

Minutes of 572nd SEAC-2 Meeting Dated 17/09/2021

The 572nd meeting of SEAC-2 was held in hybrid (physical and virtual) through video conferencing in view of the Corona Virus Disease (Covid-19) on 17/09/2021. Following members participated in the meeting:

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|----|-----------------------------|-----------------------------|
| 1. | Dr. Harikesh Bahadur Singh, | Chairman, SEAC-2 |
| 2. | Dr. Amrit Lal Haldar, | Member, SEAC-2 (through VC) |
| 3. | Dr. Dineshwar Prasad Singh, | Member, SEAC-2 (through VC) |
| 4. | Shri Tanzar Ullah Khan, | Member, SEAC-2 |
| 5. | Prof. Jaswant Singh, | Member, SEAC-2 |
| 6. | Dr. Shiv Om Singh, | Member, SEAC-2 (through VC) |

The Chairman welcomed the members to the 572nd SEAC-2 meeting which was conducted online. The SEAC-2 unanimously took following decisions on the agenda points discussed in meeting :

1. Stone Mining at Arazi No.-339, Khand No.-02, Village-Daharra, Tehsil-Sadar, District-Mahoba, U.P. Shri Shankar Tripathi M/s Shiv Shankar Construction & Suppliers, Area-1.214 ha. File No. 6404/Proposal No. SIA/UP/MIN/64142/2021

A presentation was made by the project proponent along with their consultant M/s Environmental Research & Analysis. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The terms of reference is sought for Stone Mining at Arazi No.-339, Khand No.-02, Village-Daharra, Tehsil-Sadar, District- Mahoba, U.P., (Leased Area-1.214 ha.), M/s Shiv Shankar Construction & Suppliers.
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/64142/2021			
2. File No. allotted by SEIAA, U.P	6404			
3. Name of Proponent	M/S SHIV SHANKAR CONSTRUCTION SUPPLIER Proprietor - Sri Shiv Shankar Tripathi S/O - Sri Janki Prasad Tripathi			
4. Full correspondence address of proponent and mobile no.	R/o- Rajendra Nagar, Kabrai, Tehsil- Mahoba, District- Mahoba (U.P.). 210424			
5. Name of Project	Building Stone, Khanda, Boulder, Ballast (Gitti) Mining Project			
6. Project location (Plot/Khasra/Gata No.)	Arazi No. 339 (Khand No. – 02),			
7. Name of River	NA			
8. Name of Village	Daharra			
9. Tehsil	Sadar			
10. District	Mahoba (U.P.)			
11. Name of Minor Mineral	Building Stone, Khanda, Boulder, Ballast (Gitti) Mining Project			
12. Sanctioned Lease Area (in Ha.)	1.214 Ha.			
13. Mineable Area (in Ha.)	0.6732 Ha. (0.5408 Safety Margin)			
14. Zero level mRL	NA			
15. Max. & Min mrl within lease area	Maximum & Minimum mRL is 220 & 150 mRL respectively.			
16. Pillar Coordinates (Verified by DMO)	Pillar	Latitude(N)	Longitude(E)	

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	A	25°20'09.776"	79°57'57.586"
	B	25°20'09.643"	79°57'58.467"
	C	25°19'59.080"	79°57'58.180"
	D	25°19'59.012"	79°57'59.216"
	E	25°19'55.991"	79°57'59.709"
	F	25°19'57.131"	79°57'57.350"
17. Total Geological Reserves	4,72,182 m ³		
18. Sanction Quantity as per LOI	29,743 m ³ per year as per LOI		
19. Total Proposed Production (in five year)	59,486 m ³ for two years		
20. Proposed Production/year	29,743 m ³ per year		
21. Sanctioned Period of Mine lease	10 Years as per LOI		
22. Production of mine/day	99.14 m ³ /day		
23. Method of Mining	Open cast, Semi-Mechanized		
24. No. of working days	300		
25. Working hours/day	8 hours/day		
26. No. Of workers	24		
27. No. Of vehicles movement/day	16-17 Vehicles movement/day		
28. Type of Land	Building Stone(Khanda, Boulder, Ballast (Gitti) Mining Project		
29. Ultimate Depth of Mining	6.0 m		
30. Nearest metallled road from site	NH-86/76 is about 3.40 km towards West direction from the project site.		
31. Water Requirement	PURPOSE	REQUIREMENT (KLD)	
	Drinking water	0.34 KLD	
	Dust suppression	3.0 KLD	
	Plantation	0.6 KLD	
	Others (if any)	-	
	Total	3.94 KLD (Approx. 4.0 KLD)	
32. Name of QCI Accredited Consultant with QCI No And period of validity.	Environmental Research and Analysis, Lucknow (U.P) Certificate No. NABET/ EIA/ 1922/RA 0200 Valid up to 30 Dec, 2022		
33. Any litigation pending against the project or land in any court	No		
34. Details of 500 m Cluster Map & certificate issued by Mining Officer	Letter No. 46/ MMC-30/2020-21 Date- 12/04/2021		
35. Details of Lease Area in approved DSR	Serial No-37		
36. Proposed EMP cost	Rs 21,48,000/-		
37. Proposed Total Project cost	Rs. 80,00,000/-		
38. Length and breadth of Haul Road	250 m length and 6.0 m width		
39. No. of Trees to be Planted	600		

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
5. There is no litigation pending in any court regarding this project.
6. The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-01

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-1 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

1. In rocky places the soil below is made up of the impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. Therefore, plantation should be done only after drilling about 2 feet below ground and proper manuring should be done along with plant growth promoters for proper growth of the plants.
2. Agreement between project proponent and competent authority for safe disposal of municipal solid waste should be provided at the time EIA presentation.
3. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the quarry area. The surface runoff rain water harvesting and other water conservation measures of long term basis are to be taken in consultation with central/State Ground water Board. The water so collected should be utilized for watering the haulage area, roads and green belt development etc.
4. Plan for vehicular movement.

2. Stone Mining at Gata No.-339, (Khand No.-24 New, 26 Old), Village-Daharra, Mahoba., Shri Anant Ram Shukla., Area-1.214 ha. File No. 6406/Proposal No. SIA/UP/MIN/63984/2021

A presentation was made by the project proponent along with their consultant M/s Environmental Research & Analysis. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The terms of reference is sought for Stone Mining at Gata No.-339, (Khand No.-24 New, 26 Old), Village-Daharra, Mahoba, U.P., (Leased Area-1.214 ha.).
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/63984/2021		
2. File No. allotted by SEIAA, U.P	6406		
3. Name of Proponent	Proponent- Shri Anant Ram Shukla S/o Shri Bhaiya Ram Shukla		
4. Full correspondence address of proponent and mobile no.	R/o- Mo. Bhagat Singh Nagar, Kabrai, Tehsil & District- Mahoba (U.P.)		
5. Name of Project	Building Stone, Khanda, Boulder, Ballast (Gitti) Mining Project		
6. Project location (Plot/Khasra/Gata No.)	Arazi No. 339 (Khand No. -24 New, 26 Old),		
7. Name of River	NA		
8. Name of Village	Daharra		
9. Tehsil	Mahoba		
10. District	Mahoba (U.P.)		
11. Name of Minor Mineral	Building Stone, Khanda, Boulder, Ballast (Gitti) Mining Project		
12. Sanctioned Lease Area (in Ha.)	1.214 Ha.		
13. Mineable Area (in Ha.)	0.729 Ha. (Safety Margin 0.485 Ha.)		
14. Zero level mRL	NA		
15. Max. & Min mrl within lease area	Maximum & Minimum mRL is 214 & 170 mRL respectively.		
16. Pillar Coordinates (Verified by DMO)	Pillar	Latitude(N)	Longitude(E)
	A	N25°20'09.938"	E79°57'56.527"
	B	N25°20'09.776"	E79°57'57.586"
	C	N25°19'58.570"	E79°57'57.394"
	D	N25°19'58.696"	E79°57'56.217"
17. Total Geological Reserves	2,12,534 m ³		
18. Sanction Quantity as per LOI	60,000 m ³ per year as per LOI		

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19. Total Proposed Production (in five year)	1,20,000 m ³ for two years	
20. Proposed Production/year	60,000 m ³ per year	
21. Sanctioned Period of Mine lease	10 Years as per LOI	
22. Production of mine/day	200 m ³ /day	
23. Method of Mining	Open cast, Semi- Mechanized	
24. No. of working days	300	
25. Working hours/day	8 hours/day	
26. No. Of workers	24	
27. No. Of vehicles movement/day	16-17 Vehicles movement/day	
28. Type of Land	Building Stone(Khanda, Boulder, Ballast (Gitti) Mining Project	
29. Ultimate Depth of Mining	6.0 m	
30. Nearest metalled road from site	NH-76 is about 2.0 km towards North-West direction from the project site.	
31. Water Requirement	PURPOSE	REQUIREMENT (KLD)
	Drinking water	0.34 KLD
	Dust suppression	6.0 KLD
	Plantation	0.4 KLD
	Others (if any)	-
	Total4	6.74 KLD (Approx. 7.0 KLD)
32. Name of QCI Accredited Consultant with QCI No And period of validity.	Environmental Research and Analysis, Lucknow (U.P) Certificate No. NABET/ EIA/ 1922/RA 0200 Valid up to 30 Dec, 2022	
33. Any litigation pending against the project or land in any court	No	
34. Details of 500 m Cluster Map & certificate issued by Mining Officer	Letter No. 7502/ MMC-30/2020-21 Date- 26/12/2020	
35. Details of Lease Area in approved DSR	Amendment Letter no:154/M.M.C-30-Khanij(2021-22) dated 12/05/2021	
36. Proposed EMP cost	Rs 21,48,000/-	
37. Proposed Total Project cost	Rs. 80,00,000/-	
38. Length and breadth of Haul Road	250 m length and 6.0 m width	
39. No. of Trees to be Planted	600	

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
5. There is no litigation pending in any court regarding this project.
6. The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-02

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-1 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

1. In rocky places the soil below is made up of the impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. Therefore, plantation should be done only after drilling about 2 feet below ground and proper manuring should be done along with plant growth promoters for proper growth of the plants.

2. Agreement between project proponent and competent authority for safe disposal of municipal solid waste should be provided at the time EIA presentation.
3. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the quarry area. The surface runoff rain water harvesting and other water conservation measures of long term basis are to be taken in consultation with central/State Ground water Board. The water so collected should be utilized for watering the haulage area, roads and green belt development etc.
4. Plan for vehicular movement.

3. Stone Mine at Gata No.-669, Khand No.-40, Village-Khailar, Tehsil -Sadar, Mahoba, U.P., Shri Ramesh Kumar Saravagi, Area-3.237 ha. File No. 6408/Proposal No. SIA/UP/MIN/64262/2021

A presentation was made by the project proponent along with their consultant M/s Cognizance Research India Pvt. Ltd. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The terms of reference is sought for Khanda-Boulder/ Gitti-Ballast Mining Project at Gata No 669 (Khand 40) Area 3.237 ha in Village- Khailar, Tehsil- Sadar, District- Jhansi, U.P., (Leased Area 3.237 ha).
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/64262/2021		
2. File No. allotted by SEIAA, UP	6408		
3. Name of Proponent	Prop: Shri Ramesh Kumar Saravagi		
4. Full correspondence address of proponent and mobile No.	R/o 94/11, Civil Line, Tehsil- Sadar, District- Jhansi, (U.P.)		
	Mobile No-		
	Email-		
5. Name of Project	Khailar Khanda-Boulder/ Gitti-Ballast Mining project		
6. Project location (Plot/Khasra/Gata No.)	Gata No 669 (Khand 40)		
7. Name of River	-		
8. Name of Village	Khailar		
9. Tehsil	Sadar		
10. District	Jhansi		
11. Name of Minor Mineral	Khanda-Boulder/ Gitti-Ballast		
12. Sanctioned Lease Area (in Ha.)	3.237 ha		
13. Max & Min mRL within lease area	Max- 320.0 mRL & 299.0 mRL		
14. Pillar Coordinates (Verified by DMO)	Sanctioned Mining Lease Area		
	Pillar No.	Latitude	Longitude
	A	25°20'45.09"N	78°31'18.73"E
	B	25°20'37.22"N	78°31'18.05"E
	C	25°20'37.03"N	78°31'22.88"E
	D	25°20'44.88"N	78°31'23.42"E
15. Total Geological Reserves	16,79,901 Cum		
16. Total Mineable Reserves in LOI	80,925 Cum/year		
17. Total Proposed Production	80,925 Cum/year		
18. Proposed Production/year	80,925 cum		
19. Sanctioned Period of Mine lease	Maximum 20 years		
20. Production of mine/day	311.25		
21. Method of Mining	Open Cast Semi-mechanized Method		
22. No. of working days	260 days		
23. Working hours/day	8 hrs		

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24. No. of workers	45	
25. No. of vehicles movement/day	44	
26. Type of Land	Government waste land	
27. Ultimate Depth of Mining	54	
28. Nearest metalled road from site	0.8 km	
29. Water Requirement	PURPOSE	REQUIREMENT (KLD)
	Drinking	0.45
	For mobile toilets	5.90
	Suppression of dust	4.8
	Plantation	0.20
	Others (if any)	-
	Total	5.45
30. Name of QCI Accredited Consultant with QCI No and period of validity.	Cognizance Research India Pvt. Ltd. 1922, validity= 03-02-2022	
31. Any litigation pending against the project or land in any court	No	
32. Details of 500 m Cluster Map & certificate issued by Mining Officer	Yes, certified	
33. Details of Lease Area in approved DSR	Yes, given in the DSR	
34. Proposed CER cost	Rs 1,49,100/-	
35. Proposed EMP cost	Capital Cost-Rs 1,09,000/- Recurring Cost- 3,68,000/-	
36. Length and breadth of Haul Road	Length: 400 km, width: 6 m	
37. No. of Trees to be Planted	100 plants	

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
5. There is no litigation pending in any court regarding this project.
6. The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-03

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-1 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

1. In rocky places the soil below is made up of the impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. Therefore, plantation should be done only after drilling about 2 feet below ground and proper manuring should be done along with plant growth promoters for proper growth of the plants.
2. Agreement between project proponent and competent authority for safe disposal of municipal solid waste should be provided at the time EIA presentation.
3. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the quarry area. The surface runoff rain water harvesting and other water conservation measures of long term basis are to be taken in consultation with central/State Ground water Board. The water so collected should be utilized for watering the haulage area, roads and green belt development etc.
4. Plan for vehicular movement.

4. Sand Mining from Ghaghra Riverbed at Gata No.-Gha, Block No.-04, Village-Ratanpura, Tehsil-Gola, Gorakhpur, U.P., Smt. Rajni Shahi, M/s Aarchis Enterprises, Area: 5.0 Ha. File No. 6410/Proposal No. SIA/UP/MIN/216502/2021

A presentation was made by the project proponent along with their consultant M/s Cognizance Research India Pvt Ltd. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The environmental clearance is sought for Ordinary Sand Mining at Gata No. Gha, Block- 04, Village- Ratanpura, Tehsil- Gola, District- Gorakhpur, U.P., (Leased Area 5.0 ha), M/s Aarchis Enterprises.
2. Salient features of the project as submitted by the project proponent:

1. File No. allotted by SEIAA, UP	6410		
2. Name of Proponent	M/s Aarchis Enterprises Prop. ShrimatiRajniShahi		
3. Full correspondence address of proponent and mobile No.	56, AwasVikas Colony Purvee, Betiyahata, District- Gorakhpur, Uttar Pradesh.		
	Mobile No-		
	Email-		
4. Name of Project	Proposed riverbed Ordinary Sand mining project from Ghaghra River		
5. Project location (Plot/Khasra/Gata No.)	Gata No. Gha, Block- 04		
6. Name of River	Ghaghra		
7. Name of Village	Ratanpur		
8. Tehsil	Gola		
9. District	Gorakhpur		
10. Name of Minor Mineral	Ordinary Sand		
11. Sanctioned Lease Area (in Ha.)	5.0		
12. Max & Min mRL within lease area	Max- 74mRL and Min-73.43mRL		
13. Pillar Coordinates (Verified by DMO)	Pillar No.	Latitude	Longitude
	A	26°22'48.89"N	83°15'51.20"E
	B	26°22'45.70"N	83°15'50.10"E
	C	26°22'50.48"N	83°15'31.83"E
	D	26°22'53.59"N	83°15'33.54"E
14. Total Geological Reserves	43,450cum		
15. Total Mineable Reserves in LOI	25,000cum		
16. Total Proposed Production	1,25,000cum		
17. Proposed Production/year	25,000 cum		
18. Sanctioned Period of Mine lease	5 years		
19. Production of mine/day	96.15		
20. Method of Mining	Open Cast Semi-mechanized Method		
21. No. of working days	260 days		
22. Working hours/day	8 hrs		
23. No. of workers	51		
24. No. of vehicles movement/day	8		
25. Type of Land	Government waste land		
26. Ultimate Depth of Mining	0.63		
27. Nearest metalled road from site	1.0 km		
28. Water Requirement	PURPOSE	REQUIREMENT (KLD)	
	Drinking	0.51	
	For Mobile Toilet	0.51	
	Suppression of dust	3.9	

	Plantation	0.25
	Others (if any)	-
	Total	5.17
29. Name of QCI Accredited Consultant with QCI No and period of validity.	Cognizance Research India Pvt Ltd. 1922, validity= 03-02-2022	
30. Any litigation pending against the project or land in any court	No	
31. Details of 500 m Cluster Map & certificate issued by Mining Officer	Yes, certified by District Mining Officer	
32. Details of Lease Area in approved DSR	Yes area is in DSR	
33. Proposed CER cost	Rs1,60,000 /-	
34. Proposed EMP cost	Rs3,50,000 /-	
35. Length and breadth of Haul Road	Length: 0.550 km, width: 6 m	
36. No. of Trees to be Planted	425 plants	

- The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
- The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
- There is no litigation pending in any court regarding this project.
- The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-04

The committee discussed the matter and directed the project proponent to submit following information:

- Detailed plantation plan with identification of green belt, type and number of plants/trees and their location in consultation with Forest Department should be submitted.
- Revised water requirement details along with its source.
- Plan for mobile toilet and safe disposal of municipal solid waste.
- Vehicular movement plan.

The matter shall be discussed after submission of online information on prescribed portal.

5. Stone Mining at Gata No.-735, Khand No.-06 New (7 Old), Village-Daharra, Tehsil-Sadar, Mahoba., Smt. Vineeta Verma., Area-1.012 ha. File No. 6416/Proposal No. SIA/UP/MIN/61822/2021

A presentation was made by the project proponent along with their consultant M/s Environmental Research & Analysis. The proponent, through the documents submitted and the presentation made informed the committee that:-

- The terms of reference is sought for Stone Mining at Gata No.-735, Khand No.-06 New (7 Old), Village-Daharra, Tehsil-Sadar, Mahoba, U.P., (Leased Area-1.012 ha.).
- Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/61822/2021
2. File No. allotted by SEIAA, U.P	6416
3. Name of Proponent	Smt. Vineeta Verma W/o Late Shri Virendra Kumar
4. Full correspondence address of proponent and mobile no.	R/o- 32 Z-1, Barra-2, Kanpur, Tehsil & District- Kanpur (U.P.)
5. Name of Project	Building Stone, Khanda, Boulder, Ballast (Gitti) Mining Project
6. Project location (Plot/Khasra/Gata No.)	Arazi No. 735 (Khand No. – 06 New, 7 Old),

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7. Name of River	NA			
8. Name of Village	Daharra			
9. Tehsil	Sadar			
10. District	Mahoba (U.P.)			
11. Name of Minor Mineral	Building Stone, Khanda, Boulder, Ballast (Gitti) Mining Project			
12. Sanctioned Lease Area (in Ha.)	1.012 Ha.			
13. Mineable Area (in Ha.)	0.7245 Ha. (Safety Margin 0.2875 Ha.)			
14. Zero level mRL	NA			
15. Max. & Min mrl within lease area	Maximum & Minimum mRL is 186.95 & 183.10 mRL respectively.			
16. Pillar Coordinates (Verified by DMO)	Pillar	Latitude(N)	Longitude(E)	
	A	25°20'10.561"	79°58'23.304"	
	B	25°20'09.506"	79°58'27.033"	
	C	25°20'06.310"	79°58'27.188"	
	D	25°20'06.475"	79°58'23.844"	
	D1	25°20'7.18"	79°58'23.53"	
	D2	25°20'7.75"	79°58'23.64"	
	E	25°20'07.753"	79°58'23.812"	
17. Total Geological Reserves	3,39,798 m ³			
18. Sanction Quantity as per LOI	50,000 m ³ per year as per LOI			
19. Total Proposed Production (in three year)	1,27,440 m ³ in three year			
20. Proposed Production/year	50,000 m ³ per year			
21. Sanctioned Period of Mine lease	10 Years as per LOI			
22. Production of mine/day	166.67 m ³ /day			
23. Method of Mining	Open cast, Semi-Mechanized			
24. No. of working days	300			
25. Working hours/day	8 hours/day			
26. No. Of workers	36			
27. No. Of vehicles movement/day	16-17 Vehicles movement/day			
28. Type of Land	Building Stone(Khanda, Boulder, Ballast (Gitti) Mining Project			
29. Ultimate Depth of Mining	6.0 m			
30. Nearest metalled road from site	NH-76 is about 2.38 km towards North-West direction from the project site.			
31. Water Requirement	PURPOSE		REQUIREMENT (KLD)	
	Drinking water		0.46 KLD	
	Dust suppression		3.0 KLD	
	Plantation		0.5 KLD	
	Others (if any)		-	
	Total		3.96 KLD Approx.	
32. Name of QCI Accredited Consultant with QCI No And period of validity.	Environmental Research and Analysis, Lucknow (U.P) Certificate No. NABET/ EIA/ 1922/RA 0200 Valid up to 30 Dec, 2022			
33. Any litigation pending against the project or land in any court	No			
34. Details of 500 m Cluster Map & certificate issued by Mining Officer	Letter No. 7366/ MMC-30/2020-21 Date- 11/12/2020			
35. Details of Lease Area in approved DSR	Amendment letter Letter no:154/M.M.C-30-Khanij(2021-22) dated 12/05/2021			
36. Proposed EMP cost	20,25,000/-			
37. Proposed Total Project cost	Rs. 80,00,000/-			
38. Length and breadth of Haul Road	250 m length and 6.0 m width			
39. No. of Trees to be Planted	500			

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not

intersect the ground water table at any point of time.

4. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
5. There is no litigation pending in any court regarding this project.
6. The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-05

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-1 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

1. In rocky places the soil below is made up of the impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. Therefore, plantation should be done only after drilling about 2 feet below ground and proper manuring should be done along with plant growth promoters for proper growth of the plants.
 2. Agreement between project proponent and competent authority for safe disposal of municipal solid waste should be provided at the time EIA presentation.
 3. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the quarry area. The surface runoff rain water harvesting and other water conservation measures of long term basis are to be taken in consultation with central/State Ground water Board. The water so collected should be utilized for watering the haulage area, roads and green belt development etc.
 4. Plan for vehicular movement.
 5. Mining plan approval letter should be revised as directed by the committee during presentation.
6. **Stone Mining at Gata No.-669, Khand No.-08, Village-Khailar, Tehsil-Sadar, Mahoba., Shri Harsh Yadav, Area-2.530 ha. File No. 6419/Proposal No. SIA/UP/MIN/64130/2021**

RESOLUTION AGAINST AGENDA NO-06

The project proponent vide letter dated 17/09/2021 requested to defer the matter in next SEAC meeting. The SEAC discussed the letter and directed to defer the matter as per request made by the project proponent. The file shall not be treated as pending at SEAC. The matter will be discussed only after submission of online request on prescribed online portal.

7. **Stone Mining at Gata No.-37/4, Village-Jarbo, Tehsil-Sadar, Jhansi, U.P., Shri Sandeep Singh Yadav, Area-1.011 ha. File No. 6423/Proposal No. SIA/UP/MIN/217530/2021**

A presentation was made by the project proponent along with their consultant M/s Cognizance Research India Pvt. Ltd. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The environmental clearance is sought for Stone Mining at Gata No.-37/4, Village-Jarbo, Tehsil-Sadar, Jhansi, U.P., (Leased Area-1.011 ha.).
2. Salient features of the project as submitted by the project proponent:

1.	On-line proposal No.	SIA/UP/MIN/217530/2021
2.	File No. allotted by SEIAA, UP	6423

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3.	Name of Proponent	Prop: Shri Sandeep Singh Yadav	
4.	Full correspondence address of proponent and mobile No.	R/o 143, BarwaSagar, Tehsil- Jhansi, District- Jhansi, (U.P.)	
		Mobile No-	
		Email-	
5.	Name of Project	JarboKhanda- Boulder/ Gitti-Ballast Mining project	
6.	Project location (Plot/Khasra/Gata No.)	Gata No 37/4	
7.	Name of River	-	
8.	Name of Village	Jarbo	
9.	Tehsil	Sadar	
10.	District	Jhansi	
11.	Name of Minor Mineral	Khanda- Boulder/ Gitti-Ballast	
12.	Sanctioned Lease Area (in Ha.)	1.011	
13.	Max & Min mRL within lease area	Max- 223mRL and Min- 220mRL	
14.	Pillar Coordinates (Verified by DMO)	Sanctioned Mining Lease Area	
		Pillar No.	Latitude
		A	25°25'29.44"N
		B	25°25'29.48"N
		C	25°25'28.69"N
		D	25°25'28.50"N
		E	25°25'24.65"N
		F	25°25'24.78"N
15.	Total Geological Reserves	2,74,626 cum	
16.	Total Mineable Reserves in LOI	30,330 cum	
17.	Total Proposed Production	1,51,650 cum	
18.	Proposed Production/year	30,330 cum	
19.	Sanctioned Period of Mine lease	Maximum 20 years	
20.	Production of mine/day	116.65	
21.	Method of Mining	Open Cast Semi-mechanized Method	
22.	No. of working days	260 days	
23.	Working hours/day	8 hrs	
24.	No. of workers	31	
25.	No. of vehicles movement/day	17	
26.	Type of Land	Government waste land	
27.	Ultimate Depth of Mining	24	
28.	Nearest metalled road from site	.60 km	
29.	Water Requirement	PURPOSE	
		Drinking	0.31
		for mobile toilet	0.31
		Suppression of dust	4.30
		Plantation	0.05
		Others (if any)	-
		Total	4.97
30.	Name of QCI Accredited Consultant with QCI No and period of validity.	Cognizance Research India Pvt. Ltd. 1922, validity= 03-02-2022	
31.	Any litigation pending against the project or land in any court	No	
32.	Details of 500 m Cluster Map & certificate issued by Mining Officer	Yes, certified	
33.	Details of Lease Area in approved DSR	Yes, given in the DSR	
34.	Proposed CER cost	Rs1,17,000/-	
35.	Proposed EMP cost	Rs4,22,500 /-	
36.	40. Length and breadth of Haul Road	Length: 0.55 km, width: 6 m	

37. No. of Trees to be Planted	50 plants
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- The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
- The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
- There is no litigation pending in any court regarding this project.
- The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-07

The committee discussed the matter and directed the project proponent to submit following information:

- Detailed plantation plan with identification of green belt, type and number of plants/trees and their location in consultation with Forest Department should be submitted.
- Revised water requirement details along with its source.
- Plan for mobile toilet and safe disposal of municipal solid waste.
- Vehicular movement plan.

The matter shall be discussed after submission of online information on prescribed portal.

8. Stone Mining at Gata No.-669, Khand No.31, Village-Khailar, Tehsil-Sadar, Jhansi., Shri Sadharam Yadav., Area-2.023 ha. File No. 6425/Proposal No. SIA/UP/MIN/64296/2021

A presentation was made by the project proponent along with their consultant M/s Globus Environment Engineering Services. The proponent, through the documents submitted and the presentation made informed the committee that:-

- The terms of reference is sought for Stone Mining at Gata No.-669, Khand No. 31, Village-Khailar, Tehsil-Sadar, Jhansi, U.P., (Leased Area-2.023 ha.).
- Salient features of the project as submitted by the project proponent:

1. Agenda No. & Meeting Date	Sr. No. 8, 572 th SEAC-2 Meeting, Date : 17-09-2021				
2. On-line proposal No.	SIA/UP/MIN/64296/2021, Dated:30-06-2021				
3. File no. allotted by SEIAA, UP	6425				
4. Name of Proponent	Shri Sadharam Yadav S/o Shri Rajaram Yadav				
5. Full correspondence address of proponent and mobile no.	Isai Chauki, Khailar, Tehsil & District – Jhansi (U.P).				
6. Name of Project	Khandas-Boulder /Gitti-Ballast Mining Project				
7. Name of River	None, within 10 Km radius area of mine site.				
8. Project location (Plot/Khasra/Gata No.)	Gata No - 669 (Khand No - 31), Area: 2.023 Ha, Village: Khailar, Tehsil: Sadar, District: Jhansi, State: Uttar Pradesh				
9. Name of Minor Mineral	Khandas-Boulder /Gitti-Ballast				
10. Schedule (as per EIA notification 2006)	1(a)i				
11. Category of Project	B(1)				
	S. No.	Village	Gata No.	Khand No.	Area (Ha)
	1	Khailar	669	-	2.023
	2	Khailar	669	-	2.023

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	3	Khailar	669	-	1.655
	4	Khailar	669	-	2.023
	5	Khailar	669	-	2.023
	6	Khailar	669	-	2.023
	7	Khailar	669	-	2.023
	8	Khailar	669	-	3.237
	9	Khailar	669	-	2.023
			Total Area= 19.053 Ha		
	Since the total area exceeds 5Ha, therefore as per MoEF&CC, GoI O.M. No. L-11011/175/2018-IA-II (M) Dated: 12/12/2018 if a cluster or an individual lease exceeds 5 Ha (Cluster Certificate attached as Annexure) the EIA/EMP be made applicable in the process of grant of prior Environmental Clearance.				
12. Sanctioned Lease Area (in Ha.)	Total Lease Area: 2.023 Ha				
13. Mineable/Workable Area (in Ha.)	2.023 Ha				
14. Project Status	New Mine, District Magistrate has given consent vide letter no. 2096/30 एम. एम. सी. / 2020-21, Dated 06/02/2021 for the exploitation for 20 Years having production capacity 50,575 m ³ / annum				
15. Pillar Coordinates (Verified by DMO)	Pillars	Latitude(N)		Longitude(E)	
	A	25°20'49.50"N		78°31'38.30"E	
	B	25°20'47.80"N		78°31'34.40"E	
	C	25°20'53.90"N		78°31'35.20"E	
	D	25°20'54.30"N		78°31'39.70"E	
Toposheet No: 54K/11 and 54K/7					
16. Max. & Min mRL within lease area	Highest Point :345mRL Lowest Point :320mRL				
17. Total Geological Reserves	11,70,532.5 m ³				
18. Total Mineable Reserves (in approved mining plan)	8,40,276 m ³				
19. Proposed Production/year	50,575 m ³ per annum				
20. Sanctioned Period of Mine lease	20 years				
21. Production of mine/day	194.51 m ³ /day (544.65 T/day) Bulk Density =2.8				
22. Method of Mining	Opencast manual/semi-mechanized				
23. No. of Working days	260 Days				
24. Working hours/day	8 hours/day				
25. No. of Workers	41 Manpower				
26. No. of vehicles movement/day	54 Units (Assumed Loading Capacity: 10 m ³ /Unit)				
27. Type of Land	State Government Land				
28. Ultimate Depth of Mining	30 m (345mRL – 315 mRL) (source: Approved Mining Plan)				
29. Nearest metalled road from site	Babina Road, 780m, East				
30. Water Requirement	Source	Purpose	Detail	Avg. Demand /Day(in KLD)	
	Portable Tanker	Drinking @15 lpcd/worker	41 workers x 15lpcd = 615lit/day	0.615KLD	
		Land reclamation/plantation @2 Lit/Tree	400Trees x2lpcd) = 800 Lit/day	0.8 KLD	
		Dust suppression twice in a day	Haul Road Area = (730m Length	10.22 KLD	

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	(Haulage Road Area) @1 Lit/Sq.m	x 7m Width = 5110m ² x 1 lit/sq.m = 5110 litx 2(Twice per day) = 10220 lit/day	
	Total		11.635 KLD
31. Name of QCI Accredited Consultant with QCI No. and period of validity.	GLOBUS ENVIRONMENT ENGINEERING SERVICES Certificate No. NABET/EIA/1821/IA0034, Extension Validity Till September 29/2021		
32. Any litigation pending against the project or hand in any court	No		
33. Details of 500 m Cluster Map & certificate issued by Mining Officer	Cluster certificate issued by DMO (Mining Section), Jhansi Letter No. 2573/30एम. एम. सी/2021-22, Date - 31/03/2021		
34. Details of Lease Area in approved DSR	Pg No. 41, Sr. No. 51		
35. Total Cost of Project	Rs. 146.66 Lakhs		
36. Proposed CER Cost	Rs. 3.00 Lakhs (2% of the total Project Cost)		
37. Proposed EMP Cost	Rs. 28.07 Lakhs		
38. Length and breadth of Haul Road	Length 730 m & Width 7 m		
39. No. of Trees to be Planted	400 Trees		

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
5. There is no litigation pending in any court regarding this project.
6. The project proposal falls under category-1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-08

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-1 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

1. In rocky places the soil below is made up of the impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. Therefore, plantation should be done only after drilling about 2 feet below ground and proper manuring should be done along with plant growth promoters for proper growth of the plants.
2. Agreement between project proponent and competent authority for safe disposal of municipal solid waste should be provided at the time EIA presentation.
3. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the quarry area. The surface runoff rain water harvesting and other water conservation measures of long term basis are to be taken in consultation with central/State Ground water Board. The water so collected should be utilized for watering the haulage area, roads and green belt development etc.
4. Plan for vehicular movement.

9. Stone Mining at Arajai No./Plot No.-712, Khand No.-05, Village-Chhikahra, Tehsil-Sadar, Mahoba., Shri Raj Kumar Sharma., Area-2.023 ha. File No. 6429/Proposal No. SIA/UP/MIN/64372/2021

A presentation was made by the project proponent along with their consultant M/s Paramarsh Servicing Environment and Development. The proponent, through the documents submitted and the presentation made informed the committee that:-

1. The terms of reference is sought for Stone Mining at Arajai No./Plot No.-712, Khand No.-05, Village-Chhikahra, Tehsil-Sadar, Mahoba, U.P. (Leased Area-2.023 ha.).
2. Salient features of the project as submitted by the project proponent:

1.	On-line proposal No.	SIA/UP/MIN/64372/2021																		
2.	File No. allotted by SEIAA, UP	6429																		
3.	Name of Proponent	Shri Raj Kumar Sharma																		
4.	Full correspondence address of proponent and mobile no.	Shri Raj Kumar Sharma S/o Shri Nand Lal Sharma R/o-Sector B-1, M.N.-30 Pam Villa Sushant Golf City Ansal Thana- P.G.I. Lucknow (U.P.)- 226030 Mobile no. – 8299812274 E mail ID - ssinfratech6@gmail.com																		
5.	Name of Project	Terms of References (ToR) for Environment Clearance of Proposed Building Stone [Khanda, Boulder, Ballast (Gitti)] mine at Arajai No. /Plot No. – 712, Khand No.-05, Area 2.024 ha (5.00 Acres) at Village – Chhikahra, Tehsil- Sadar, District- Mahoba, Uttar Pradesh of M/s S.S. Infratech.																		
6.	Project Location (Plot. Khasra/Gata No.)	712, Khand No.-05																		
7.	Name of River	Ken River – 41.57 Km (E)																		
8.	Name of Village	Village – Chhikahra, Tehsil- Sadar, District- Mahoba, Uttar Pradesh																		
9.	Tehsil	Sadar																		
10.	District	Mahoba																		
11.	Name of Minor Mineral	Building Stone [Khanda, Boulder, Ballast (Gitti)]																		
12.	Sanctioned Lease Area (in Ha.)	2.024 ha																		
13.	Max. & Min mRL within lease area	Highest 208.95 mRL Lowest 186.10 mRL																		
14.	Pillar Coordinates (Verified by DMO)	<table border="1"> <thead> <tr> <th>Point</th><th>Latitude</th><th>Longitude</th></tr> </thead> <tbody> <tr> <td>A</td><td>25°22'04.408"N</td><td>79°52'47.780"E</td></tr> <tr> <td>B</td><td>25°22'02.456"N</td><td>79°52'50.753"E</td></tr> <tr> <td>C</td><td>25°22'02.999"N</td><td>79°52'52.018"E</td></tr> <tr> <td>D</td><td>25°21'57.758"N</td><td>79°52'51.600"E</td></tr> <tr> <td>E</td><td>25°21'58.334"N</td><td>79°52'47.269"E</td></tr> </tbody> </table>	Point	Latitude	Longitude	A	25°22'04.408"N	79°52'47.780"E	B	25°22'02.456"N	79°52'50.753"E	C	25°22'02.999"N	79°52'52.018"E	D	25°21'57.758"N	79°52'51.600"E	E	25°21'58.334"N	79°52'47.269"E
Point	Latitude	Longitude																		
A	25°22'04.408"N	79°52'47.780"E																		
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D	25°21'57.758"N	79°52'51.600"E																		
E	25°21'58.334"N	79°52'47.269"E																		
15.	Total Geological Reserves	6,25,248 m ³																		
16.	Total Mineable Reserve	5,73,67 m ³																		
17.	Total Proposed Production	6,25,000 m ³ in Five Years																		
18.	Proposed Production /year (as per LoI)	1,25,000 m ³																		
19.	Sanctioned Period of Mine lease	5 years																		
20.	Production of mine/day	417 m ³ /day																		
21.	Method of Mining	Opencast, /Semi-mechanized																		
22.	No. of working days	300																		
23.	Working hours/day	8																		
24.	No. of worker	55																		
25.	No. of vehicles movement/day	52																		
26.	Type of Land	Govt./Non Forest Land																		

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27.	Ultimate of Depth of Mining	10.0 m
28.	Nearest metalled road from site	0.50 km
29.	Water Requirement	PURPOSE
		Drinking - 0.55 KLD
		Suppression of dust - 6.0 KLD
		Plantation - 0.212KLD
		Others (if any) - 0.00 KLD
		Total - 6.762 KLD
30.	Name of QCI Accredited Consultant with QCI No and period of validity.	Paramarsh Servicing Environment and development NABET/EIA/1821 RA 0120 Valid till – 19/10/2021
31.	Any litigation pending against the project or land in any court	No
32.	Details of 500 m Cluster Certificate verified by Mining Officer	Letter No – 8128/MMC-30/2020-21, dated - 11/02/2021
33.	Details of Lease Area in approved DSR	Serial no. 102, Page no. 81
34.	Project Cost	1.10 Crore
35.	Proposed CER cost	2.20 lacs
36.	Proposed EMP cost	Applying for ToR
37.	Length and breadth of Haul Road	Length – 0.50 km Breadth – 6.00 m
38.	No. of Trees to be Planted	212

3. The mining would be restricted to unsaturated zone only above the phreatic water table and will not intersect the ground water table at any point of time.
4. The mining operation will not be carried out in safety zone of any bridge or embankment or in eco-fragile zone such as habitat of any wild fauna.
5. There is no litigation pending in any court regarding this project.
6. The project proposal falls under category–1(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-09

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-1 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

1. In rocky places the soil below is made up of the impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. Therefore, plantation should be done only after drilling about 2 feet below ground and proper manuring should be done along with plant growth promoters for proper growth of the plants.
2. Agreement between project proponent and competent authority for safe disposal of municipal solid waste should be provided at the time EIA presentation.
3. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the quarry area. The surface runoff rain water harvesting and other water conservation measures of long term basis are to be taken in consultation with central/State Ground water Board. The water so collected should be utilized for watering the haulage area, roads and green belt development etc.
4. Plan for vehicular movement.

10. Soil Mining at Khasra No.- 73, Village- Mitai, Tehsil & District- Hathras. Shri Ramesh Singh, Area-1.055 ha. File No. 6433/Proposal No. SIA/UP/MIN/217976/2021

RESOLUTION AGAINST AGENDA NO-10

The project proponent/consultant did not appear. The committee discussed and deliberated that project file should be closed and be opened only after request from the project proponent. The file shall not be treated as pending at SEAC. The matter will be discussed only after submission of online request on prescribed online portal.

(Dr. Harikesh Bahadur Singh)
Chairman, SEAC-2

(Dr. Amrit Lal Haldar)
Member, SEAC-2

(Dr. Dineshwar Prasad Singh)
Member, SEAC-2

(Tanzar Ullah Khan)
Member, SEAC-2

(Prof. Jaswant Singh)
Member, SEAC-2

(Dr. Shiv Om Singh)
Member, SEAC-2

Standard Terms of Reference for the Mining Project prescribed by MoEF&CC, GoI

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.

- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- 21) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
- 22) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive

receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

- 23) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 24) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 25) Description of water conservation measures proposed to be adopted in the Project should be given.
- 26) Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater.
- 29) Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 30) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 31) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- 32) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 33) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 34) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 35) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 36) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 37) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 38) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 39) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should

inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.

- 40) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 41) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 42) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 43) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 44) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 45) Besides the above, the below mentioned general points are also to be followed:-
 - a) Executive Summary of the EIA/EMP Report
 - b) All documents to be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - j) The EIA report should also include: (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.