	Terms of References "Under		442 /2018 Dated: 30.05.2018 (Deemed to be)
	Violation".		valid upto 29.05.2023 subject to the additional
			specific ToRs as follows
			1. The project proponent shall submit
			valid mining lease and scheme of
			mining plan obtained from the
			competent authority.
			2. The project proponent shall submit
			excess mined out quantity during the
			violation period after 15.01.2016
			along with details of existing pit within
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		Assessment (LCA) in the process of
		production.
		10. Through a chart Illustration, clarify the
		cradle to grave approach for extraction
		of mineral and anticipated emissions,
		environmental threats in every stage
		and mitigation strategy at every stage.
		11. Project Proponent to study impacts on
		human health viz respiratory impacts,
		toxicity impacts and radiation impacts.
		12. Study to be made on aquatic,
		terrestrial toxicity, aquatic
		eutrophication including detailed
		terrestrial toxicity and their impacts of
		wildlife and biodiversity.
		13. What is the total water withdrawal
		consumption, likely temperature rises
		and climate change impacts.
		14. What are the chemical exposures in the
		mining and risks anticipated to
		environmental and human health.
3.	Existing lime stone Mine over an 6503	SEAC has furnished its recommendations to
	extent of 3.93.5 Ha at S.F. Nos.	the Authority for granting extension of
	636(P), 637(P), 711(P), 816(P),	validity of the Terms of Reference issued to
	817(P) varavanai Village,	the Project subject to the conditions stated
	Kadavur taluk, Karur District,	therein. After detailed discussion, The
	Tamil Nadu by Thiru. M.	Authority accepted the recommendation of
	Thangaraj for Extension of	336 th SEAC minutes held on 7.12.2022 with a
i	validity for the Terms of	validity of the ToR issued is valid up to
	References "Under Violation".	17.04.2023 as per the MoEF Notification
		dated 18.01.2021.

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	Therefore, the project proponent is requested
	to submit Public Hearing minutes, EIA/EMP
	report along with required details on the
	following,
	I. Facets of violation,
	II. Assessment of ecological damage
	remediation plan and natural and
	community resource augmentation
	plan which shall be prepared as ar
	independent chapter in the
	environment impact assessmen
	report.
	III. The compliance report on the violation
	ToR issued earlier.
	Along with this, additionally the Projec
	Proponent will study in detail the following:
	1. The limestone quarry involves rav
	material extraction, transportation and
	comminution. Therefore, large
	quantity of diesel and electricity are
	supposed to be consumed in the
	production. The diesel fuel and
	electricity to be consumed to be
	furnished.
	2. What are the green mining
	technologies to be adopted fo
	reducing GHG/Co2 emissions and
	lowering the carbon footprint in the
	limestone mining.
	3. Strategies adopted for safety and
	healthy mining operations.
1	4. What are the transparency and
	accountability system in place during

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	the operation and post-operation
	period of the project.
5.	What are the In-House environmental
	performance and evaluation tools to
	understand negative impacts of
	mining.
6.	Detailed study to be made on material
	flow analysis and Life Cycle
	Assessment (LCA) in the process of
	production.
7.	Through a chart Illustration, clarify the
	cradle to grave approach for extraction
	of limestone and anticipated
	emissions, environmental threats in
	every stage and mitigation strategy at
	every stage.
8.	Project Proponent to study impacts
	on human health viz respiratory
	impacts, toxicity impacts and radiation
	impacts.
9.	Study to be made on aquatic, terrestrial
	toxicity, aquatic eutrophication
	including detailed terrestrial toxicity
	and their impacts of wildlife and
	biodiversity.
	0. What is the total water withdrawal
	consumption, likely temperature rises
	and climate change impacts.
	1. What are the chemical exposures in the
	limestone mining and risks anticipated
	to environmental and human health

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			 during the inspection. (iii) In the meanwhile, the PP shall make necessary arrangements to furnish the following documents during the site inspection of the sub-committee 1. Registered lease deed document from the Pattadhars. 2. The details of validity of Mining plan as approved by the competent Authority. 3. NOC from the Director, Dept of Geology and Mining for payment or copy of approved scheme of mining. 4. Letter from the competent authority stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date. 5. Present status of operation of quarry. 6. Details of habitations/structures
4.	Existing Grey Granite Mine over an extent of 1.09.5 Ha at S.F. Nos. 448/1(P), 449/1,2 & 449/3A at Vilangamudi Village, Pochampalli Taluk, Krishnagiri District, by Thiru. K.S. Thanikachalam – For Environmental Clearance (SIA/TN/MIN/77620/2018 dated: 03.06.2022) under violation	6547	The authority noted that this proposal was placed for appraisal in this 336 th meeting of SEAC held on 07.12.2022. Based on the presentation made and documents furnished by the project proponent, (i) The SEAC decided to constitute a SUB COMMITTEE to make site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category. (ii) Further the subcommittee will examine the ecological damage assessment carried out by the PP and also to check the Remedial Plan & Community Augmentation Plan submitted during the inspection

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			around the proposed mining area and
			latest VAO certificate regarding the
			location of habitations within 300m
			radius from the periphery of the site.
			7. The DFO letter stating that the
		İ	proximity distance of Reserve Forests,
			Protected Areas, Sanctuaries, Tiger
			reserve etc., up to a radius of 25 km
			from the proposed site.
			8. The proof for the action taken by the
			state Government/TNPCB against
			project proponent under the provisions
			of Section 19 of the Environment
			(Protection) Ac, 1986 as per the EIA
			Notification dated: 14.03.2017 and
			amended 08.03.2018.
			On the receipt of the sub-committee report,
			further deliberations will be carried out by the
i			SEAC.
			In view of this, the Authority decided that after
			obtaining and based on the site inspection
			report from the sub-committee constituted by
			SEAC, Member Secretary, SEIAA shall write
			a letter to the government to initiate credible
			action against the proponent under Sec. 19 of
			the Environment Act.
5.	Existing Multi Colour Granite	6549	The authority noted that the subject was
	Mine over an extent of 1.97.5 Ha		appraised in 336 th SEAC meeting held on
	at S.F. No. 140/2B3 (Part) &		07.12.2022.
	140/2B4 (part), Mathianallur		The Authority after detailed deliberation has
	Village, Illupur Taluk, Pudukottai		decided to grant Extension of validity for
	District by Thiru. K. Balakrishnan		Terms of Reference (ToR) issued vide
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	SEIAA. Lr. No. SEIAA-TN/F.No. 6549/TOR-
Terms of References "Under	343/2018 Dated: 14.05.2018 (Deemed to be)
Violation".	valid upto 13.05.2023 subject to the additional
	specific ToRs as follows
	1. The project proponent shall submit
	valid mining lease and scheme of
	mining plan obtained from the
	competent authority.
	2. The project proponent shall submit
	excess mined out quantity during the
	violation period after 15.01.2016
	along with details of existing pit within
	the proposed mining area and the copy
	of remittance of fine levied for the
	same from the concerned AD/DD,
	Geology & Mining Dept.
	3. The project proponent shall submit
	details of case filed against the project
	proponent under Section 19 of the
	Environment (Protection) Act, 1986.
	4. The quarry activity involves raw
	material extraction, transportation and
	comminution. Therefore, large
	quantity of diesel and electricity are
	supposed to be consumed in the
	production. The diesel fuel and
	electricity to be consumed to be
	furnished.
	5. What are the green mining
	technologies to be adopted for
	reducing GHG/Co ₂ emissions and
	lowering the carbon footprint.

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	6. Strategies adopted for safety an
	healthy mining operations.
	7. What are the transparency an
	accountability system in place durin
	the operation and post-operation
	period of the project.
	8. What are the In-House environment
	performance and evolution tools
	understand negative impacts
	mining.
	9. Detailed study to be made on materi
	flow analysis and Life Cyc
	Assessment (LCA) in the process
	production.
	10. Through a chart Illustration, clarify the
	cradle to grave approach for extraction
	of mineral and anticipated emission
	environmental threats in every stag
	and mitigation strategy at every stag
	11. Project Proponent to study impacts of
	human health viz respiratory impact
	toxicity impacts and radiation impact
	12. Study to be made on aquati
	terrestrial toxicity, aquat
	eutrophication including detail
	terrestrial toxicity and their impacts
	wildlife and biodiversity.
	13. What is the total water withdraw
	consumption, likely temperature ris
	and climate change impacts.
	14. What are the chemical exposures in t
	mining and risks anticipated
	environmental and human health.
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6.	Existing Multi-coloured Granite	6559	SEAC has furnished its recommendations to
	Mine over an extent of 1.29.0 Ha		the Authority for granting extension of
	at S.F. Nos. 140/2B1, 140/2B2B,		validity of the Terms of Reference issued to
	145/6, 145/7 & 145/9		the Project subject to the conditions stated
	Mathiyanallur Village,		therein. After detailed discussion, The
	Illupur Taluk, Pudukkotai		Authority accepted the recommendation of
	District, by Thiru. C. Rabeek Raja		336 th SEAC minutes held on 7.12.2022 with a
	for Extension of validity for the		validity of the ToR issued is valid up to
	Terms of References "Under		15.05.2023 as per the MoEF Notification
	Violation".		dated 18.01.2021.
			Therefore, the project proponent is requested
			to submit Public Hearing minutes, EIA/EMP
			report along with required details on the
			following,
			I. Facets of violation,
			II. Assessment of ecological damage,
			remediation plan and natural and
			community resource augmentation
			plan which shall be prepared as an
			independent chapter in the
			environment impact assessment
			report.
			III. The compliance report on the violation
			tor issued earlier.
			Along with this, additionally the Project
			Proponent will study in detail the following:
			1. The Granite quarry involves raw
			material extraction, transportation and
			comminution. Therefore, large
			quantity of diesel and electricity are
			supposed to be consumed in the
			production. The diesel fuel and
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electricity to be consumed to be furnished. 2. What mining аге the green technologies to be adopted for reducing GHG/Co2 emissions and lowering the carbon footprint in the limestone mining. 3. Strategies adopted for safety and healthy mining operations. 4. What are the transparency and accountability system in place during the operation and post-operation period of the project. 5. What are the In-House environmental performance and evaluation tools to of understand negative impacts mining. 6. Detailed study to be made on material analysis and Life Cycle flow Assessment (LCA) in the process of production. 7. Through a chart Illustration, clarify the cradle to grave approach for extraction and anticipated of limestone emissions, environmental threats in every stage and mitigation strategy at every stage. 8. Project Proponent to study impacts on human health viz respiratory impacts, toxicity impacts and radiation impacts. 9. Study to be made on aquatic, terrestrial toxicity, aquatic eutrophication Skum MEMBER SECRETARY MEMBER HAIRMAN

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		 including detailed terrestrial toxicity and their impacts of wildlife and biodiversity. 10. What is the total water withdrawal consumption, likely temperature rises and climate change impacts. 11. What are the chemical exposures in the
		limestone mining and risks anticipated to environmental and human health
7.	Existing Multi colored Granite quarry over an extent of 2.11.0 Ha at S.F. Nos. 11/3 and 11/4 at Semmaduvu Village, Yercaud Taluk, Salem District, by Thiru. A. Arunachalam- For Extension of validity of the Terms of Reference issued under Violation	 The Authority noted that the subject was placed in the 336th Meeting of SEAC held or 07.12.2022. The SEAC after detailed discussions decided to confirm that the ToR issued is valid up to 31.07.2023 as per the aforesaid MoEF Notification dated 18.01.2021. Hence, the project proponent is requested to submit public hearing minutes, EIA/EMF report along with details of aspects of violation, Ecological Damage assessment, Remediation Plan, Natura Resource Augmentation Plan Community Resource Augmentatior plan. The PP shall furnish the DFO letter stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries Tiger reserve etc., up to a radius of 25 km from the proposed site.

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proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended on 08.03.2018

The Authority, after detailed deliberations accepted the aforesaid recommendations of the SEAC and decided to grant extension of ToR under violation category for the period up to 31.07.2023. subject to the ToR as recommended by the SEAC in addition to the following ToR:

15. The proponent shall furnish the DFO

letter stating the proximity distance of nearest RF, WLS & Tiger reserve etc.

- 16. The project proponent shall submit valid mining lease and scheme of mining plan obtained from the competent authority.
- 17. The project proponent shall submit excess mined out quantity during the violation period after 15.01.2016 along with details of existing pit within the proposed mining area and the copy of remittance of fine levied for the same from the concerned AD/DD, Geology & Mining Dept.
- 18. The project proponent shall submit details of case filed against the project proponent under Section 19 of the Environment (Protection) Act, 1986.

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19. What are the green mining
technologies to be adopted for
reducing GHG/CO ₂ emissions and
lowering the carbon footprint in the
limestone mining.
20. Strategies adopted for safety and
healthy mining operations.
21. What are the transparency and
accountability system in place during
the operation and post-operation
period of the project.
22. What are the In-House environmental
performance and evaluation tools to
understand negative impacts of
mining.
23. Detailed study to be made on material
flow analysis and Life Cycle
Assessment (LCA) in the process of
production.
24. Through a chart Illustration, clarify the
cradle to grave approach for extraction
of limestone and anticipated
emissions, environmental threats in
every stage and mitigation strategy at
every stage.
25. Project Proponent to study impacts
on human health viz respiratory
impacts, toxicity impacts and radiation
impacts.
26. Study to be made on aquatic,
terrestrial toxicity, aquatic
eutrophication including detailed

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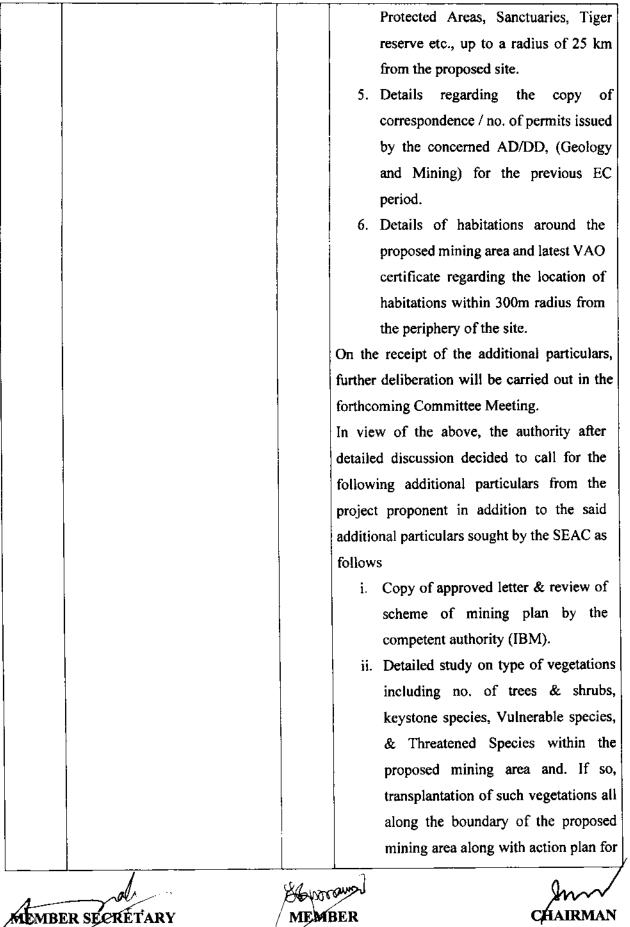
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		terrestrial toxicity and their impacts of wildlife and biodiversity. 27. What is the total water withdrawal consumption, likely temperature rises and climate change impacts. 28. What are the chemical exposures in the limestone mining and risks anticipated to environmental and human health. All other conditions imposed in ToR Letter Lr.No.SEIAA/TN/ToR/ F.No.6590/ToR- 523/2018 /dt 01.08.2018 remains unaltered.
8.	Existing Limestone mine over an extent of 21.66.5 Ha at S.F. No. 631/9, Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Naduby M/s. Super Mines and Minerals -for Environmental Clearance.	 72 The authority noted that this proposal was placed for appraisal in this 336th meeting of SEAC held on 07.12.2022 and the SEAC decided to defer and to call for additional particulars as follows The PP shall submit revised EIA/EMP, incorporating points raised in public hearing, if any. Certified compliance report obtained from IRO, Chennai/MoEF & CC (or) the concerned DEE/TNPCB. G.O/ letter indicating the extension of Mining lease under the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 obtained from the Competent Authority, State Dept of Geology and Mining, Govt of Tamil Nadu. The DFO letter stating that the proximity distance of Reserve Forests,

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9.	Amendment to Environmental	6695	 protection of such said species shall be committed in EMP. iii. List of trees shall be enumerated within the proposed mining area. iv. Detailed study on loss to biodiversity, soil erosion, GHC, Co2 emission, Agriculture, Water table, Surface & underground drainage pattern due precipitation/rainfall& Temp. raise and its remediation/mitigation strategies shall be committed in EMP. The Authority noted that, the proposal was
2.	Clearance for the existing	0075	placed in the 336 th meeting of SEAC held on
	Industrial Shed for "Small scale		07.12.2022. The project proponent was
	Assembly Unit and Ware		ABSENT for the meeting. SEAC decided to
	Houses" in S.F No. 839, 840/1B,		defer the subject to a later date directing the
	2B, 1A, 2A, 841/2B1, 2B2, 2A, 1,		project proponent to furnish the reason for not
	842/1, 2, 3A, 3B, 4, 5A, 5B, 6,		attending the meeting.
	7A, 7B, 8, 845/1, 848, 849,		The Authority, decided to request the
	843/1A, 1B, 2A, 1C1, 1C2, 2B,		Member Secretary, SEIAA TN the
	2C, 850/1, 852/1, 861/5B,		communicate the SEAC minutes to the
	865/14B, 15B, 1A2, 2B2, 5B at		Proponent.
	Polivakkam Village, Thiruvallur		
	Taluk, Thiruvallur District, Tamil		
	Nadu by M/s JKS Infrastructure		
	Pvt Ltd.		
10.	Proposed of Rough stone quarry	7073	The Authority noted that, the proposal
	lease over an extent of 2.00.0Ha		was placed in the 336th meeting of SEAC
	at S.F.No. 301(Part-3) in Athi		held on 07.12.2022. The Project proponent
	Village, Cheyyar Taluk,		appeared before the Committee and
	Tiruvannamalai District, Tamil		requested time for submission of
	Nadu by Tmt R. Latha (Legal heir		mandatory documents for Environmental

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of Late Thiru.M.Ramachandran) - For Environmental Clearance.	Clearance. The Committee accepted the request of the Proponent and decided to take up the subject for discussion on submission of the requisite documents by the proponent The Authority, decided to request the Member Secretary, SEIAA TN the communicate the SEAC minutes to the Proponent.
 Proposed Savudu quarry over an extent of 2.08.0 Ha at S.F.No. 69/7, 72/1, 72/2 & 72/3 of Keelnattukurichi Village, Ettayapuram Taluk, Thoothukudi District, Tamil Nadu by Thiru.G.Vijayakumar- For Environmental clearance. 	 7078 The authority noted that this proposal wa placed for appraisal in this 336th meeting of SEAC held on 07.12.2022 and the SEAC directed the proponent to submit the followin additional details for further processing the proposal. i. The PP shall submit the revised/modified Mining Plan b removing the colloquial wor 'Savudu' by substituting the appropriate legal name of the minerate approved by the Directorate of Geology and Mining. 2. The composition/component of the minerate proposed to be quarried shat be tested in any of the laboratorie authorized by the Dept of Geology & Mining as directed in the above Judgment. 3. The proponent should produce a letter from the concerned AD (Minest stating that the location of quarry site does not lie adjoining to the river streams, canals etc., and also does not stating the colloge to the stating the concerned approvent of the river streams, canals etc., and also does not stating the concerned approvent of the river streams.

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	· · · · · · · · · · · · · · · · ·		come under any notified/declared
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			protected zones in terms of the above
			Judgment.
			4. PP shall furnish details about file No.
			133950 pending in Parivesh portal for
			the same site.
			In view of the above, the authority after
			detailed discussion decided to call for the
			following additional particulars from the
			project proponent in addition to the said
			additional particulars sought by the SEAC as
			follows
			i. Details of type of vegetations
			including no. of trees & shrubs within
			the proposed mining area and. If so,
			transplantation of such vegetations all
			along the boundary of the proposed
			mining area shall committed
			mentioned in EMP.
			ii. Detailed study on loss to biodiversity,
			soil erosion, GHC, Co2 emission,
9			Agriculture, Water table, Surface &
			underground drainage pattern due
			precipitation/rainfall& Temp. raise
			and its remediation/mitigation
			strategies shall be committed in EMP.
12.	Proposed of Rough stone Quarry	7279	SEAC has furnished its recommendations to
	lease over an extent of 1.57.0Ha		the Authority for granting Environmental
	in S.F.No. 570 of Pavithiram		Clearance to the Project subject to the
	Village, Aravakurichi Taluk,		conditions stated therein. After detailed
	Karur District, Tamil Nadu by		discussion, SEIAA decided to grant
			Environmental Clearance for the quantity as
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	Thiru.P.Kandasamy - for		per the mine plan for a period of 5 years
	Environmental Clearance.		approved by the Department of Geology &
			Mining subject to the conditions as
			recommended by SEAC in addition to the
			following condition & conditions stated vide
			Annexure A.
			1. As per the MoEF& CC office
			memorandum F.No.22-65/2017-
			IA.III dated: 30.09.2020 and
			20.10.2020 accepted by the Project
			proponent, the revised CER cost is
			Rs.5 lakhs and the amount shall be
			spent for the activities detailed in the
			SEAC minutes before obtaining
			CTO from TNPCB.
13.	Proposed Savudu Quarry over an	7512	The authority noted that this proposal was
	extent of 3.00.0Ha in		placed for appraisal in this 336 th meeting of
	S.F.Nos.301/1(Part),		SEAC held on 07.12.2022 and the SEAC
	Thiruninravur Village, Avadi		directed the proponent to submit the following
	Taluk, Tiruvallur District, Tamil		additional details for further processing the
	Nadu by Thiru.D.Ramaraj - For		proposal.
	Environmental clearance.		1. The PP shall submit the
			revised/modified Mining Plan by
			removing the colloquial word
			'Savudu' by substituting the
			appropriate legal name of the mineral
			approved by the Directorate of
			Geology and Mining.
			2. The composition/component of the
			minerals proposed to be quarried shall
			be tested in any of the laboratories
			authorized by the Dept of Geology &

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			 Mining as directed in the above Judgment. 3. The proponent should produce a letter from the concerned AD (Mines) stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment. In view of the above, the authority after detailed discussion decided to call for the following additional particulars from the project proponent in addition to the said additional particulars sought by the SEAC as follows i. Details of type of vegetations
			ii. Detailed study on loss to biodiversity, soil erosion, GHC, Co2 emission, Agriculture, Water table, Surface & underground drainage pattern due
	Proposed Multi Colour Granite	7569	precipitation/rainfall& Temp. raise and its remediation/mitigation strategies shall be committed in EMP.
	quarry lease over an extent of		The authority noted that this proposal was placed for appraisal in the 336 th meeting of

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	(vi) Water and energy conservatio
	20 years with cost breakup.
	mitigate them shall be provided for
	studied and the plan/ strategy to
	(v) The impact on agriculture, so erosion and water table shall b
	breakup. (v) The impact on agriculture, so
	provided for 20 years with cos
	strategy to mitigate them shall b
	and Bio-diversity and the plan
	(iv) The impact of mining on vegetation
	the years advance.
	sufficient to handle the expenses as
	the 5% inflation assumed be
	(iii) The proponent shall clarify whethe
	indicated every year for 20 years.
	Environmental damages to be
	executed for the mitigation o
	(ii) Details of work/ strategies to be
	clearly.
	works to be taken up for every year
	worked out indicating the items of
	very sketchy with 5% cost inflation Near actual for every year to be
	(i) The EMP furnished for 20 years is
	following points from the proponent:
	for seeking clarification/ details on the
	decided to refer back the proposal to SEAC
Environmental Clearance	The authority, after detailed discussions
by Tmt. Nama Umadevi – For	the conditions stated therein.
Taluk, Karur District, Tamil Nadu	issue of Environmental Clearance subject to
K.Pichampatti Village, Karur	has decided to recommend the proposal fo
2.43.0 Ha. in S.F.No. 441/4A,	SEAC held on 07.12.2022 and the SEAC

15.	Proposed Savudu quarry over an extent of 3.33.20Ha in S.F.Nos.14(P), Thirupalaivanam - l Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu by Thiru.S.Sureshbabu - For Environmental clearance.	7645	 measures and the cost required for their implementation shall be provided for 20 years. (vii) The EMP should cover the detailed budget for every year for air, water, noise and waste management including green belt. The authority noted that this proposal was placed for appraisal in this 336th meeting of SEAC held on 07.12.2022 and the SEAC directed the proponent to submit the following additional details for further processing the proposal. 1. The PP shall submit the revised/modified Mining Plan by removing the colloquial word 'Savudu' by substituting the appropriate legal name of the mineral app
	l Village, Ponneri Taluk.		
	- · · · · · · · · · · · · · · · · · · ·		
	Environmental clearance.		
			revised/modified Mining Plan by
			removing the colloquial word
			'Savudu' by substituting the
			appropriate legal name of the mineral
			approved by the Directorate of
			Geology and Mining.
ļ			2. The composition/component of the
			minerals proposed to be quarried shall
			be tested in any of the laboratories
			authorized by the Dept of Geology &
			Mining as directed in the above
			Judgment.
			3. The proponent should produce a letter from the concerned AD (Mines)
			stating that the location of quarry site
			does not lie adjoining to the rivers,
			streams, canals etc., and also does not
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		radius Ir.RoC.84/2020/Mines Dated
	BargurTaluk(FormerlyKrishnagiriTaluk), KrishnagiriDistrict,TamilNaduby	1. As per AD, Dept. of Geology and Mining. Krishnagiri District 500n
	532/1B(P), 1C(P), 1D(P) and 532/1A2(P), Puligunda Village,	decided to defer and to call for additional particulars as follows
	No. $528/1B1(P)$, $1B2(P)$, $2(P)$,	SEAC held on 07.12.2022 and the SEAC
16.	Proposed Black Granite quarry 7 over an extent of 1.01.0 Ha at S.F.	841 The authority noted that this proposal was placed for appraisal in this 336 th meeting of
		strategies shall be committed in EMP.
		and its remediation/mitigation
		precipitation/rainfall& Temp. raise
		underground drainage pattern due
		Agriculture, Water table, Surface &
		soil erosion, GHC, Co2 emission
		ii. Detailed study on loss to biodiversity.
		mining area shall committed
		along the boundary of the proposed
		the proposed mining area and. If so, transplantation of such vegetations all
		including no. of trees & shrubs within
		i. Details of type of vegetations
		follows
		project proponent in addition to the said additional particulars sought by the SEAC as
		following additional particulars from the
		detailed discussion decided to call for the
		In view of the above, the authority afte
		protected zones in terms of the above Judgment.

	gars	27.02.2020 reveals that the cluster area
Limited - for Environme	ental	including the proposed mining area
Clearance.		exceeds 5 Ha and falls under B1
		Category as EIA Notification, 2006.
		Hence, the PP shall furnish
		clarification to consider this proposal
		under B2 category.
	2.	The DFO letter stating that the
		proximity distance of Reserve Forests,
		Protected Areas, Sanctuaries, Tiger
		reserve etc., up to a radius of 25 km
		from the proposed site.
	3.	Certified compliance report obtained
		from IRO, Chennai/MoEF & CC (or)
	t	he Concerned DEE/TNPCB for EC
		it: 08.02.2016.
	4. (Copy of valid approval letter & review
	c	of first & Second scheme of Mining
	F	Plan obtained from the Dept. of
		Jeology and Mining.
	In view	of the above, the authority after
	1 1	discussion decided to call for the
	followin	g additional particulars from the
		proponent in addition to the said
		I particulars sought by the SEAC as
	follows	
	1. G	O/ letter indicating the extension of
	M	lining lease under the Minerals
		Other than Atomic and Hydro
1 mile	She worrand	0. /
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		 Carbons Energy Minerals) Concession Rules, 2016 obtained from the Competent Authority, State Dept of Geology and Mining, Govt of Tamil Nadu. 2. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all
		 along the boundary of the proposed mining area shall committed mentioned in EMP. 3. Detailed study on loss to biodiversity, soil erosion, GHC, Co2 emission, Agriculture, Water table, Surface & underground drainage pattern due precipitation/rainfall& Temp. raise and its remediation/mitigation strategies shall be committed in EMP.
17.	proposed of Rough stone and Gravel Quarry lease over an extent of 1.62.0Ha in S.F.No. 42/1B and 43/1B of Pachapalyam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru.A.Myilsamy- for Environmental Clearance.	The authority noted that this proposal was placed for appraisal in 336 th meeting of SEAC held on 07.12.2022 and the SEAC noted, "During presentation, on viewing Google map, it appears that PP have mined upto 3m to 5m depth. Hence SEAC decided that the concerned AD Geology & Mines shall inspect the site and furnish the inspection report regarding any violation activity by the Proponent". In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project

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			proponent held on 07.12.2022.
18.	Proposed Gravel quarry over an extent of 4.20.0 Ha at S.F.No. 402/1 & 402/2 of Punjai Thalavai Palayam Village, Uthukuli Taluk Tiruppur District, Tamil Nadu by Tmt. K. Selvi – For Environmental Clearance.	7970	The authority noted that the subject wa appraised in 336 th SEAC meeting held of 07.12.2022. During the presentation, EIA coordinato informed that PP was absent for the meeting Hence, the proposal was not taken up for appraisal. In the view of the above, SEIAA decided to request Member Secretary to communicate th minutes of 336 th SEAC to the project proponent.
19.	Proposed Rough Stone quarry Lease over an extent of 2.00.0 Ha at S.F.No. 306 (Part-II) in Pannapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.P.Madhu Premanathan- for Environmental Clearance.	7992	 The authority noted that this proposal was placed for appraisal in the 336th meeting of SEAC held on 07.12.2022 and the SEAC has decided to recommend the proposal for issue of Environmental Clearance subject to the conditions stated therein. The authority, after detailed discussions, decided to refer back the proposal to SEAC for seeking clarification/ details on the following points from the proponent: (i) The EMP furnished for 10 years is very sketchy with 5% cost inflation. Near actual for every year to be worked out indicating the items of works to be taken up for every year clearly. (ii) Details of work/ strategies to be executed for the mitigation of Environmental damages to be

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			 indicated every year for 10 years. (iii) The proponent shall clarify whether the 5% inflation assumed be sufficient to handle the expenses as the years advance. (iv) The impact of mining on vegetation and Bio-diversity and the plan/strategy to mitigate them shall be provided for 10 years with cost 	
			 provided for 10 years with cost breakup. (v) The impact on agriculture, soil erosion and water table shall be studied and the plan/ strategy to mitigate them shall be provided for 	
			 10 years with cost breakup. (vi) Water and energy conservation measures and the cost required for their implementation shall be provided for 10 years. 	
			 (vii) The EMP should cover the detailed budget for every year for air, water, noise and waste management including green belt. 	
20.	Proposed of Rough stone Quarry lease over an extent of 1.56.0Ha in S.F.No. 306 (Part-I) of Pannapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.V.Venkatachalam - for Environmental Clearance.	7993	The authority noted that this proposal was placed for appraisal in the 336 th meeting of SEAC held on 07.12.2022 and the SEAC has decided to recommend the proposal for issue of Environmental Clearance subject to the conditions stated therein. The authority, after detailed discussions, decided to refer back the proposal to SEAC for seeking clarification/ details on the	

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	provided for 10 years. (vii) The EMP should cover the detailed budget for every year for air, water, noise and waste management including green belt.
	 10 years with cost breakup. (vi) Water and energy conservation measures and the cost required for their implementation shall be
	 (v) The impact on agriculture, soil erosion and water table shall be studied and the plan/ strategy to mitigate them shall be provided for
	the years advance. (iv) The impact of mining on vegetation and Bio-diversity and the plan/ strategy to mitigate them shall be provided for 10 years with cost breakup.
	executed for the mitigation of Environmental damages to be indicated every year for 10 years. (iii) The proponent shall clarify whether the 5% inflation assumed be sufficient to handle the expenses as
	 following points from the proponent: (i) The EMP furnished for 10 years is very sketchy with 5% cost inflation. Near actual for every year to be worked out indicating the items of works to be taken up for every year clearly. (ii) Details of work/ strategies to be

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		and the recovery achieved appears to be not sustainable.
		proposed recovery. Since, it appears that the methodology of quarrying
	•	the recovery achieved against the
	i	proponent to offset the variation in
	1	3. What is the strategy proposed by the
		need for the next scheme of mining.
		earlier quantity approved, what is
		mineral which amounts to 27009.023 m^3 to be mined out of the
		2. When there is a balance quantity of
		previous Environmental Clearance.
		40% recovery as proposed in the
		regarding the difficulty in achieving
		proponent shall clarify the details
		cbm @ 11% average. Hence, the
		production quantity of only 3330.97
		proponent had achieved a
		recovery as per the mine plan. Further, it was noted that the
		approved was 30340 cbm @ 40%
		issued the production quantity
		No:3862/2015 dated: 14.11.2016
		TN/F.No.5824/1(a)/ EC.
for the Environmental Clearance.		clearance vide Lr. No. SEIAA-
NavinladdhaExtension of validity		1. The earlier Environmental
Tamil Nadu by Thiru.		the following additional details from the PP.
Edappadi Taluk, Salem District,		detailed discussion, SEIAA decided to obtain
9/2B, Thangayur Village,		subject to the conditions stated therein. After
at S.F.No.9/1A1, 9/2A2, 9/2A3,		Environmental Clearance to the Project
Existing multicolor Granite mine Lease over an extent of 4.32.5 Ha		the Authority for granting extension of

. .

4. The proponent shall submit the details regarding if any newer technology is going to be implemented in order to achieve 60% recovery. Since, the data regarding the previous quantity mined out from the proposed quarry indicates an inconsistency in the quantity achieved in each year. Hence, the target of achieving 60% recovery (next scheme of mining) seems to be not viable. 5. Such poor & delayed mining activity leads to extend excess carbon foot prints, prolonged ecological disturbance to vegetation, biodiversity. This disturbance to water table, soil etc., resisting in ecological balance and delayed mine closure & site recovery process. This may be justified. On the receipt of the reply received from the PP it was again been placed in 581st SEIAA meeting held on 22.12.2022. The Authority noted the following from the PP's reply a. Reason for low recovery. Sir our quarry was a virgin land and for the first 2 years we had spent much of the time on removing the ore burden. b. Since the Multicolour granite was of new colour in the market, it required more customer persuasion for buying





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the same inspite of giving better pricing. The market was also new for this colour granite and acceptance was very new. Hence the market condition made the production go slow.

- c. By the time market accepted our granite COVID 19 pandemic had started and for 2 years the frequent lock downs, social distancing, less man power at mine site, labour issues and overall market conditions all created the production and recovery to be very low and we couldn't achieve the required production.
- d. With regards to increase in recovery percentage to 60%, This is because we anticipate that since the top ore burden is removed and much of the quarry development work is completed, the recovery of final blocks shall increase and we shall have less wastages. Therefore due to low developmental activity for the future periods we expect the recovery to increase and as such keeping this change in recovery percentage and increase in recovery the second scheme of mining was prepared.

After detailed discussion, SEIAA decided to refer back to SEIAA this proposal for getting specific remarks on the PP reply along with recommendation.

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Annexure-'A'

- 1. The AD/DD, Dept. of Geology & Mining shall ensure operation of the proposed quarry after the submission slope stability study conducted through the reputed research & Academic Institutions such as NIRM, IITs, NITS Anna University, and any CSIR Laboratories etc.
- 2. The AD/DD, Dept. of Geology & Mining & Director General of Mine safety shall ensure strict compliance and implementation of bench wise recommendations/action plans as recommended in the scientific slope stability study of the reputed research & Academic Institutions as a safety precautionary measure to avoid untoward accidents during mining operation.
- 3. No trees in the area should be removed and all the trees numbered and protected. In case trees fall within the proposed quarry site the trees may be transplanted in the Greenbelt zone. The proponent shall ensure that the activities in no way result in disturbance to forest and trees in vicinity. The proponent shall ensure that the activity does not disturb the movement of grazing animals and free ranging wildlife. The proponent shall ensure that the activity does not disturb the biodiversity, the flora & fauna in the ecosystem. The proponent shall ensure that the activities do not disturb the resident and migratory birds. The proponent shall ensure that the activities do not disturb the vegetation and wildlife in the adjoing reserve forests and areas around.
- 4. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.
- 5. The activity should not result in CO₂ release and temperature rise and add to micro climate alternations.
- 6. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and ground water, nor cause any pollution, to water sources in the area.
- 7. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
- 8. The proponent shall ensure that Monitoring is carried out with reference to the quantum of particulate matter during excavation; blasting; material transport and also from cutting waste dumps and haul roads.
- The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agro forestry, mixed plants to support biodiversity conservation in the mine restoration effort.
- 10. The proponent shall ensure that activity does not deplete the indigenous soil seed bank and disturb the mycorrizal fungi, soil organism, soil community nor result in eutrophication of soil and water/

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- 11. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil heath
- 12. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.
- 13. The proponent shall ensure that all mitigation measures listed in the EIA/EMP are taken to protect the biodiversity and natural resources in the area.
- 14. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in any way affect the water quantity and quality in the open wells and bore wells in the vicinity or impact the water table and levels. The proponent shall ensure that the activities do not disturb the river flow, nor affect the Odai, Water bodies, Dams in the vicinity.
- 15. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) to be planted.
- 16. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).
- 17. The proponent shall ensure that the mine restoration is done using mycorrizal VAM, vermincomposting, Biofertilizers to ensure soil health and biodiversity conservation.
- 18. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.
- 19. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.
- 20. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.
- 21. The proponent shall ensure that the activities do not impact green lands/grazing fields of all types surrounding the mine lease area which are food source for the grazing cattle.
- 22. The project proponent shall store/dump the granite waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.

Directions for Reclamation of mine sites

1. The mining closure plan should strictly adhere to appropriate soil rehabilitation measures to ensure ecological stability of the area. Reclamation/Restoration of the mine site should ensure that the Geotechnical, physical, chemical properties are sustainable that the soil structure composition is buildup, during the process of restoration.

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- 2. The proponent shall ensure that the mine closure plan is followed as per the mining plan and the mine restoration should be done with native species, and site restored to near original status. The proponent shall ensure that the area is ecologically restored to conserve the ecosystems and ensure flow of goods and services.
- 3. A crucial factor for success of reclamation site is to select sustainable species to enable develop a self-sustaining eco system. Species selected should easily establish, grow rapidly, and possess good crown and preferably be native species. Species to be planted in the boundary of project site should be un palatable for cattle's/ goats and should have proven capacity to add leaf-litter to soil and decompose. The species planted should be adaptable to the site conditions. Should be preferably pioneer species, deciduous in nature to allow maximum leaflitter, have deep root system, fix atmospheric nitrogen and improve soil productivity. Species selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.
- 4. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
- 5. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria and nitrogen fixing bacteria to be utilized.
- 6. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
- 7. Top soil is most important for successful rehabilitation of mined sites. Topsoil contains majority of seeds and plant propagation, soil microorganism, Organic matter and plant nutrients. Wherever possible the topsoil should be immediately used in the area of the for land form reconstruction, to pre mining conditions.
- 8. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc of pioneering spices should be collected, preserved and used in restoring the site.
- 9. Native grasses seeds may be used as colonizers and soil binders, to prevent erosion and allow diverse self- sustaining plant communities to establish. Grasses may offer superior tolerance to drought, and climatic stresses.
- 10. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, chemicals, ecological,

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properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread.

- 11. Alkaline soils, acidic soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for reestablishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes. The rate of rehabilitation should be similar to rate of mining. The land disturbed should be reshaped for long term use. Mining should be as far as possible be ecofriendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.
- 12. Efforts should to taken to aesthetically improve the mine site. Generally there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be resorted to restore the site by adding soil humas and mycorrhiza.
- 13. Action taken for restoration of the site should be specifically mentioned in the EC compliances.

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