

Minutes of 629th SEAC-1 Meeting Dated 25/02/2022

The 629th meeting of SEAC-1 was held in the Directorate of Environment, U.P. through dual-mode (physically/virtually) at 11:00 AM on 25/02/2022. Following members participated in the meeting:

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|----|-----------------------------|-------------------------------|
| 1. | Shri Rajive Kumar, | Chairman, SEAC-1 (through VC) |
| 2. | Dr. Ajai Mishra, | Member, SEAC-1 (through VC) |
| 3. | Shri Om Prakash Srivastava, | Member, SEAC-1 (through VC) |
| 4. | Dr. Brij Bihari Awasthi, | Member, SEAC-1 (through VC) |
| 5. | Shri Umesh Chandra Sharma, | Member, SEAC-1 (through VC) |
| 6. | Dr. Ratan Kar, | Member, SEAC-1 (through VC) |

The Chairman welcomed the members to the 629th SEAC-1 meeting which was conducted via dual-mode (virtually/physically). Nodal Officer, SEAC-1 informed the committee that the agenda has been approved by the Member Secretary, SEAC-1/Director Environment. Nodal Officer, SEAC-1 placed the agenda items along with the available file and documents before the SEAC-1.

1. Stone, Khanda–Boulder/Gitti-Baillast Mining at Gata No- 505 (Khand-01), Village Patha, Tehsil-Garautha, Jhansi., M/s Ratan Stone Gramudyog., Area 1.618 Ha. File No. 6833/Proposal No. SIA/UP/MIN/247685/2021

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Environmental Research and Analysis, Lucknow. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged:

1. The environmental clearance is sought for Stone, Khanda–Boulder/Gitti-Baillast Mining at Gata No.- 505 (Khand- 01), Village Patha, Tehsil- Garautha, District- Jhansi, U.P. (Leased Area :1.618 Ha.), M/s Ratan Stone Gramudyog.
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/247685/2021		
2. File No. allotted by SEIAA, UP	6833		
3. Name of Proponent	M/S. RATAN STONE GRAMUDYOG Proponent- Shri Ratan Singh Yadav S/O- Shri Hiralal		
4. Full correspondence address of proponent and mobile no.	R/o- Village: Poonchh, Thana: Poonchh District: Jhansi(U.P.)		
5. Name of Project	Building Stone, Khanda - Boulder / Gitti - Ballast) Mining Project		
6. Project location (Plot/Khasra/Gata No.)	Gata No- 505 (Khand-01)		
7. Name of River	NA		
8. Name of Village	Patha		
9. Tehsil	Garautha		
10. District	Jhansi(U.P.)		
11. Name of Minor Mineral	Building Stone, Khanda - Boulder / Gitti - Ballast) Mining Project		
12. Sanctioned Lease Area (in Ha.)	1.618 Ha.		
13. Mineable Area (in Ha.)	1.11 Ha. (Safety Margin 0.508 Ha.)		
14. Zero level mRL	NA		
15. Max. & Min mrl within lease area	Maximum & Minimum mRL is 177 & 168 mRL respectively		
16. Pillar Coordinates (Verified by DMO)	Pillar	LATITUDE	LONGITUDE

	Name		
	A.	25°41'01.76"N	79°07'26.19"E
	B.	25°41'04.21"N	79°07'27.00"E
	C.	25°41'03.91"N	79°07'27.64"E
	D.	25°41'05.09"N	79°07'28.35"E
	E.	25°41'04.80"N	79°07'29.88"E
	F.	25°41'02.25"N	79°07'29.41"E
	G.	25°41'01.76"N	79°07'29.87"E
	H.	25°41'00.72"N	79°07'29.73"E
	I.	25°41'00.46"N	79°07'28.67"E
	J.	25°40'56.06"N	79°07'26.11"E
	K.	25°40'56.05"N	79°07'25.47"E
	L.	25°40'56.74"N	79°07'25.08"E
	M.	25°40'58.27"N	79°07'25.80"E
N.	25°41'00.72"N	79°07'26.29"E	
17. Total Geological Reserves	5,53,161 m ³		
18. Total Mineable Reserves in LOI	32,360 m ³ per year		
19. Total Proposed Production (in five year)	1,61,800 m ³ in 5 years		
20. Proposed Production/year	32,360 m ³ per year		
21. Sanctioned Period of Mine lease	20 Year		
22. Production of mine/day	129.44 m ³ /day		
23. Method of Mining	Open cast, Semi-Mechanized		
24. No. of working days	250		
25. Working hours/day	8 hours/day		
26. No. Of workers	Approximately 26 workers		
27. No. Of vehicles movement/day	10-12 Vehicles movement/day		
28. Type of Land	Government Land (Rocky Barren)		
29. Ultimate Depth of Mining	3 m per year		
30. Nearest metalled road from site	SH-42 about 9.70 km towards South East direction from the project site.		
31. Water Requirement	PURPOSE	REQUIREMENT (KLD)	
	Drinking	0.36 KLD	
	Suppression of Dust	3.0 KLD	
	Plantation	1.618 KLD	
	Others (if any)	-	
	Total	4.98 KLD approx.	
32. Name of QCI Accredited Consultant with QCI No and period of validity.	M/s 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-294/30.M.M.C/2021-22 Date-24/06/2021		
35. Details of Lease Area in approved DSR	letter no-1968/30MMC/Vigyapti-Kh.Bo./Gi.Bai./2020-21 dated 22/01/2021, Sl. No- 33		
36. Proposed EMP cost	Rs 46,50,250/-		
37. Proposed Total Project cost	Rs. 95,00,000/-		
38. Length and breadth of Haul Road	250 m length and 6 m width		
39. No. of Trees to be Planted	1618		

3. The mining would be restricted to the unsaturated zone only above the phreatic water table and will not intersect the groundwater table at any point in time.
4. The mining operation will not be carried out in the safety zone of any bridge or embankment or eco fragile zone such as the 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 the grant of environmental clearance for the project proposal along with general and specific conditions as annexed at Annexure-1 to the minutes. The committee also stipulated the following specific conditions:

1. The project proponent shall install solar light in their site office.
2. During the submission of 6 monthly compliance reports, the project proponent should make sure that the periodically taken site photographs should also be annexed along with the compliance report.
3. Preference should be given to indigenous local species as per the consultation of the local district Forest Officer.
4. The maximum height of the bench should be 06 meters and the width of the bench should be at least twice the height of the bench as per the mine plan approval letter by DGM, U.P
5. In case the blasting is proposed during a mining operation, the project proponent needs to assess its impact on the displacement of human beings/wild animals/birds/other species, and the suitable measures proposed and taken for their rehabilitation and resettlement need to be clearly described in first 6 monthly compliance report.
6. The project proponent shall submit a final mine closure plan/Exit protocol for rehabilitation of mined-out land to match its surrounding land use 3years before the closure of the mine to SEIAA, UP and Department of Mines and Geology, UP for approval. The project proponent shall ensure the implementation of the approved plan under the supervision of the Dept. of Mines and Geology.
7. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flow from the quarry area. The surface runoff rainwater harvesting and other water conservation measures on a long-term basis are to be taken in consultation with the Central/State Groundwater Board. The water so collected should be utilized for watering the haulage area, roads, and green belt development, etc.
8. The project proponent shall take all suitable measures to prevent pollution of groundwater and nearby water bodies in consultation with the State Pollution Control Board and consent to operate (if applicable) should be obtained from the State Pollution Control Board before the start of production from the mine.
9. Link Road from the quarry site to the main road shall be constructed as an all-weather road with blacktopping and maintained by the project proponent.
10. Vehicular emissions should be kept under control and regularly monitored. Suitable measures shall be taken for proper maintenance of vehicles used in a quarry operation and transportation. The project proponent should explore the possibilities of rainwater harvesting.

2. Gitti/ Patthar Mining at Gata No.- 634 (Khand No.- 02), Village Nahari, Tehsil- Naraini, District- Banda, U.P. (Area : 2.25 ha.) File No. 6834/6407/Proposal No. SIA/UP/MIN/70781/2021

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Paramarsh Servicing Environment and Development. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for Gitti/ Patthar Mining at Gata No.- 634 (Khand No.- 02), Village- Nahari, Tehsil- Naraini, District- Banda, U.P., (Leased Area- 2.25 ha.).
2. The terms of reference in the matter were issued by SEIAA, U.P. vide letter no 295/Parya/SEIAA/6407/2021, dated: 27/10/2021
3. The public hearing was organized on 22/12/2021. Final EIA report submitted by the project proponent on 04/01/2022.

4. Salient features of the project as submitted by the project proponent:

1.	On-line proposal No.	SIA/UP/MIN/570781/2021		
2.	File No. allotted by SEIAA, UP	6834/6407		
3.	Name of Proponent	Shri Rohit Agarwal S/o Shri Radhey Mohan Agrawal		
4.	Full correspondence address of proponent	R/o- 6/69 W.E.A. Karolbag, New Delhi-110005		
5.	Name of Project	Gitti/ Patthar Mining Project		
6.	Project location (Plot/ Khasra /Gata No.)	Gata No.- 634 (Khand No.- 02)		
7.	Name of Village	Nahari		
8.	Tehsil	Naraini		
9.	District	Banda		
10.	Name of Minor Mineral	Gitti/ Patthar		
11.	Sanctioned Lease Area (in Ha.)	2.25 ha.		
12.	Max.& Min mRL within lease area	163 mRL- 145 mRL		
13.	Pillar Coordinates(Verified by DMO)	Pillars	Latitude (N)	Longitude (E)
		A	25° 05' 16.58"N	80° 22' 34.58"E
		B	25° 05' 11.88"N	80° 22' 38.18"E
		C	25° 05' 09.57"N	80° 22' 35.92"E
		D	25° 05' 12.88"N	80° 22' 31.31"E
14.	Total Geological Reserves	1266941 m ³		
15.	Total Mineable Reserves	762590 m ³		
16.	Total Proposed Production (in five year)	112500 m ³		
17.	Proposed Production / year	Year	Production	
		1 st	22500 m ³	
		2 nd	22500 m ³	
		3 rd	22500 m ³	
		4 th	22500 m ³	
		5 th	22500 m ³	
		Total	112500 m ³	
18.	Sanctioned Period of Mine lease	Ten Years		
19.	Production of mine/day	75 m ³ (approx.)		
20.	Method of Mining	Opencast Semi-Mechanized		
21.	No. of working days	300 days		
22.	Working hours/day	8 Hours/Day		
23.	No.Of workers	30 (approx.)		
24.	No.Of vehicle movement /day	8 (approx.)		
25.	Type of Land	Govt. revenue land		
26.	Ultimate Depth of Mining	12.0 meter (average)		
27.	Nearest metalled road from site	0.25 km		
28.	Water Requirement	PURPOSE	REQUIREMENT (KLD)	
		Drinking & Others	0.30	
		Suppression of dust	2.10	
		Plantation	3.0	
		Others(if any)	-----	
		Total	5.40	
29.	Name of QCI Accredited Consultant with QCI No and period of validity.	M/s Paramarsh (Servicing Environment and Development)., Lucknow, U.P. QCI/NABET/EIA/2124/RA0224 Validity- May 01, 2024		
30.	Any litigation pending against the project or land in any court	No		
31.	Details of 500 m Cluster Map & certificate Verified by Mining Officer	DMO, Banda vide Letter No. 3305/Khanij-30, Banda Dated 30 December, 2020		
32.	Details of Lease Area in approved DSR	DSR Sudhi Patra No.-1374/ Khanij-30, Banda, Dated 13-08-2019 at Page No.-5, S.No.- 49		
33.	Proposed CER cost	1.45 Lakh		
34.	Proposed EMP cost	21.65 Lakh		
35.	Length and breadth of Haul Road.	Length- 250m, Width- more than 6.0 m		
36.	No. of Trees to be Planted	3000		

5. The mining would be restricted to the unsaturated zone only above the phreatic water table and will not intersect the groundwater table at any point in time.
6. The mining operation will not be carried out in the safety zone of any bridge or embankment or eco-fragile zone such as the habitat of any wild fauna.
7. There is no litigation pending in any court regarding this project.
8. 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 the grant of environmental clearance for the project proposal along with general and specific conditions as annexed at Annexure-1 to the minutes. The committee also stipulated the following specific conditions:

1. The project proponent shall install solar light in their site office.
2. During the submission of 6 monthly compliance reports, the project proponent should make sure that the periodically taken site photographs should also be annexed along with the compliance report.
3. Preference should be given to indigenous local species as per the consultation of the local district Forest Officer.
4. The maximum height of the bench should be 06 meters and the width of the bench should be at least twice the height of the bench as per the mine plan approval letter by DGM, U.P
5. In case the blasting is proposed during a mining operation, the project proponent needs to assess its impact on the displacement of human beings/wild animals/birds/other species, and the suitable measures proposed and taken for their rehabilitation and resettlement need to be clearly described in first 6 monthly compliance report.
6. The project proponent shall submit a final mine closure plan/Exit protocol for rehabilitation of mined-out land to match its surrounding land use 3years before the closure of the mine to SEIAA, UP and Department of Mines and Geology, UP for approval. The project proponent shall ensure the implementation of the approved plan under the supervision of the Dept. of Mines and Geology.
7. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flow from the quarry area. The surface runoff rainwater harvesting and other water conservation measures on a long-term basis are to be taken in consultation with the Central/State Groundwater Board. The water so collected should be utilized for watering the haulage area, roads, and green belt development, etc.
8. The project proponent shall take all suitable measures to prevent pollution of groundwater and nearby water bodies in consultation with the State Pollution Control Board and consent to operate (if applicable) should be obtained from the State Pollution Control Board before the start of production from the mine.
9. Link Road from the quarry site to the main road shall be constructed as an all-weather road with blacktopping and maintained by the project proponent.
10. Vehicular emissions should be kept under control and regularly monitored. Suitable measures shall be taken for proper maintenance of vehicles used in a quarry operation and transportation. The project proponent should explore the possibilities of rainwater harvesting.

3. Stone (Khanda, Boulder, Bailast Gitti) at Gata No.-1939 Khand No.- 04 New, Village- Pahra, Mahoba, U.P. Area : 2.024 ha. File No. 6835/6317/Proposal No. SIA/UP/MIN/70763/2021

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Paramarsh Servicing Environment and Development. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for “Building Stone (Khanda, Boulder, Bailast (Gitti))” at Gata No.-1939 Khand No.- 04 New, Village- Pahra, Tehsil- Mahoba, District- Mahoba, U.P. (Leased Area : 2.024 ha.).
2. The terms of reference in the matter were issued by SEIAA, U.P. vide letter no 240/Parya/SEIAA/6317/2021, dated: 12/10/2021
3. The public hearing was organized on 23/12/2021. Final EIA report submitted by the project proponent on 04/01/2022.
4. Salient features of the project as submitted by the project proponent:

1.	On-line proposal No.	SIA/UP/MIN/70763/2021		
2.	File No. allotted by SEIAA, UP	6835/6317		
3.	Name of Proponent	SMT. SUDHA SINGH W/O SHRI JAIWANT SINGH		
4.	Full correspondence address of proponent	R/o- Village- Pahra, Tehsil & District- Mahoba U.P.		
5.	Name of Project	Building Stone (Khanda, Boulder, Bailast (Gitti)) Mining Project		
6.	Project location (Plot/ Khasra /Gata No.)	Gata No.-1939 Khand No.- 04 New		
7.	Name of Village	Pahra		
8.	Tehsil	Sadar		
9.	District	Mahoba		
10.	Name of Minor Mineral	Building Stone (Khanda, Boulder, Bailast (Gitti))		
11.	Sanctioned Lease Area (in Ha.)	2.024 ha.		
12.	Max.& Min mRL within lease area	176 mRL- 164 mRL		
13.	Pillar Coordinates(Verified by DMO)	Pillars	Latitude (N)	Longitude (E)
		A	25° 21' 39.383"	80° 03' 59.787"
		B	25° 21' 35.820"	80° 04' 04.224"
		C	25° 21' 33.106"	80° 04' 01.801"
		D	25° 21' 36.719"	80° 03' 56.959"
14.	Total Geological Reserves	1659981 m ³		
15.	Total Mineable Reserves	561252 m ³		
16.	Total Proposed Production (in five year)	500000 m ³		
17.	Proposed Production / year	Year	Production	
		1 st	100000 m ³	
		2 nd	100000 m ³	
		3 rd	100000 m ³	
		4 th	100000 m ³	
		5 th	100000 m ³	
		Total	500000 m ³	
18.	Sanctioned Period of Mine lease	10 Years		
19.	Method of Mining	Opencast Semi-Mechanized		
20.	No. of working days	300 days		
21.	Working hours/day	8 Hours/Day		
22.	No.Of workers	40 (approx.)		
23.	No.Of vehicle movement /day	33 (approx.)		
24.	Type of Land	Govt. revenue land		
25.	Ultimate Depth of Mining	15 meter (average)		
26.	Nearest metalled road from site	0.10 km		
27.	Water Requirement	PURPOSE	REQUIREMENT (KLD)	
		Drinking & Others	0.40	
		Suppression of dust	0.60	
		Plantation	2.25	
		Others(if any)	-----	
		Total	3.25	
28.	Name of QCI Accredited Consultant with QCI No and period of validity.	M/s Paramarsh (Servicing Environment and Development)., Lucknow, U.P. QCI/NABET/EIA/2124/RA0224 Validity- May 01, 2024		
29.	Any litigation pending against the project or	No		

	land in any court	
30.	Details of 500 m Cluster Map & certificate Verified by Mining Officer	DMO, Mahoba vide Letter No. 8277/MMC-30/ 2020-21 Dated 25 th February, 2021
31.	Details of Lease Area in approved DSR	Page No.-1, S.No.- 9
32.	Proposed CER cost	1.50 Lakh
33.	Proposed EMP cost	18.61 Lakh
34.	Length and breadth of Haul Road.	Length- 0.1 km, Width- more than 6.0 m
35.	No. of Trees to be Planted	200

5. The mining would be restricted to the unsaturated zone only above the phreatic water table and will not intersect the groundwater table at any point in time.
6. The mining operation will not be carried out in the safety zone of any bridge or embankment or eco-fragile zone such as the habitat of any wild fauna.
7. There is no litigation pending in any court regarding this project.
8. 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 the grant of environmental clearance for the project proposal along with general and specific conditions as annexed at Annexure-1 to the minutes. The committee also stipulated the following specific conditions:

1. The project proponent shall install solar light in their site office.
2. During the submission of 6 monthly compliance reports, the project proponent should make sure that the periodically taken site photographs should also be annexed along with the compliance report.
3. Preference should be given to indigenous local species as per the consultation of the local district Forest Officer.
4. The maximum height of the bench should be 06 meters and the width of the bench should be at least twice the height of the bench as per the mine plan approval letter by DGM, U.P
5. In case the blasting is proposed during a mining operation, the project proponent needs to assess its impact on the displacement of human beings/wild animals/birds/other species, and the suitable measures proposed and taken for their rehabilitation and resettlement need to be clearly described in first 6 monthly compliance report.
6. The project proponent shall submit a final mine closure plan/Exit protocol for rehabilitation of mined-out land to match its surrounding land use 3years before the closure of the mine to SEIAA, UP and Department of Mines and Geology, UP for approval. The project proponent shall ensure the implementation of the approved plan under the supervision of the Dept. of Mines and Geology.
7. The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flow from the quarry area. The surface runoff rainwater harvesting and other water conservation measures on a long-term basis are to be taken in consultation with the Central/State Groundwater Board. The water so collected should be utilized for watering the haulage area, roads, and green belt development, etc.
8. The project proponent shall take all suitable measures to prevent pollution of groundwater and nearby water bodies in consultation with the State Pollution Control Board and consent to operate (if applicable) should be obtained from the State Pollution Control Board before the start of production from the mine.
9. Link Road from the quarry site to the main road shall be constructed as an all-weather road with blacktopping and maintained by the project proponent.
10. Vehicular emissions should be kept under control and regularly monitored. Suitable measures shall be taken for proper maintenance of vehicles used in a quarry operation and transportation. The project proponent should explore the possibilities of rainwater harvesting.

4. Proposed Sarna Commercial Building at Village-Behtha Hajipur, Pargana & Tehsil-Loni, District- Ghaziabad., Shri Yogender Kumar, M/s Sarna Projects File No. 6838/Proposal No. SIA/UP/MIN/250019/2022

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Ind Tech House Consult. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environmental clearance is sought for proposed “Sarna Commercial Building” at Village - Behtha Hajipur, Pargana & Tehsil- Loni, District- Ghaziabad., U.P., M/s Sarna Projects.
2. The plot area is 7596.66 m² whereas built-up area will be 26280.37 m².
3. Expected population will be 5546 persons. Max number of Floors will be 2B+LG+G+4.
4. Salient features of the project as submitted by the project proponent:

17. Current Features of the project as submitted by the project proponent:			
Sl. No.	Description	Total Quantity	Unit
GENERAL			
1	Gross Plot Area	7596.66	SQMT
2	Area Under Rd Widening & Not in possession	596.12	SQMT
3	Plot Area for Gr Cov & FAR Area Calculation purpose	7000.54	SQMT
4	Proposed Built Up Area	26280.37	SQMT
5	Number of Building Blocks	1	No.
6	Max Height - (Height of tallest block)	26.9	M
7	Max No of Floors	2B+LG+G+4	No.
8	Expected Population	5546	No.
9	Total Cost of Project	51.74	CR
10	Project Activity : Commercial Retail, Food Court, Multiplexes & Banquet Halls		
AREAS			
11	Permissible Ground Coverage Area (45%)	3150.24	SQMT
12	Proposed Ground Coverage Area (44.11%)	3088.08	SQMT
13	Permissible FAR Area (250)	17501.35	SQMT
14	Proposed FAR Area (247.27)	17310.23	SQMT
15	Other Non FAR Areas	8970.14	SQMT
16	Proposed Total Built Up Area	26280.37	SQMT
WATER			
17	Total Water Requirement	208.4	KLD
18	Fresh water requirement	52.40	KLD
19	Treated Water Requirement	156.01	KLD
20	Waste water Generation	104.17	KLD
21	Proposed Capacity of STP	125	KLD
22	Treated Water Available for Reuse	83.34	KLD
23	Treated Water Recycled	156.01	KLD
24	Additional Quantity of Treated Water Required	61	KLD
25	Surplus treated water to be discharged in Municipal Sewer with Prior permission	ZERO	KLD
RAIN WATER HARVESTING			
26	Rain Water Harvesting - Recharge Pits	2	No.
PARKING			
27	Total Parking Required as / Building Bye Laws	278	ECS
28	Proposed Total Parking	280	ECS
29	Parking on Surface	23	ECS
30	Parking In Basement	257	ECS
RAIN WATER HARVESTING			
31	Proposed Green Area (10%)	700.2	SQMT
WASTE			

32	Total Solid Waste Generation	1.46	TPD
33	Organic waste	0.85	TPD
34	Quantity of Hazardous waste Generation	3.80	LPD
35	Quantity of Sludge Generated from STP	3	KG/DAY
ENERGY			
36	Total Power Requirement	1957	KW
37	DG set backup	2880	KVA
38	No of DG Sets	4	No.

5. Population Details:

	ROOMS	OCCUPANCY RATE	TOTAL POPULATION
GUEST ROOMS (Attached to Banquet Hall)	6	2	12
COMMERCIAL (Employees etc.)			
	AREA		
COMMERCIAL-RETAIL (Lower Gr & Gr floor)	6556.497	As/NBC	219
COMMERCIAL- RETAIL (Upper floors)	6984.886	As/NBC	116
BANK	260	10	26
BANQUET HALLS (2Nos)			84
FOOD COURT (Support staff)			47
MULTIPLEXES (Support Staff)			29
FACILITY MANAGEMENT STAFF	LS		100
TOTAL			625
VISITORS			
COMMERCIAL RETAIL		As/NBC	3015
FOOD COURT(Seats)	660.6	1.4	472
BANQUET HALLS	1519.7	1.8	844
MULTIPLEXES (3Nos)		Actual	578
TOTAL VISITORS			4909
TOTAL POPULATION			5546

6. Water Requirement Details:

	POPULATION/ AREA/UNIT	RATE IN LTS	TOTAL QTY IN KL
GUEST ROOMS			
DOMESTIC	12	65	0.78
FLUSHING	12	21	0.25
COMMERCIAL (Working)			
DOMESTIC	625	25	15.64
FLUSHING	625	20	12.51
VISITORS			
DOMESTIC	4437	5	22.18
FLUSHING	4437	10	44.37
FOOD COURT	Seats		
DOMESTIC	472	25	11.80
FLUSHING	472	10	4.72
TOTAL POPULATION	5546		
	Area in sqm		
GARDENING	700.20	1	0.70
	KVA		
D G COOLING	2880	0.9	10
	TR		
AIRCONDITIONING	692	10	83
FILTER BACK WASH		LS	2
TOTAL WATER REQUIREMENT			208.41

7. Parking Details:

S. No.	Parking Details	Parking
1	Total ECS Parking Required as / Building Bye Laws	278 ECS
2	Proposed Total Parking	280 ECS
3	Parking on Surface	23 ECS

4	Parking in Basements	257 ECS
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8. The project proposal falls under category-8(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:

1. Details of plot/khasra number of the proposed site.
2. Complete land documents.
3. Water balance study should be revised.
4. Permission regarding discharge of sewer from concerned authority.

5. Sand/Morrum Mining from Betwa Riverbed at Gata No.- 747, Khand No.- 02, Village-Pathrehta, Tehsil-Kalpi, District-Jalaun, U.P., Shri Anees Khan, Area:6.194 ha File No. 6839/Proposal No. SIA/UP/MIN/57295/2020

RESOLUTION AGAINST AGENDA NO-05

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 level of SEAC-1. The matter will be discussed only after submission of online request on prescribed online portal.

6. Khanda-Boulder/ Bailast- Gitti Mininig at Gata No.-515, Khand No.- 06, at Village-Sirvo, Tehsil- Garautha, District- Jhansi, U.P., Shri Harpal Singh, M/s Parmar Brothers, area-1.618 ha. File No. 6840/6136/Proposal No. SIA/UP/MIN/70651/2021

RESOLUTION AGAINST AGENDA NO-06

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 level of SEAC-1. The matter will be discussed only after submission of online request on prescribed online portal.

7. Sand/Morrum Mining at Gata No 429 and 430 Village- Bariyari, Tehsil- Naraini, Banda., Shri Sanjeev Kumar Gupta, Area: 13.362 ha File No. 6841/Proposal No. SIA/UP/MIN/70797/2022

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Cognizance Research India Pvt. Ltd. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged:

1. The terms of reference is sought for Sand/Morrum Mining at Gata No.- 429 and 430, Village-Bariyari, Tehsil- Naraini, District- Banda, U.P., (Leased Area 13.362 ha).
2. Salient features of the project as submitted by the project proponent:

1.	On-line proposal No.	SIA/UP/MIN/70797/2022
2.	File No. allotted by SEIAA, UP	6841
3.	Name of Proponent	M/s DesconBuildtech Pvt. Ltd. Director ShriSanjeev Kumar Gupta S/o ShriPrem Chandra

		Gupta		
4.	Full correspondence address of proponent and mobile No.	Registered Address: o 128/1289, K Block, Kidwai Nagar, District- Kanpur nagar (U.P.)		
		Mobile No-		
		Email-		
5.	Name of Project	Proposed riverbed Sand/Morrum mining		
6.	Project location (Plot/Khasra/Gata No.)	Gata No. 429 and 430		
7.	Name of River	Ken		
8.	Name of Village	Bariyari		
9.	Tehsil	Naraini		
10.	District	Banda		
11.	Name of Minor Mineral	Sand/Morrum		
12.	Sanctioned Lease Area (in Ha.)	13.362		
13.	Max & Min mRL within lease area	Max- 115mRL and Min-113mRL		
14.	Pillar Coordinates (Verified by DMO)	Pillar No.	Latitude	Longitude
		A	25°14'40.08"N	80°22'40.32"E
		B	25°14'26.49"N	80°23'1.32"E
		C	25°14'18.33"N	80°23'9.54"E
		D	25°14'16.95"N	80°23'13.31"E
		E	25°14'19.56"N	80°23'16.55"E
		F	25°14'21.15"N	80°23'17.97"E
		G	25°14'32.90"N	80°23'25.90"E
		H	25°14'30.93"N	80°23'25.56"E
		I	25°14'21.55"N	80°23'20.69"E
		J	25°14'21.42"N	80°23'19.54"E
		K	25°14'19.81"N	80°23'19.41"E
		L	25°14'18.96"N	80°23'16.34"E
		M	25°14'16.07"N	80°23'7.10"E
		N	25°14'35.34"N	80°22'35.40"E
15.	Total Geological Reserves	4,42,962cum		
16.	Total Mineable Reserves in LOI	2,67,240cum/year		
17.	Total Proposed Production	2,67,240cum/year		
18.	Proposed Production/year	2,67,240cum/year		
19.	Sanctioned Period of Mine lease	5 years		
20.	Production of mine/day	1027.84		
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	52		
25.	No. of vehicles movement/day	78		
26.	Type of Land	Government waste land		
27.	Ultimate Depth of Mining	2.333		
28.	Nearest metalled road from site	1.0 km		
29.	Water Requirement	PURPOSE	REQUIREMENT (KLD)	
		Drinking	0.52	
		Suppression of dust	5.20	

		Plantation	13.362
		Others (if any)	0.52
		Total	19.602
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 given by Mining officer	
33.	Details of Lease Area in approved DSR	Yes area is in DSR	
34.	Proposed CER cost	Rs4,81,000 /-	
35.	Proposed EMP cost	Rs1,65,15,400 /-	
36.	Length and breadth of Haul Road	Length: 0.433 km, width: 6 m	
37.	No. of Trees to be Planted	13362 plants	

3. The mining would be restricted to the unsaturated zone only above the phreatic water table and will not intersect the groundwater table at any point in time.
4. The mining operation will not be carried out in the safety zone of any bridge or embankment or eco fragile zone such as the 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. 07

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-2 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

1. The details of equipment used for baseline monitoring alongwith its photograph mentioning date, time and geo coordinates for preparation of EIA report should be clearly displayed to the people at the time of public hearing and the complete details related to monitoring period must be mentioned in the minutes of public hearing.
2. NOC from Irrigation Department regarding river bed mining activity.
3. The project proponent/Consultant should identify the core & buffer zone (2.5 km) of the mining site.
4. Agreement/ Consent between project proponent and competent authority/ landowner for haulage road from lease site to link road.
5. Proponent/ Consultant should provide the plan/information about the technology to be implemented for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement.
6. Proposed plantation plan with area specific plant species, number of plants to be planted and place of plantation along with a proper map to be submitted.
7. Water requirement details along with source of water.
8. Monitoring site photographs along with PP/PP authorized person, date, time and place with geo coordinates should be submitted at the time of EIA presentation.

8. Integrated Township at Khasra No.-402, 403ka, 516, 517 , 518, 519, 520, 521, 521, 523, 524, 546, 547,550, 551, 552min, 552min, 553, 554, 555, 556, 559, 560, 561, 564, 565, 566, 567, 568min, 568min, 568min, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 580, 590, 593, 595, 596, 598, 599-ka, 599-kh, 600, 601, 602-ka, 602-kh, 603, 604, 605, 606, 607, 608min, 608min, 608min, 609, 610, 612, 613, 614, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632-ka, 632-kh, 633, 634, 635, 636, 637, 639, 640, 641, 642, 643, 644, 645min, 645min, 645min, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655,656, 657, 658, 689, 660, 661k, 662, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 863, 931, 934, 935, 936, 937, 938, 943k, 943Ga, 943Ga, 943Gha, 944Min, 945, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 969, 970, 971, 972, 973, 974, 975, 977, 562, 563, 333, 334, 335. Village- Mastemau & Bakkas, Tehsil- Mohanlalganj, Lucknow., Shri Ajay Srivastava, M/s Amrawati Residency Pvt. Ltd. File No. 6842/Proposal No. SIA/UP/MIS/70815/2022

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Epsilon Projects Pvt. Ltd. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged:

1. The terms of reference is sought for Integrated Township at Khasra No.-402, 403ka, 516, 517 , 518, 519, 520, 521, 521, 523, 524, 546, 547,550, 551, 552min, 552min, 553, 554, 555, 556, 559, 560, 561, 564, 565, 566, 567, 568min, 568min, 568min, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 580, 590, 593, 595, 596, 598, 599-ka, 599-kh, 600, 601, 602-ka, 602-kh, 603, 604, 605, 606, 607, 608min, 608min, 608min, 609, 610, 612, 613, 614, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632-ka, 632-kh, 633, 634, 635, 636, 637, 639, 640, 641, 642, 643, 644, 645min, 645min, 645min, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655,656, 657, 658, 689, 660, 661k, 662, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 863, 931, 934, 935, 936, 937, 938, 943k, 943Ga, 943Ga, 943Gha, 944Min, 945, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 969, 970, 971, 972, 973, 974, 975, 977, 562, 563, 333, 334, 335. Village- Mastemau & Bakkas, Tehsil- Mohanlalganj, Lucknow., Shri Ajay Srivastava, M/s Amrawati Residency Pvt. Ltd.
2. Salient features of the project as submitted by the project proponent:

Sr. No.	DESCRIPTION	QUANTITY
1	Name of the Project	Ms Amrawati Residency Private Limited, Integrated Township project.
2	S. No. in the Schedule	Schedule 8 (b); Category B1 (Township and area development projects)
3	Name of the Proponent	Mr. Ajay Srivastava
4	Full Correspondence Address of Proponent	M/s Amrawati Residency Private Limited 498/143, Gopal Sadan, Faizabad Road, Near I.T Crossing, Lucknow – 226020
5	On Line Proposal No.	SIA/UP/MIS/ 70815/2022
6	File No. Allotted	6842
7	Project Site Address	Village-Mastemau & Bakkas, Tehsil- Mohanlalganj, Lucknow, Uttar Pradesh.
8	Total Plot Area (M ²)	100.00 Acres (40.49ha)
9	Built Up Area (M ²)	6,12,642.86 m ²
10	Geo-coordinates	The Geo Co-ordinates of the project site are:
Gata No.		Pillar Latitude Longitude
402, 403ka, 516, 517 , 518, 519, 520, 521, 521, 523, 524, 546, 547, 550, 551, 552min, 552min,		P1 26°47'39.64"N 81°1'46.73"E
		P2 26°47'41.10"N 81°1'47.95"E

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553, 554, 555, 556, 559, 560, 561, 564, 565,	P3	26°47'44.66"N	81°1'45.96"E
566, 567, 568min, 568min, 568min, 569, 570,	P4	26°47'44.61"N	81°1'45.84"E
571, 572, 573, 574, 575, 576, 577, 578, 580,	P5	26°47'45.34"N	81°1'45.40"E
590, 593, 595, 596, 598, 599-ka, 599-kh, 600,	P6	26°47'45.42"N	81°1'45.57"E
601, 602-ka, 602-kh, 603, 604, 605, 606, 607,	P7	26°47'51.07"N	81°1'42.81"E
608min, 608min, 608min, 609, 610, 612, 613,	P8	26°47'54.68"N	81°1'40.17"E
614, 616, 617, 618, 619, 620, 621, 622, 623,	P9	26°47'59.04"N	81°1'43.08"E
624, 625, 626, 627, 628, 629, 630, 631, 632-ka,	P10	26°47'59.77"N	81°1'41.67"E
632-kh, 633, 634, 635, 636, 637, 639, 640, 641,	P11	26°48'2.18"N	81°1'43.21"E
642, 643, 644, 645min, 645min, 645min, 646,	P12	26°48'2.68"N	81°1'42.88"E
647, 648, 649, 650, 651, 652, 653, 654, 655,656,	P13	26°48'3.24"N	81°1'43.95"E
657, 658, 689, 660, 661k, 662, 665, 666, 667,	P14	26°48'8.03"N	81°1'49.43"E
668, 669, 670, 671, 672, 673, 674, 675, 676,	P15	26°48'7.59"N	81°1'49.98"E
677, 679, 680,	P16	26°48'9.29"N	81°1'51.24"E
681, 682, 683, 684, 685, 686, 687, 688, 689,	P17	26°48'8.20"N	81°1'53.10"E
863, 931, 934, 935, 936, 937, 938, 943k, 943Ga,	P18	26°48'7.32"N	81°1'52.86"E
943Ga, 943Gha, 944Min, 945, 947, 948, 949,	P19	26°48'5.55"N	81°1'50.75"E
950, 951, 952, 953, 954, 955,956, 957, 958, 959,	P20	26°48'3.72"N	81°1'52.60"E
960, 961, 962, 969, 970, 971, 972, 973, 974,	P21	26°48'5.18"N	81°1'54.20"E
975, 977, 562, 563, 333, 334, 335.	P22	26°48'5.84"N	81°1'54.26"E
	P23	26°48'9.55"N	81°1'53.74"E
	P24	26°48'9.44"N	81°1'54.46"E
	P25	26°48'10.65"N	81°1'57.54"E
	P26	26°48'12.80"N	81°1'55.58"E
	P27	26°48'12.69"N	81°1'55.37"E
	P29	26°48'17.82"N	81°1'56.43"E
	P30	26°48'19.25"N	81°1'56.28"E
	P31	26°48'19.66"N	81°1'56.57"E
	P32	26°48'18.27"N	81°1'59.67"E
	P33	26°48'17.15"N	81°1'58.98"E
	P34	26°48'16.33"N	81°2'1.09"E
	P35	26°48'16.21"N	81°2'1.08"E
	P36	26°48'13.37"N	81°1'57.78"E
	P37	26°48'13.02"N	81°1'57.44"E
	P38	26°48'12.47"N	81°1'58.13"E
	P39	26°48'5.63"N	81°2'7.22"E
	P40	26°48'1.57"N	81°2'3.42"E
	P41	26°48'0.40"N	81°2'4.98"E
	P42	26°48'2.89"N	81°2'7.46"E
	P43	26°48'0.96"N	81°2'10.30"E
	P44	26°48'2.49"N	81°2'11.57"E
	P45	26°48'1.99"N	81°2'12.39"E
	P46	26°47'57.28"N	81°2'17.42"E
	P47	26°47'57.15"N	81°2'17.31"E
	P48	26°47'57.03"N	81°2'16.95"E
	P49	26°47'57.11"N	81°2'16.54"E
	P50	26°47'57.65"N	81°2'15.41"E
	P51	26°47'55.83"N	81°2'14.10"E
	P52	26°47'55.06"N	81°2'14.76"E
	P53	26°47'54.18"N	81°2'13.79"E
	P54	26°47'53.07"N	81°2'14.51"E
	P55	26°47'52.11"N	81°2'13.70"E
	P56	26°47'53.02"N	81°2'12.83"E
	P57	26°47'54.50"N	81°2'9.69"E
	P58	26°47'51.85"N	81°2'7.31"E
	P59	26°47'52.22"N	81°2'6.79"E
	P60	26°47'49.95"N	81°2'5.39"E
	P61	26°47'53.20"N	81°2'1.30"E

	P62	26°47'53.83"N	81°2'1.04"E
	P63	26°47'52.93"N	81°1'59.59"E
	P64	26°47'53.86"N	81°1'57.92"E
	P65	26°47'53.83"N	81°1'56.67"E
	P66	26°47'54.52"N	81°1'56.55"E
	P67	26°47'55.21"N	81°1'57.29"E
	P68	26°47'54.24"N	81°1'58.54"E
	P69	26°47'54.82"N	81°1'59.00"E
	P70	26°47'55.88"N	81°2'0.21"E
	P71	26°47'54.80"N	81°2'1.11"E
	P72	26°47'56.02"N	81°2'2.78"E
	P73	26°47'56.79"N	81°2'2.63"E
	P74	26°47'58.49"N	81°2'0.83"E
	P75	26°47'59.64"N	81°2'1.91"E
	P76	26°48'1.67"N	81°1'59.35"E
	P77	26°47'59.26"N	81°1'56.34"E
	P78	26°48'2.33"N	81°1'55.74"E
	P79	26°48'0.70"N	81°1'53.22"E
	P80	26°48'0.28"N	81°1'53.74"E
	P81	26°47'58.92"N	81°1'52.65"E
	P82	26°47'57.87"N	81°1'54.71"E
P83	26°47'56.65"N	81°1'54.03"E	
P84	26°47'56.08"N	81°1'55.17"E	
P85	26°47'53.20"N	81°1'56.43"E	
P86	26°47'46.46"N	81°1'50.58"E	
P87	26°47'39.88"N	81°1'50.34"E	
P88	26°47'38.82"N	81°1'49.82"E	
11	Nearest Railway Station along with distance in Kms	Bakkas Railway station – 3.29 Km, SW	
12	Nearest Airport along with distance in Kms	Chaudhary Charan Singh Airport, 20.00 Km	
13	Nearest River	Gomti River-2.16km (NE)	
14	Total no of Plots	541 No.	
15	Total Cost of Project	Rs 225.00 crore	
16	Expected Population	26127 No.	
AREAS			
17	Permissible FAR Area (Group Housing+ EWS)	1,85,737.91 M ²	
18	Proposed FAR Area	6,12,642.86 M ²	
19	Proposed Total Built Up Area	6,12,642.86 M ²	
WATER			
20	Total Water Requirement	2.65 MLD	
21	Freshwater Requirement	2.00 MLD	
22	Treated Water Requirement	0.65 MLD	
23	Waste Water Generation	2.25 MLD	
24	Proposed Capacity of STP	2.12 MLD	
25	Treated Water Available for Re-Use	2.025 MLD	
RAINWATER HARVESTING			
26	Rainwater harvesting –Recharge Pits	30 Nos.	
GREEN AREA			
27	Proposed green area	57890.55 Sq. m	
WASTE			
28	Total Solid Waste Generation	11.51 Kg/day in (MT)	
29	Quantity of Sludge & Evaporation Generated	0.225 MLD	
ENERGY			
30	Total Power Requirement	10,882 KVA	
31	DG Set Backup	750KVA, 750KVA, 600KVA and 600KVA	
32	N o. of DG Sets	4 Nos.	

3. The total four STPs will be proposed for the treatment of Sewerage Effluent, capacities of each STP Plant will be 1.00MLD, 0.50MLD, 0.50MLD and 0.50MLD. Total space required for STP is 1,675.86 SQM (Quantity of Effluent 80% of total collected as per MOEF norms) 2.12 MLD (approx).

4. Solid waste generation details:

Population	Rate of Solid Waste Generation kg/capita/day	Anticipated waste/day	Solid	Capacity of Solid Waste Treatment Plant (Proposed)
28773	0.4	11.51		6.3 MT.

5. The project proposal falls under category-8(b) 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 regarding the project:

1. Examine details of land use as per Master Plan and land use around 10 km radius of the project site. Analysis should be made based on latest satellite imagery for land use with raw images. Check on flood plain of any river.
2. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.
3. Examine baseline environmental quality along with projected incremental load due to the project.
4. Environmental data to be considered in relation to the project development would be (a) land, (b) groundwater, (c) surface water, (d) air, (e) bio-diversity, (f) noise and vibrations, (g) socio economic and health.
5. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area. Any obstruction of the same by the project
6. Submit the details of the trees to be felled for the project.
7. Submit the present land use and permission required for any conversion such as forest, agriculture etc.
8. Submit Roles and responsibility of the developer etc for compliance of environmental regulations under the provisions of EP Act.
9. Ground water classification as per the Central Ground Water Authority.
10. Examine the details of Source of water, water requirement, use of treated waste water and prepare a water balance chart.
11. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water. Examine details.
12. Examine soil characteristics and depth of ground water table for rainwater harvesting.
13. Examine details of solid waste generation treatment and its disposal.
14. Examine and submit details of use of solar energy and alternative source of energy to reduce the fossil energy consumption. Energy conservation and energy efficiency.
15. DG sets are likely to be used during construction and operational phase of the project. Emissions from DG sets must be taken into consideration while estimating the impacts on air environment. Examine and submit details.
16. Examine road/rail connectivity to the project site and impact on the traffic due to the proposed project. The plan should include the provision of link road from mining area to main road with black topping to prevent air pollution due to dust emission. Present and future traffic and transport facilities for the region should be analysed with measures for preventing traffic congestion and providing faster trouble free system to reach different destinations in the city.
17. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
18. Examine the details of transport of materials for construction which should include source and availability.

19. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
20. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.
21. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
22. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
23. Examine the probable displacement/ disturbance of human/wild animal/birds settlement/migration due to impact of proposed project and suggest the suitable mitigation measures
24. There should be provision of temporary shelters for workers with provision of potable drinking water, toilet facility separate for men and women to prevent and stop open defecation at project site.
25. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Townships>".

9. Stone, Khanda, Boulder, Ballast (Gitty) (Granite) & Hilly Red Morrum Mining at Araj No. 2101/2, Khand No.-01, Village-Sijahri, Tehsil- Sadar, Mahoba. Shri Shivpal Singh, M/s Shivpal Singh., Area- 0.809 Ha. File No. 6843/Proposal No. SIA/UP/MIN/70855/2022

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Environmental Research and Analysis, Lucknow. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged:

1. The terms of reference is sought for Stone, Khanda, Boulder, Ballast (Gitty) (Granite) & Hilly Red Morrum Mining at Araj No. 2101/2, Khand No.-01, Village-Sijahri, Tehsil- Sadar, District- Mahoba, U.P., (Leased Area-0.809 Ha.).
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/70855/2022		
2. File No. allotted by SEIAA, U.P	6843		
3. Name of Proponent	M/s Shivpal Singh Contractor Proponent - Shri Shivpal Singh S/o - Shri Ramgopal Singh		
4. Full correspondence address of proponent and mobile no.	R/o- Village Kumhdauramaaf, Tehsil & District-Mahoba (U.P.)		
5. Name of Project	Building Stone, Khanda , Boulder, Blastt (Gitti), [Granite] & Hilly Red Morrum Mining Project		
6. Project location (Plot/Khasra/Gata No.)	Arazi No. 2101/2, Khand No.- 01		
7. Name of River	NA		
8. Name of Village	Sijahri		
9. Tehsil	Sadar		
10. District	Mahoba (U.P.)		
11. Name of Minor Mineral	Building Stone, Khanda , Boulder, Blastt (Gitti), [Granite] & Hilly Red Morrum Mining Project		
12. Sanctioned Lease Area (in Ha.)	0.809 Ha.		
13. Mineable Area (in Ha.)	0.6558 Ha. (Safety Margin 0.1532 Ha.)		
14. Zero level mRL	NA		
15. Max. & Min mrl within lease area	The highest RL found within the lease area is 244m within the east direction & lowest RL found within the lease area is 235m within the west direction.		
16. Pillar Coordinates (Verified by DMO)	Pillar	Latitude(N)	Longitude(E)
	A	25°14'05.294"N	79°49'04.105"E

	B	25°14'05.359"N	79°49'05.376"E
	C	25°14'06.274"N	79°49'07.173"E
	D	25°14'06.284"N	79°49'08.646"E
	E	25°14'02.447"N	79°49'06.211"E
	F	25°14'03.959"N	79°49'02.546"E
17. Total Geological Reserves	1,65,630 m ³		
18. Sanction Quantity as per LOI	28,922 m ³ per year		
19. Total Proposed Production (in five year)	1,44,610 m ³ in 5 year		
20. Proposed Production/year	28,922 m ³ per year		
21. Sanctioned Period of Mine lease	10 Years as per LOI		
22. Production of mine/day	115.688 m ³ /day		
23. Method of Mining	Open cast, Semi-Mechanized		
24. No. of working days	250		
25. Working hours/day	8 hours/day		
26. No. Of workers	34		
27. No. Of vehicles movement/day	8-9 Vehicles movement/day		
28. Type of Land	Building Stone, Khanda , Boulder, Blastt (Gitti), [Granite] & Hilly Red Morrum Mining Project		
29. Ultimate Depth of Mining	15 m for five years		
30. Nearest metalled road from site	NH-34/Kanpur-Sagar Hwy about 1.1 km towards East direction from the Project site.		
31. Water Requirement	PURPOSE	REQUIREMENT (KLD)	
	Drinking water	0.44 KLD	
	Dust suppression	1.8 KLD	
	Plantation	0.809 KLD	
	Others (if any)	-	
	Total	3.049 KLD or 3.1 KLD approx.	
32. Name of QCI Accredited Consultant with QCI No and period of validity.	M/s 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. 1949/ एम०एम०सी०-30/2021-22 on Date- 12/10/2021		
35. Details of Lease Area in approved DSR	Page No.- 84, S. No. 27		
36. Proposed EMP cost	Rs. 15,38,375/-		
37. Proposed Total Project cost	Rs. 75,00,000/-		
38. Length and breadth of Haul Road	150 m length and 6.0 m width		
39. No. of Trees to be Planted	809		

- The mining would be restricted to the unsaturated zone only above the phreatic water table and will not intersect the groundwater table at any point in time.
- The mining operation will not be carried out in the safety zone of any bridge or embankment or eco fragile zone such as the 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. 09

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-2 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

- The details of equipment used for baseline monitoring alongwith its photograph mentioning date, time and geo coordinates for preparation of EIA report should be clearly displayed to the

- people at the time of public hearing and the complete details related to monitoring period must be mentioned in the minutes of public hearing.
2. The project proponent/Consultant should identify the core & buffer zone (2.5 km) of the mining site.
 3. Agreement/ Consent between project proponent and competent authority/ landowner for haulage road from lease site to link road.
 4. Proponent/ Consultant should provide the plan/information about the technology to be implemented for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement.
 5. Proposed plantation plan with area specific plant species, number of plants to be planted and place of plantation along with a proper map to be submitted.
 6. Water requirement details along with source of water.
 7. Monitoring site photographs along with PP/PP authorized person, date, time and place with geo coordinates should be submitted at the time of EIA presentation.

10. Stone Khanda, Boulders, Ballast (Gitti) Granite & Red Morrum Mining at Araj No. 2509 & 2516 Village-Pahra, Tehsil- Sadar, District- Mahoba, U.P., Shri Upendra Kumar Shukla, Area- 1.303 Ha. File No. 6844/Proposal No. SIA/UP/MIN/70533/2021

The consultant informed the committee that they are strictly following the rules, regulations and other instructions of QCI/NABET. A presentation was made by the project proponent along with their consultant M/s Environmental Research and Analysis, Lucknow. Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged:

1. The terms of reference is sought for Stone Khanda, Boulders, Ballast (Gitti) Granite & Red Morrum Mining at Araj No. 2509 & 2516 Village-Pahra, Tehsil- Sadar, District- Mahoba, U.P., (Leased Area-1.303Ha.).
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/70533/2021		
2. File No. allotted by SEIAA, U.P	6844		
3. Name of Proponent	M/S SHUKLA CONTRACTOR & SUPPLIER Proponent - Shri Upendra Kumar Shukla S/o - Shri Ramkhilawan Shukla		
4. Full correspondence address of proponent and mobile no.	R/O- Mo. Rajendra Nagar, Kabrai, Tehsil & District-Mahoba (U.P.)		
5. Name of Project	Building Stone, Khanda, Boulder, Blastt (Gitti), [Granite] & Hilly Red Morrum Mining Project		
6. Project location (Plot/Khasra/Gata No.)	Arazi No. 2509, 2516		
7. Name of River	NA		
8. Name of Village	Pahra		
9. Tehsil	Sadar		
10. District	Mahoba (U.P.)		
11. Name of Minor Mineral	Building Stone, Khanda, Boulder, Blastt (Gitti), [Granite] & Hilly Red Morrum Mining Project		
12. Sanctioned Lease Area (in Ha.)	1.303 Ha.		
13. Mineable Area (in Ha.)	0.976 Ha. (Safety Margin 0.327 Ha)		
14. Zero level mRL	NA		
15. Max. & Min mrl within lease area	The highest RL & lowest RL found within the lease area is 160m in the south direction & 157m in the north-east direction.		
16. Pillar Coordinates (Verified by DMO)	Pillar	Latitude(N)	Longitude(E)
	A	25°21'07.120"N	80°03'29.548"E
	B	25°21'07.938"N	80°03'32.206"E
	C	25°21'07.513"N	80°03'33.365"E
	D	25°21'08.197"N	80°03'35.708"E
	E	25°21'07.452"N	80°03'38.819"E
	F	25°21'06.592"N	80°03'38.523"E

	G	25°21'05.407"N	80°03'36.449"E
	H	25°21'06.811"N	80°03'32.626"E
	I	25°21'07.438"N	80°03'32.943"E
	J	25°21'07.574"N	80°03'32.036"E
	K	25°21'06.861"N	80°03'31.651"E
	L	25°21'06.541"N	80°03'32.072"E
	M	25°21'05.872"N	80°03'31.640"E
	N	25°21'07.019"N	80°03'29.902"E
17. Total Geological Reserves	3,19,840 m ³		
18. Sanction Quantity as per LOI	35,833 m ³ per year as per LOI		
19. Total Proposed Production (in five year)	1,79,165 m ³ in five year		
20. Proposed Production/year	35,833 m ³ per year as per LOI		
21. Sanctioned Period of Mine lease	10 Years as per LOI		
22. Production of mine/day	143.33 m ³ /day		
23. Method of Mining	Open cast, Semi-Mechanized		
24. No. of working days	250		
25. Working hours/day	8 hours/day		
26. No. Of workers	34		
27. No. Of vehicles movement/day	11-12 Vehicles movement/day		
28. Type of Land	Building Stone, Khanda, Boulder, Blastt (Gitti), [Granite] & Red Morrum Mining Project		
29. Ultimate Depth of Mining	18 m for five years		
30. Nearest metalled road from site	NH-34 at 9.0 km towards West direction from the project site.		
31. Water Requirement	PURPOSE		REQUIREMENT (KLD)
	Drinking water		0.44 KLD
	Dust suppression		3.0 KLD
	Plantation		1.303 KLD
	Others (if any)		-
	Total		4.743 KLD or 4.74 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. 1754/ एम०एम०सी०-30/2021-22) on Date- 1/10/2021		
35. Details of Lease Area in approved DSR	Letter No.-8471/M.M.C.-30-Khanij (2020-21) on date 10-03-2021, Sl. No- 37		
36. Proposed EMP cost	Rs. 24,56,025/-		
37. Proposed Total Project cost	Rs. 85,00,000/-		
38. Length and breadth of Haul Road	250 m length and 6.0 m width		
39. No. of Trees to be Planted	1303		

3. The mining would be restricted to the unsaturated zone only above the phreatic water table and will not intersect the groundwater table at any point in time.
4. The mining operation will not be carried out in the safety zone of any bridge or embankment or eco fragile zone such as the 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. 10

The committee discussed the matter and recommended to issue the standard terms of reference for the preparation of EIA as annexed at Annexure-2 to the minutes. The committee also stipulated following additional TOR Points:

Additional TOR:

1. The details of equipment used for baseline monitoring alongwith its photograph mentioning date, time and geo coordinates for preparation of EIA report should be clearly displayed to the people at the time of public hearing and the complete details related to monitoring period must be mentioned in the minutes of public hearing.
2. The project proponent/Consultant should identify the core & buffer zone (2.5 km) of the mining site.
3. Agreement/ Consent between project proponent and competent authority/ landowner for haulage road from lease site to link road.
4. Proponent/ Consultant should provide the plan/information about the technology to be implemented for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement.
5. Proposed plantation plan with area specific plant species, number of plants to be planted and place of plantation along with a proper map to be submitted.
6. Water requirement details along with source of water.
7. Monitoring site photographs along with PP/PP authorized person, date, time and place with geo coordinates should be submitted at the time of EIA presentation.

(Dr. Ajai Mishra)
Member

(Om Prakash Srivastava)
Member

(Dr. Brij Bihari Awasthi)
Member

(Umesh Chandra Sharma)
Member

(Dr. Ratan Kar)
Member

(Rajive Kumar)
Chairman

Nodal, SEAC-1

MoM prepared by Secretariat in consultation with
Chairman & Members on the basis of decisions
taken by SEAC-1 during the meeting.

Annexure-1

General and Specific Conditions for Gitti, Patthar& Boulder Mining Projects: -

A. General Conditions:

1. This environmental clearance is subject to allotment of mining lease in favour of project proponent by District Administration/Mining Department.
2. Forest clearance shall be taken by the proponent as necessary under the law.
3. Any addition of the mining area, change of Khasra numbers, enhancement of capacity, change in mining technology, modernization, and scope of working shall again require prior environmental clearance as per EIA notification, 2006.
4. No change in the calendar plan including excavation, the quantum of mineral and waste shall be made.
5. Mining will be carried out as per the approved mining plan. In case of any violation of the mining plan, the Environmental Clearance given by SEIAA will stand cancelled.
6. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for RSPM, SPM, SO₂, NO_x monitoring. The location of the stations should be decided based on the meteorological data, topographical features, and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. The monitored data for criteria pollutants shall be regularly uploaded on the company's website and also displayed on the website.
7. Data on ambient air quality (RPM, SPM, SO₂, NO_x) should be regularly submitted to the Integrated Regional Office, MoEF&CC, GoI, Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.
8. Ambient air quality at the boundary of the mine premises shall conform to the norms prescribed in MoEF notification no. GSR/826(E) dated 16.11.09.
9. Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading, and at transfer points shall be provided and properly maintained.
10. Measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. shall be provided with earplugs/muffs and health records of the workers shall be maintained.
11. Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease traps shall be installed before the discharge of workshop effluents.
12. Personnel working in areas shall be provided with protective respiratory devices like masks and they shall also be imparted adequate training and information on safety and health aspects.
13. Special measures shall be adopted to prevent the nearby settlements from the impacts of mining activities.
14. The transportation of the materials shall be limited to the day hours' time only.
15. Provision shall be made for housing the laborers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
16. A separate Environmental Management Cell with suitably qualified personnel shall be setup under the control of a Senior Executive, who will report directly to the Head of the Organization.
17. The Project Proponent shall inform the Integrated Regional Office, MoEF&CC, GoI, Lucknow and State Pollution Control Board regarding the date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
18. The funds earmarked for environmental protection measures shall be kept in a separate account and shall not be diverted for other purposes. The year-wise expenditure shall be reported to the Integrated Regional Office, MoEF&CC, GoI, Lucknow and State Pollution Control Board

19. The Integrated Regional Office, MoEF&CC, GoI, Lucknow and State Pollution Control Board shall monitor compliance with the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan, Public hearing, and other documents information should be given to the Integrated Regional Office, MoEF&CC, GoI, Lucknow and State Pollution Control Board
20. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat, and Municipal Bodies as applicable in the matter.
21. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Level Environment Impact Assessment Authority (SEIAA).
22. The Project Proponent has to submit a regular half-yearly compliance report of the stipulated prior environmental clearance terms and conditions in hard and soft copy to the SEIAA, U.P. on 1st June and 1st December of each calendar year.
23. The SEIAA may alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.
24. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

B. Specific Conditions:

1. At the time of operation, the project proponent will comply with all the guidelines issued by the Government of India/State Govt./District Administration related to Covid-19.
2. This environmental clearance does not create or verify any claim of the applicant on the proposed site/activity.
3. In case it has been found that the E.C. obtained by providing incorrect information, submitting that the distance between the two adjoining mines is greater than 500mt. and the area is less than 05ha, but factually the distance is less than 500 mt, and the mine is located in the cluster of area equal to or more than 05ha, the E.C issued will stand revoked.
4. This environmental clearance shall be subject to a valid lease in favor of the project proponent for the proposed mining proposals. In case, the project proponent does not have a valid lease, this environmental clearance shall automatically become null and void.
5. The Environmental clearance will be co-terminus with the mining lease period/Mining Plan. The Mining plan approved by the Dept. of Mines and Geology shall be strictly implemented and shall not be operated beyond the validity period.
6. Explosive cannot be stored on the site. The Project proponent shall take approval from Chief Controller of Explosive, if applicable for use or storage of explosive or any such materials.
7. A comprehensive EIA including mining areas within 15 K.M. to assess the impact of the mining activity on the surrounding area shall be undertaken and a report submitted to this Authority within one year.
8. No two pits shall be simultaneously worked i.e. before the first is exhausted and reclamation work completed, no mineral bearing area shall be worked.
9. After exhausting the first mine pit and before starting mining operations in the next pit, reclamation and plantation work in the exhausted pit shall be completed to ensure that reclamation, forest cover, and vegetation are visible during the first year of mining operations in the next pit. This process will follow till the last pit is exhausted. Adequate rehabilitation of mined pit shall be completed before any new ore-bearing area is worked for expansion.
10. An adequate buffer zone shall be maintained between two consecutive mineral-bearing deposits.
11. The sprinkling of water on haul roads to control dust will be ensured by the project proponent.
12. Green belt development shall be carried out considering CPCB guidelines including the selection of plant species and in consultation with the local DFO / Agriculture Department. Herbs and shrubs shall also form a part of the afforestation programme besides tree plantation.

- The company shall involve local people in the plantation programme. Details of year-wise afforestation programme including rehabilitation of mined-out area shall be submitted to the Integrated Regional Office, MoEF&CC, GoI, Lucknow every year.
13. Blast vibrations study shall be conducted and an observation report submitted to the Integrated Regional Office, MoEF&CC, GoI, Lucknow and UPPCB within six months. The report shall also include measures for the prevention of blasting associated impact on nearby houses and agricultural fields.
 14. Controlled blasting techniques with sequential blasting shall be adopted. The blasting shall be carried out in the daytime only. The project proponent shall ensure prevention of displacement of human beings/wild animals/birds etc. and in case any such displacement is caused due to blasting/mining operation by any chance the project proponent shall take suitable measures for their rehabilitation and resettlement.
 15. Appropriate arrangement for shelter and drinking water for the mining workers has to be ensured at the mining site.
 16. Maintenance of village roads used for transportation of minerals is to be done by the company regularly at its own expenses. The link roads from mining area to main road shall be constructed as all-weather road with black topping and maintained by the project proponent.
 17. The surface runoff rain water harvesting/rain water recharge and water conservation measures will be taken by project proponent in consultation with central /State ground water Board .The project proponent shall plan and implement collection drain and siltation basins of adequate size to arrest the silt and sediment flows from the mining area. The supernatant of the siltation basin and rain water harvested water shall be utilized for watering the haulage area, roads and green belt development etc.
 18. Status of implementation shall be submitted to the Integrated Regional Office, MoEF&CC, GoI, Lucknow and UP Pollution Control Board within six months and thereafter every year from the next consequent year.
 19. The self-environmental audit shall be conducted annually. Every three years third-party environmental audit shall be carried out.
 20. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geotextile matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.
 21. Trenches/garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. An adequate number of Check Dams and Gully Plugs shall be constructed across seasonal/perennial nallahs if any flowing through the ML area and silts arrested. De silting at regular intervals shall be carried out.
 22. Garland drain of appropriate size, gradient, and length shall be constructed for both mine pit and waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide an adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de silted at regular intervals.
 23. Ground and surface water, if any in and near the core zone (within 5.0 km of the lease) shall be regularly monitored for contamination and depletion due to mining activity and records maintained. The monitoring data shall be submitted to the Integrated Regional Office, MoEF&CC, GoI, Lucknow and U.P. Pollution Control Board regularly. Further, monitoring points shall be located between the mine, and drainage in the direction of flow of groundwater shall be set up and records maintained.
 24. Fugitive dust generation shall be controlled. Fugitive dust emission shall be regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records submitted to the Integrated Regional Office, MoEF&CC, GoI, Lucknow and U.P. Pollution Control Board regularly.
 25. Baseline data for ambient air quality shall be generated and maintained and RSPM level in ambient air in the nearby human habitation (villages) shall also be monitored along with other parameters.

26. Corporate Environmental Responsibility (CER) shall be by the project proponent and the details of the various heads of expenditure are to be submitted as per the guidelines provided in the recent CER notification No. 22-65/2017-IA.III dated 01/05/2018. Work to be executed with the installation of five hand pumps for drinking water, solar light in villages of streets, construction of two numbers of toilets at the primary school with name displayed and address and details of the beneficiary and gram Pradhan along with phone number, photographs should be submitted to Directorate as well as to the District Magistrate / Chief Development officers.
27. Transportation of minerals shall be done by covering the trucks with tarpaulin or other suitable mechanisms so that no spillage of mineral/dust takes place.
28. Occupational health and safety measures for the workers including identification of work-related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust, etc. shall be carried out. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including the health records of the workers. Awareness programmes for workers on the impact of mining on their health and precautionary measures like the use of personal protective equipment etc. shall be carried out periodically. A review of the impact of various health measures shall be conducted followed by follow-up action wherever required.
29. The project proponent will ensure for employing local people as per requirement, necessary protection measures around the mine pit and waste dump, and garland drain around the mine pit and waste dump.
30. Topsoil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (wherever applicable) for reclamation and rehabilitation of the mined-out area. Topsoil shall be separately stacked for utilization later for reclamation and shall not be stacked along with overburden.
31. Overburden (OB) shall be stacked at the earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 20 m, each stage shall preferably be of a maximum of 10 m and the overall slope of the dump shall not exceed 35°. The OB dump shall be backfilled. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface runoff.
32. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Regional Office, Ministry of Environment & Forests, GoI, Lucknow, and U.P. Pollution Control Board on a six-monthly basis.
33. The slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by the Indian Bureau of Mines.
34. Permission for the abstraction of groundwater shall be taken from Central Ground Water Board. Regular monitoring of ground and surface water sources for level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year i.e., premonsoon (April/May), monsoon (August), post-monsoon (November), and winter (January), and the data thus collected shall be regularly sent to MoEF&CC, Central Ground Water Authority, and Regional Director, Central Ground Water Board.
35. The wastewater from the mine shall be treated to conform to the prescribed standards before discharging into the natural stream. The discharged water from the Tailing Dam, if any shall be regularly monitored and report submitted to the Integrated Regional Office, MoEF&CC, GoI, Lucknow, Central Pollution Control Board, and the State Pollution Control Board.
36. Hydrogeological study of the area shall be reviewed by the project proponent annually. In case the adverse effect on groundwater quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse impact on groundwater is implemented.
37. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of minerals and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. The vehicles transporting minerals shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the period of transportation. No overloading of minerals for transportation shall

- be committed. The trucks transporting minerals shall not pass through the wildlife sanctuary if any in the study area.
38. Prior permission from the Competent Authority shall be obtained for the extraction of groundwater if any.
 39. A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Integrated Regional Office, MoEF&CC, GoI, Lucknow and U.P. Pollution Control Board 5 years in advance of final mine closure for approval.
 40. Project Proponent shall explore the possibility of using solar energy where ever possible.
 41. Commitment towards CER has to be followed strictly.
 42. Regular health checkup record of the mineworkers has to be maintained at the site in a proper register. It should be made available for inspection whenever asked.
 43. Project Proponent has to strictly follow the direction/guidelines issued by MoEF&CC, CPCB, and other Govt. Agencies from time to time.
 44. The blasting will be done only after getting permission from the Mining Department.

Annexure-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.