

Minutes of 636th SEAC-1 Meeting Dated 14/03/2022

The 636th meeting of SEAC-1 was held in the Directorate of Environment, U.P. through dual-mode (physically/virtually) at 11:00 AM on 14/03/2022. Following members participated in the meeting:

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|----|-----------------------------|-----------------------------|
| 1. | Shri Rajive Kumar, | Chairman, SEAC-1 |
| 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 |
| 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 636th 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, Bailast (Gitti))Mining at Gata No.- 2/4 (Khand No.-09), Village- Jujhar, Tehsil- Sadar, District- Mahoba, Smt. Kirti Rani Sahu, M/s Sahu Stone Crushing Industries Area : 3.441 ha., File No. 6897/6315/Proposal No. SIA/UP/MIN/71407/202

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 environment clearance is sought for Building Stone (Khanda, Boulder, Bailast (Gitti)) Mining at Gata No.-2/4 (Khand No.-09), Village- Jujhar, Tehsil- Sadar, District- Mahoba, U.P., (Leased Area- 3.441 ha.), M/s Sahu Stone Crushing Industries.
2. The terms of reference in the matter were issued by SEIAA, U.P. vide letter no. 242/Parya/SEIAA/6315/2021, dated 12/10/2021.
3. The public hearing was organized on 24/12/2021. Final EIA report submitted by the project proponent on 28/01/2022.
4. Salient features of the project as submitted by the project proponent:

1.	On-line proposal No.	SIA/UP/MIN/71407/2021
2.	File No. allotted by SEIAA, UP	6897 / 6315
3.	Name of Proponent	M/s Sahu Stone Crushing Industries Prop.- Smt. Kirti Rani Sahu W/o Shri Sanjay Kumar Sahu
4.	Full correspondence address of proponent	R/o- Kidwai Nagar, Kabrai, 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.-2/4, (Khand No.-09)
7.	Name of Village	Jujhar
8.	Tehsil	Sadar
9.	District	Mahoba
10.	Name of Minor Mineral	Building Stone (Khanda, Boulder, Bailast (Gitti))

11.	Sanctioned Lease Area (in Ha.)	3.441 ha.		
12.	Max.& Min mRL within lease area	188 mRL- 167 mRL		
13.	Pillar Coordinates(Verified by DMO)	Pillars	Latitude (N)	Longitude (E)
		A	25°24'23.973"N	79°55'04.403"E
		B	25°24'25.943"N	79°55'12.579"E
		C	25°24'22.406"N	79°55'16.850"E
		D	25°24'21.474"N	79°55'15.603"E
		G	25°24'24.630"N	79°55'12.881"E
		E	25°24'21.917"N	79°55'09.129"E
		F	25°24'18.094"N	79°55'05.044"E
H	25°24'19.965"N	79°55'02.995"E		
14.	Total Geological Reserves	2900938 m ³		
15.	Total Mineable Reserves	981693 m ³		
16.	Total Proposed Production (in five year)	850000 m ³		
17.	Proposed Production / year	Year	Production	
		1 st	170000 m ³	
		2 nd	170000 m ³	
		3 rd	170000 m ³	
		4 th	170000 m ³	
		5 th	170000 m ³	
		Total	850000 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	45		
23.	No.Of vehicle movement /day	56 (approx.)		
24.	Type of Land	Govt. revenue land		
25.	Ultimate Depth of Mining	28 meter (average)		
26.	Nearest metalled road from site	0.30 k m		
27.	Water Requirement	PURPOSE	REQUIREMENT (KLD)	
		Drinking & Others	0.45	
		Suppression of dust	1.80	
		Plantation	3.50	
		Others(if any)	-----	
		Total	5.75	
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 land in any court	No		
30.	Details of 500 m Cluster Map & certificate Verified by Mining Officer	DMO, Mahoba vide Letter No. 7577/MMC-30/ 2020-21 Dated 6 th January, 2021		
31.	Details of Lease Area in approved DSR	DSR Correction letter sanctioned from DMO, Mahoba vide Letter No. 154/MMC-30-khanij (2021-22) Dated 12 th May, 2021 Pg. No.- 04, Sr. No.- 131		
32.	Proposed CER cost	1.85 Lakh		
33.	Proposed EMP cost	17.17 Lakh		
34.	Length and breadth of Haul Road.	Length- 0.3 km, Width- more than 6.0 m		
35.	No. of Trees to be Planted	3441		

- 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.

8. 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 grant of environmental clearance for the project proposal along with general and specific conditions as annexed at Annexure-1 to these 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.
11. The project proponent should explore the possibilities of rainwater harvesting.

2. Stone (Khanda, Boulder, Bailast (Gitti)) at Gata No.-93, Khand No.- 07, Village-Bari, Mahoba, Smt. Sukirti Singh, Area : 1.012 ha., File No. 6898/6391/Proposal No. SIA/UP/MIN/71491/2021

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 environment clearance is sought for Building Stone (Khanda, Boulder, Bailast (Gitti)) Mining at Gata No.-93 (Khand No.- 7), Village- Bari, Tehsil- Mahoba, District- Mahoba, U.P., (Leased Area- 1.012 ha.).
2. The terms of reference in the matter were issued by SEIAA, U.P. vide letter no. 289/Parya/SEIAA/6391/2021, dated 27/10/2021.

3. The public hearing was organized on 23/12/2021. Final EIA report submitted by the project proponent on 28/01/2022.

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

1.	On-line proposal No.	SIA/UP/MIN/71491/2021		
2.	File No. allotted by SEIAA, UP	6898 / 6391		
3.	Name of Proponent	Smt. Sukirti Singh W/o Shri Ramkishore Singh		
4.	Full correspondence address of proponent	R/o- Mohalla- Gandhi Nagar Mahoba, Tehsil & Distt.- Mahoba, U.P.		
5.	Name of Project	Building Stone (Khanda, Boulder, Bailast (Gitti)) Mining Project		
6.	Project location (Plot/ Khasra /Gata No.)	Gata No.-93 (Khand No.- 7)		
7.	Name of Village	Bari		
8.	Tehsil	Mahoba		
9.	District	Mahoba		
10.	Name of Minor Mineral	Building Stone (Khanda, Boulder, Bailast (Gitti))		
11.	Sanctioned LeaseArea (in Ha.)	1.012 ha.		
12.	Max.& Min mRL within lease area	178 mRL- 169 mRL		
13.	Pillar Coordinates (Verified by DMO)	Pillars	Latitude (N)	Longitude (E)
		A	25° 24' 50.200"	79° 55' 14.101”
		B	25° 24' 51.301"	79° 55' 15.403”
		C	25° 24' 40.011"	79° 55' 21.009”
		D	25° 24' 46.002"	79° 55' 21.005”
14.	Total Geological Reserves	934049 m ³		
15.	Total Mineable Reserves	195345 m ³		
16.	Total Proposed Production (in five year)	194810 m ³		
17.	Proposed Production / year	Year	Production	
		1 st	38962 m ³	
		2 nd	38962 m ³	
		3 rd	38962 m ³	
		4 th	38962 m ³	
		5 th	38962 m ³	
		Total	194810 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	36 (approx.)		
23.	No. Of vehicle movement /day	13 (approx.)		
24.	Type of Land	Govt. revenue land		
25.	Ultimate Depth of Mining	14 meter (BGL)		
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	2.00	
		Others(if any)	-----	
		Total	3.00	
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 land in any court	No		
30.	Details of 500 m Cluster Map & certificate Verified by Mining Officer	DMO, Mahoba vide Letter No. 45/MMC-30/ 2020-21 Dated April, 2021		
31.	Details of Lease Area in approved DSR	Page No.- 87, Sr. No.- 94		
32.	Proposed CER cost	1.50 Lakh		
33.	Proposed EMP cost	17.90 Lakh		

34.	Length and breadth of Haul Road.	Length- 0.10 km, Width- more than 6.0 m
35.	No. of Trees to be Planted	2000

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 grant of environmental clearance for the project proposal along with general and specific conditions as annexed at Annexure-1 to these 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.
11. The project proponent should explore the possibilities of rainwater harvesting.

3. **Development of Industrial Manufacturing Cluster (IMC) with an area of 1053 acres i.e., 426 ha. At Khasra No.- Rahan Kalan- 172, 249-267, 379-382, 396, 405, 407, 409-424, 426-427, 429-441, 443-448, 449Mi-451Mi, 452-478, 493Mi-495Mi, 496-501, 502Mi, 503-505, 507-508, 509Mi, 510Mi, 513Mi, 514-533, 535-547, 548Mi, 549-554, 556-565, 566Mi-568Mi, 570-571, 573-574, 576-577, 578Mi, 580-586, 588-593, 594-597, 600-602, 603Mi, 604, 605Mi, 606-614, 616, 618Mi, 621-627, 629-644, 646-648, 649Mi-650Mi, 651-818, 819Mi, 820, 821Mi, 822, 823Mi, 824Mi, 825Mi, 825-826, 827Mi, 828-829, 836, 840, 842-853, 855-881, 883-894, 903Mi, 904Mi, 903-916, 918-926, 927Mi, 928-1048, 1051-1067, 1069, 1076-1078, 1082Mi, 1083-1084, 1088, 1090-1094, 1095Mi, 1096, 1097Mi, 1098-1122, 1125 1170, 1176, 1177/1, 1177/2, 1177/3, 1178, 1179Mi-1180Mi , 1181-1190, 1200-1201, 1208-1216, 1217Mi, 1218-1221, 1222Mi-1224Mi, 1225, 1226Mi, 1227-1229, 1231-1232, 1238-1239, 1238Mi-1239Mi, 1243-1244, 1253-1256, 1258, 1260/278, 1262/709, 1263/809, Raipur-709-713, 715-719, 722-724, 726-729, 732-735, 737-740, 742-753, 759-766, 775, 778, 895-903, 919Oka, kha; 922Ka, Kha, Ga; 923, 924/1Ga, cha, chha, kha, dha; 925-926, 930-932, 935-941, 944-946, 953Ga, Dha, Mi, Cha, Chha; 953/2Mi; 955, 957-960, 961Mi, 962-965, 966Mi-967Mi, 968-969, 971, 972Mi, 973, 974Mi, 975Mi, 976, 979Mi, 978, 986, 990, 993Mi, 994, 995Mi, 996Mi, 998-1066, 1002Mi, 1009Mi, 1016Mi, 1018Mi, 1068, 1074, Villages- Rahan Kalan and Raipur, Tehsil-Etmadpur , District- Agra Shri Vishwas Kumar Tyagi, Uttar Pradesh State Industrial Development Authority (UPSIDA), File No. 6899/Proposal No. SIA/UP/MIS/71283/2022**

RESOLUTION AGAINST AGENDA NO. 03

Chairman, SEAC-1 had a telephonic conversation with Director, NEERI. Director, NEERI promised to nominate a member in compliance of MoEFCC, Govt. of India OM No. F.No. IA3-22/43/2021-IA.III (E170472), dated 07/03/2022 in next 2-3 days. Hence, Chairman, SEAC directed that this case pertaining to TTZ shall be listed in proposed SEAC meeting dated 06/04/2022.

4. **Earth Excavation at Gata No.-225, Vill.: Dada Sikandarpur, Tehsil: Mohanlalganj, District- Lucknow, Shri Buddha Lal, Area: 0.914 Ha., File No. 6900/Proposal No. SIA/UP/MIN/253829/2022**

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 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 environment clearance is sought for Ordinary Earth Excavation at Khasra/Gata Nos- 225, Village-Dada Sikandarpur, Tehsil: Mohanlalganj, District- Lucknow, Uttar Pradesh. (Leased Area: 0.914 Ha.).
2. Salient features of the project as submitted by the project proponent:

1.	On-line proposal No.	SIA/UP/MIN/253829/2022
2.	File No. allotted by SEIAA, UP	6900
3.	Name of Proponent	Shri Budhha Urf Buddha Lal S/o Shri Jodha,

4.	Full correspondence address of proponent and mobile no.	R/o- Vill.: Dada Sikandarpur, Gadiana, Tehsil: Mohanlalganj, District- Lucknow, Uttar Pradesh.			
		Mobile No. – 9838568879			
		E mail ID - budhhalal01@gmail.com@gmail.com			
5.	Name of Project	Ordinary Earth Excavation Project			
6.	Project Location (Plot. Khasra/Gata No.)	Khasra/Gata Nos- 225, in Vill.: Dada Sikandarpur, Tehsil: Mohanlalganj, District- Lucknow, Uttar Pradesh. (Lease Area: 0.914 Ha.).			
7.	Name of River	NA (This is Ordinary Earth Excavation Project, Nearest River- Gomti River)			
8.	Name of Village	Dada Sikandarpur			
9.	Tehsil	Mohanlalganj			
10.	District	Lucknow			
11.	Name of Minor Mineral	Ordinary Earth			
12.	Sanctioned Lease Area (in Ha.)	0.914 Ha			
13.	Max. & Min mRL within lease area	The highest level is 123.0mRL The lowest level is 122.8 mRL			
14.	Pillar Coordinates (Verified by DMO)	Pillar	Latitude	Longitude	
		A	26°39'41.54"N	81° 0'42.47"E	
		B	26°39'44.68"N	81° 0'44.08"E	
		C	26°39'43.52"N	81° 0'46.91"E	
		D	26°39'40.94"N	81° 0'45.39"E	
15.	Total Geological Reserves	19651 m ³			
16.	Total Mineable Reserve	14962.36 m ³			
17.	Total Proposed Production	14962.36 m ³ (3.0 Months)			
18.	Proposed Production /year (as per LoI)	NA			
19.	Sanctioned Period of Mine lease	3 Months			
20.	Production of mine/day	166.24 m ³ /day			
21.	Method of Mining	Semi Mechanized			
22.	No. of working days	90			
23.	Working hours/day	-			
24.	No. of worker	10			
25.	No. of vehicles movement/day	8			
26.	Type of Land	Private land./Non Forest Land			
27.	Ultimate of Depth of Mining	2.15 m (For Mining Plan Period)			
28.	Nearest metalled road from site	0.01 km			
29.	Water Requirement	PURPOSE			
		Drinking	- 0.05 KLD		
		Suppression of dust	- 3.60 KLD		
		Plantation	- 0.04 KLD		
		Others (if any)	- 1.00 KLD		
		Total	- 3.69 KLD		
30.	Name of QCI Accredited Consultant with QCI No and period of validity.	Paramarsh Servicing Environment and development NABET/EIA/2124 RA 0224 Valid till – 01/05/2024			
31.	Any litigation pending against the project or land in any court	No			
32.	Details of 500 m Cluster Certificate verified by Mining Officer	Letter No. 07, Dated-27/01/2022			
33.	Details of Lease Area in approved DSR	Ordinary Earth Mining			
34.	Project Cost	12.0 Lacs for 3 months			
35.	Proposed CER cost	0.60 Lacs			
36.	Proposed EMP cost	1.00 Lacs			
37.	Length and breadth of Haul Road	Length-100 m, Breadth-6. m			
38.	No. of Trees to be Planted	10			

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. 04

The committee discussed the matter and recommended grant of environmental clearance for the project proposal along with general and specific conditions as annexed at Annexure-2 to these minutes.

5. Industrial Shed “ Bus AC Assembly Unit” at Plot No 03, Sector 156, Noida, Shri Ankur Awana,, M/s Motherson Auto Ltd., File No. 6901/Proposal No. SIA/UP/MIS/241345/2021

RESOLUTION AGAINST AGENDA NO-05

The committee noted that an application for environmental clearance for Industrial Shed “Bus AC Assembly Unit” at Plot No 03, Sector 156, Noida, U.P., M/s Motherson Auto Ltd. was submitted to SEIAA on dated 29/01/2022. The project proponent requested for exemption from the requirement of environmental clearance in light of provisions made in MoEF&CC, Govt. of India Notification No. S.O. 3252(E) dated 22/12/2014.

A presentation was made by the project proponent along with their consultant M/s Paramarsh Servicing Environment and Development. The committee went through the MoEF&CC, Govt. of India Notification dated 22/12/2014, wherein the following provisions have been mentioned:

"The project or activities shall not include industrial shed, school, college, hostel for education institution but such building shall ensure sustainable environmental management, solid and liquid waste management, rain water harvesting and may use recycled materials such as fly ash bricks."

The committee observed that the project proposal relates to construction of “Bus AC Assembly Unit” which falls under category of Industrial Shed hence, provisions of exemption given under Notification no. S.O. 3252(E), dated 22/12/2014 shall be applicable in the matter and exemption from requirement of environmental clearance may be granted.

The committee also directed the project proponent to ensure sustainable environmental management, solid and liquid waste management, rain water harvesting and use of recycled materials such as fly ash bricks in the construction/operation of the project as stipulated under Notification, dated 22/12/2014 and regular compliance reports should be submitted.

6. IT/ITES Park at Industrial Plot No. 04, Sector 156, Noida, U.P., M/s Motherson Sumi Infotech & Designs Ltd., Shri Rajesh Srivastava, R/o- plot no. 04, Sector 156, Noida, File No. 6902/Proposal No. SIA/UP/MIN/244915/2021

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 environment clearance is sought for IT/ITES Park at Industrial Plot No. 04, Sector 156, Noida, U.P., M/s Motherson Sumi Infotech & Designs Ltd.

2. Area details of the project:

Details	Proposed details (sq m)
Plot Area	As per Allotment Letter (Noida/IND/2018/2918 dated 3.7.2018) – 20,000 m ² As per supplementary Letter, Noida/(IND)/2018/3788, dated 13.9.2018 – 20008.40 m ² For Application – 20008.40 m ²
No. of Buildings / Blocks	2 Towers Guard room, Service and Utility Area
No. of Floors	Max. 3 Stilt + G + 16
Permissible Ground Coverage	30% of plot area, 6002.52 m ² 5% of plot area for stilt – 1000.42 m ² Total Permissible Ground Coverage – 7002.94 m ²
Proposed Ground Coverage	20 % of plot, 3995.327 m ²
Permissible FAR	2.5 of Plot, 50021.00 m ²
Proposed FAR	2.49 of Plot, 49917.416 m ²
Permissible Service Area	15% of FAR, 7503.15 m ²
Proposed Service Area	4867.57 m ²
Proposed Non - FAR	38982.57 m ²
Built up area	93767.56 m ²

3. Salient features of the project:

Description	Details
Total Area	20008.40 sqm
Green belt area	<ul style="list-style-type: none"> 8179 m² – 41% of Total Plot area Number of Trees to be planted- 170
No. of Buildings/Blocks	2 Towers Guard room, Service and Utility Area
No. of Floors	Max. 3 Stilt + G + 16
Total Expected Population (Staff + floating) @10m ²	Staff + Utilities + Security - 5000 + visitors @15% = 750
Source of water supply	Municipal
Fresh Water requirement	236.00 KLD
Quantity of wastewater generation	212.00 KLD
Disposal of waste water	Waste water will be treated in to the sewage treatment plant having capacity of 250 KLD.
Sewage Treatments Plant (STP)	STP of total capacity 250 KLD (MBBR Technology)
Power	Total Requirement – 9800 kW Peak Demand Load – 7005 kW Transformer – 3 X 2500 kW
Solid waste generation	Total solid waste – 2943 Kg/day Management of Solid waste as per the solid waste management Rule, 2016 and organic waste converter shall be installed for biodegradable waste management.
Plantation	170 Nos
D G Set Proposed	DG set of 4 x 1010 kVA., 1 X 500 kVA
Use of Solar Energy	Solar panels for 8 kW power would be installed. As per electrical calculations open area requires 8 kW of electrical power for lighting
Municipal Solid Waste	Approx. 2250 Kg/Day It would be segregated at source and then lifted by a municipal solid waste management company
e-waste	E-waste would be collected and stored at secured place. It would be sold to CPCB approved e-waste recyclers
Hazardous Waste	Waste oil from DG Sets, it would be managed through registered waste recyclers

Plastic Waste	All the premises would be plastic free
Parking	The norm is @50 m2 Total Parking Required is 998 ECS Total Parking Provided – 1219 ECS (all parking on podium and stilt) Podium 1 – 439 Podium 2 – 439 Stilt 1 – 113 Stilt 2 – 113 Stilt 3 – 113 Adequate Parking space for 1219 ECS, has been provided. All parking would be internalized
Rain water harvesting pits	05 nos

4. Water requirement details:

Total Expected Population (Staff + floating) @10m ²	Staff + Utilities + Security - 5000 + visitors @15% = 750
Water Requirement @45litres for staff @15 litres for floating	Total water requirement – 225 KLD for staff & 11 KLD for floating Total Domestic requirement – 236 KLD Total Freshwater Requirement – 111 KLD
Source of Water	Groundwater from Municipal Supply. Tanker water would be used for construction.
Wastewater generation (90% of water use)	212 KLD Total – 212 KLD
In-house STP	In house STP of 250 KLD with MBBR Technology.
Treated Wastewater	210 KLD
Recycling and reuse of treated water	Flushing – 125 KLD HVAC Cooling – 75 KLD Horticulture – 10 KLD
Discharge of Wastewater in Public Sewer	ZLD

5. The project proposal falls under category–8(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-06

The committee discussed the matter and recommended grant of environmental clearance on the proposal as above along with following standard environmental clearance conditions prescribed by MoEF&CC, GoI:

1. Project proponent shall identify 02 villages and adopt them for its development.
2. In compliance to Hon'ble Supreme Court order dated 13/01/2020 in IA no. 158128/2019 and 158129/2019 in Writ petition no. 13029/1985 (MC Mehta Vs. GOI and others) anti-smog guns shall be installed to reduce dust during excavation.
3. Statutory compliance:
 1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
 2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.
 3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
 4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
4. Air quality monitoring and preservation:
 1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
 2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
 3. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
 4. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
 5. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
 6. Sand, murrum, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
 7. Wet jet shall be provided for grinding and stone cutting.
 8. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
 9. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
 10. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
 11. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise

pollution. Low Sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

12. For indoor air quality the ventilation provisions as per National Building Code of India.
5. Water quality monitoring and preservation:
 1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
 2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
 3. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
 4. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
 5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
 6. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
 7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
 8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
 9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
 10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
 11. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
 12. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
 13. All recharge should be limited to shallow aquifer.
 14. No ground water shall be used during construction phase of the project.
 15. Any ground water dewatering should be properly managed and shall conform to the a approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.

16. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed in to municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problem from STP.
21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
6. Noise monitoring and prevention:
 1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
 2. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
 3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
7. Energy Conservation measures:
 1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
 2. Outdoor and common area lighting shall be LED.
 3. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
 4. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

5. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
6. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
8. Waste Management:
 1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
 2. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
 3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
 4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
 5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
 6. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
 7. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
 8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
 9. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
 10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
9. Green Cover:
 1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
 2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
 3. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted).

Area for green belt development shall be provided as per the details provided in the project document.

4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
10. Transport:
1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
 2. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
 3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
11. Human health issues :
1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
 2. For indoor air quality the ventilation provisions as per National Building Code of India.
 3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
 4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, 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.
 5. Occupational health surveillance of the workers shall be done on a regular basis.
 6. A First Aid Room shall be provided in the project both during construction and operations of the project.
12. Corporate Environment Responsibility:
1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
 2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined

system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

13. Miscellaneous:

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
9. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

13. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
15. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

7. Stone Khanda, Boulders, Ballast (Gitti) Mining at Gata No. 712 (Khand No.-02), Village- Chikahra, Mahoba, Smt. Husnara Bano, Area- 1.214 ha. File No. 6903/6394/Proposal No. SIA/UP/MIN/71657/2021

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 (U.P). Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

1. The environment clearance is sought for Stone Khanda, Boulders, Ballast (Gitti) Mining at Gata No. 712 (Khand No.-02), Village- Chikahra, Mahoba, U.P., (Leased Area- 1.214 ha.).
2. The terms of reference in the matter were issued by SEIAA, U.P. vide letter no. 283/Parya/SEIAA/6394/2021, dated 27/10/2021.
3. The public hearing was organized on 10/01/2022. Final EIA report submitted by the project proponent on 29/01/2022.
4. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/71657/2021		
2. File No. allotted by SEIAA, U.P	6903-6394		
3. Name of Proponent	Smt. Husnara Bano W/o- Shri Akil Ahamad		
4. Full correspondence address of proponent and mobile no.	R/o- Takiyapura District-Mahoba (U.P.)		
5. Name of Project	Building Stone, Khanda, Boulder, Ballast (Gitti) Mining Project		
6. Project location (Plot/Khasra/Gata No.)	Arazi No. 712 (Khand No. – 02),		
7. Name of River	NA		
8. Name of Village	Chhikahra		
9. Tehsil	Sadar		
10. District	Mahoba (U.P.)		
11. Name of Minor Mineral	Building Stone, Khanda, Boulder, Ballast (Gitti) Mining Project		
12. Sanctioned Lease Area (in Ha.)	2.024 Ha.		
13. Mineable Area (in Ha.)	1.664 Ha. (Safety Margin 0.36 Ha.)		
14. Zero level mRL	NA		
15. Max. & Min mrl within lease area	Maximum & Minimum mRL is 202 & 196 mRL respectively.		
16. Pillar Coordinates (Verified by DMO)	Pillar	Latitude(N)	Longitude(E)
	A	N25°22'00.552"	E79°52'40.522"
	B	N25°21'59.609"	E79°52'41.573"
	C	N25°22'00.224"	E79°52'41.793"

	D	N25°22'03.853"	E79°52'40.663"
	E	N25°22'04.700"	E79°52'41.426"
	F	N25°22'01.804"	E79°52'43.316"
	G	N25°21'53.921"	E79°52'43.608"
	H	N25°21'55.472"	E79°52'40.516"
17. Total Geological Reserves	4,34,080 m ³		
18. Sanction Quantity as per LOI	1,25,000 m ³ per year as per LOI		
19. Total Proposed Production	2,50,000 m ³ for two years		
20. Proposed Production/year	1,25,000 m ³ per year		
21. Sanctioned Period of Mine lease	10 Years as per LOI		
22. Total quantity issued for lease period of 10 years as per LOI	12,50,000 m ³ for lease period of 10 years		
23. Production of mine/day	500 m ³ /day		
24. Method of Mining	Open cast, Semi- Mechanized		
25. No. of working days	250		
26. Working hours/day	8 hours/day		
27. No. Of workers	23		
28. No. Of vehicles movement/day	16-17 Vehicles movement/day		
29. Type of Land	Building Stone(Khanda, Boulder, Ballast (Gitti) Mining Project		
30. Ultimate Depth of Mining	15.0 m for two years		
31. Nearest metalled road from site	NH-76 & NH-86 is about 6.39 km towards South-East direction from the project site.		
32. Water Requirement	PURPOSE		REQUIREMENT (KLD)
	Drinking water		0.33 KLD
	Dust suppression		3.0 KLD
	Plantation		3.0 KLD
	Others (if any)		-
	Total		6.33 KLD Approx.
33. 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		
34. Any litigation pending against the project or land in any court	No		
35. Details of 500 m Cluster Map & certificate issued by Mining Officer	Letter No. 8293/ MMC-30/2020-21 Date- 27/02/2021		
36. Details of Lease Area in approved DSR	Amendment Letter no:154/M.M.C-30-Khanij(2021-22) dated 12/05/2021 page no-02 SL.No-37.		
37. Proposed EMP cost	Rs 44,50,000/-		
38. Proposed Total Project cost	Rs. 1,50,00,000/-		
39. Length and breadth of Haul Road	250 m length and 6.0 m width		
40. 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. 07

The committee discussed the matter and recommended grant of environmental clearance for the project proposal along with general and specific conditions as annexed at Annexure-1 to these 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.
11. The project proponent should explore the possibilities of rainwater harvesting.

8. “Sand/Morrum Mining” at Gata No. 188 Kh, Village- Maraucha, Tehsil- Rudauli, Ayodhya, Shri Jai Shanker Tewari, Area 1.10 ha., File No. 6904/Proposal No. SIA/UP/MIN/253979/2022

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 environment clearance is sought for Ordinary Sand Mining at Gata No. 188 Kh, Village- Maraucha, Tehsil - Rudauli, District - Ayodhya, U.P., (Leased Area 1.10 ha).
2. Salient features of the project as submitted by the project proponent:

1. On-line proposal No.	SIA/UP/MIN/253979 /2022
2. File No. allotted by SEIAA, UP	6904
3. Name of Proponent	M/s Shubh Laabh Enterprises, Prop. Shri Jai Shanker Tewari S/o Shri Parashu Ram Tewari
4. Full correspondence address of proponent and mobile No.	R/o Nikat Balaji Hospital, Naveen Mandi 121 Raibareilly Road, District- Ayodhya (U.P.).
5. Name of Project	Proposed riverbed Ordinary Sand mining project from Ghaghra River.
6. Project location (Plot/Khasra/Gata No.)	Gata No. 188 Kh
7. Name of River	Ghaghra

8. Name of Village	Maraucha		
9. Tehsil	Rudauli		
10. District	Ayodhya		
11. Name of Minor Mineral	Ordinary Sand		
12. Sanctioned Lease Area (in Ha.)	1.10		
13. Max & Min mRL within lease area	Max- 97 mRL and Min- 95 mRL		
14. Pillar Coordinates (Verified by DMO)	Sanctioned Mining Lease Area		
	Pillar No.	Latitude	Longitude
	A	26°49'5.27"N	81°49'54.13"E
	B	26°49'7.28"N	81°49'56.63"E
	C	26°49'6.27"N	81°49'57.42"E
	D	26°49'5.59"N	81°50'0.06"E
E	26°49'2.92"N	81°49'57.23"E	
15. Total Geological Reserves	57,121 cum		
16. Total Mineable Reserves in LOI	27,500 cum in 6 months		
17. Total Proposed Production	27,500 cum in 6 months		
18. Proposed Production/year	27,500 cum in 6 months		
19. Sanctioned Period of Mine lease	6 months		
20. Production of mine/day	15.27		
21. Method of Mining	Open Cast Semi-mechanized Method		
22. No. of working days	180 days		
23. Working hours/day	8 hrs		
24. No. of workers	35		
25. No. of vehicles movement/day	2		
26. Type of Land	Government waste land		
27. Ultimate Depth of Mining	2.58		
28. Nearest metalled road from site	.8 km		
29. Water Requirement	PURPOSE		REQUIREMENT (KLD)
	Drinking		0.35
	Suppression of dust		2.64
	Plantation		2.20
	Others (if any)		0.35
	Total		5.54
30. Name of QCI Accredited Consultant with QCI No and period of validity.	Cognizance Research India Pvt. Ltd. 1922, validity= 03-02-2022		
31. Any litigation pending against the project or land in any court	No		
32. Details of 500 m Cluster Map & certificate issued by Mining Officer	Yes certified		
33. Details of Lease Area in approved DSR	Yes, given in the DSR		
34. Proposed CER cost	Rs 1,16,000 /-		
35. Proposed EMP cost	Rs 14,36,000/-		
36. Length and breadth of Haul Road	Length: 0.200 km, width: 6 m		
37. No. of Trees to be Planted	1100 plants		

- 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. 08

The committee discussed the matter and recommended grant of environmental clearance for the project proposal along with general and specific conditions as annexed at Annexure-3 to these minutes. The committee also stipulated the following specific conditions:

1. Proponent shall submit the notarized agreement/consent of competent authority/ landowner for haulage road from lease site to link road.
2. Proponent should use latest technology for water spraying (sprinklers) for mitigating dust at source points in lease area and haulage road during operation activity/vehicular movement.
3. 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.

9. Building Stone (Khanda, Gitti- Boulder) Mining at Gata No.-2451, Khand No.-02, at Village- Jarar, Tehsil- Naraini, District-Banda, U.P. Shri Shravan Kumar Singh, M/s Atharv Construction company. Area -1.21 ha., File No. 6304/5017/Proposal No. SIA/UP/MIN/63433/2019

The committee noted that the matter was earlier discussed in 486th SEIAA meeting dated 02/09/2021 and directed is as follows:

“SEIAA noted that SEAC has recommended to grant environmental clearance to the project. SEIAA gone through file and documents and found that baseline data submitted is of March to May 2019 whereas LOI was issued on 08.06.2019 and ToR was issued on 27.11.2019. Hence SEIAA opined to refer back the project to SEAC for review/comments.”

As per the direction of SEIAA, the matter was listed in 636th SEAC meeting dated 14/03/2022. The project proponent submitted their replies vide letter dated 08/03/2022 in compliance of query raised by SEIAA. The project proponent submitted is as follows:

Query	Reply
SEIAA gone through file and documents and found that baseline data submitted is of March to May 2019 whereas LOI was issued on 08.06.2019 and ToR was issued on 27.11.2019.	The baseline data used for the assessment of EIA report (March, 2019 to May, 2019) is of Secondary data of ("Building Stone (Khanda, Gitti & Boulder) Mine" Project at Gata No.-1073, (Khanda No.- 03), at Village- Jarar, Tehsil-Naraini, District-Banda, U.P., M/s Malhotra Brothers ,Leased Area -2.0 ha). Affidavit regarding data sharing submitted by the project proponent.

RESOLUTION AGAINST AGENDA NO. 09

In view of above, the committee went through the replies submitted by the project proponent and found it satisfactory. Hence, the committee recommended grant of environmental clearance for the project proposal along with environmental clearance conditions as earlier stipulated in 552nd SEAC meeting dated 23/07/2021.

10. Stone Mining at Gata No.-669, Khand No.-37, Village-Khailar, Tehsil -Sadar, District-Mahoba, U.P., Shri Suresh Kumar Saravagi, Area-2.023 ha., File No. 6409/Proposal No. SIA/UP/MIN/64563/2021

The committee noted that the matter was earlier discussed in 504th SEIAA meeting dated 22/10/2021 and directed is as follows:

“SEIAA noted that SEAC has recommended to grant ToR to the project. SEIAA gone through file and documents and found that Khand No.-37 of Gata No.-669 is not present in the DSR. Hence SEIAA opined to refer back the project to SEAC and the project proponent shall submit letter of competent authority for amendment to SEAC.”

As per the direction of SEIAA, the matter was listed in 636th SEAC meeting dated 14/03/2022. The project proponent submitted their replies vide letter dated 26/10/2021 in compliance of query raised by SEIAA. The project proponent submitted is as follows:

Query	Reply
SEIAA gone through file and documents and found that Khand No.-37 of Gata No.-669 is not present in the DSR. Hence SEIAA opined to refer back the project to SEAC and the project proponent shall submit letter of competent authority for amendment to SEAC.	The project proponent submit the amendment letter no. 640/30MMC/2021-22, dated 30/09/2021 issued by Senior Mining Officer, Jhansi through which they have informed that the khand no. 37, area-2.023 ha (5.00 acre) village-khailar, District-Mahoba has been included under gata no. 669, page no. 40 and serial no. 46 in DSR of District Jhansi.

RESOLUTION AGAINST AGENDA NO. 10

In view of above, the committee went through the replies submitted by the project proponent and found it satisfactory. Hence, the committee recommended to issue terms of reference for the preparation of EIA report as earlier prescribed in 568th SEAC meeting dated 08/09/2021. The committee also stipulated following additional TOR points:

1. To ensure proper monitoring, the project proponent/consultant should provide evidence in for of (A) Raw Data (B) Logbook of their site visit and activities carried out during monitoring (C) Real time photographs showing monitoring machine, public, lab person etc.
2. A verification report by at least 05 persons along with their mobile number and identity card.
3. The details of equipment used for baseline monitoring along with its photograph mentioning date, time and geo coordinates for preparation of EIA report should be clearly displayed to the people present during public hearing and the complete details related to monitoring period must be mentioned in the minutes of public hearing.

11. Warehousing Project beside Sohramu Police Stataion, Hasanganj, District- Unnao, U.P., M/s Sambandh Infrastructure Development LLP, File No. 6499/Proposal No. SIA/UP/MIS/223027/2021

The committee noted that the matter was earlier discussed in 548th SEIAA meeting dated 29/12/2021 and directed is as follows:

“SEIAA noted that in the SEAC minutes heading is mentioned as “Warehousing Project beside Sohramu Police Stataion, Hasanganj, Unnao.” whereas in details it is mentioned The environmental clearance is sought for “Warehouse Project” at Village-Madapur-Mustafabad & Baharmandpur, Dasna, Tehsil-Dhaulana, District-Hapur. Hence SEIAA opined to refer back the project to SEAC for review.”

As per the direction of SEIAA, the matter was listed in 636th SEAC meeting dated 14/03/2022. The committee went through the file and documents and observed that due to typographical error in 591st SEAC meeting dated 11/11/2021 the location of project is mentioned as “Warehouse Project at Village-Madapur-Mustafabad & Baharmandpur, Dasna, Tehsil-Dhaulana, District-Hapur, U.P., M/s Indo World Spaces” instead of “Warehousing Project beside Sohramu Police Stataion, Hasanganj, District- Unnao, U.P., M/s Sambandh Infrastructure Development LLP” in meeting of minutes (point no. 1) dated 11/11/2021.

Hence, the committee recommended to grant the environmental clearance (“Warehousing Project beside Sohramu Police Stataion, Hasanganj, District- Unnao, U.P., M/s Sambandh Infrastructure Development LLP”) for the project proposal along with environmental clearance conditions as earlier prescribed in 591st SEAC meeting dated 11/11/2021.

12. Institutional Building at Plot No. -01 & 02 ,Sector- 159, NOIDA, District- Gautam Buddh Nagar, U.P., M/s One97 Communications Ltd., File No. 6953/Proposal No. SIA/UP/MIS/ 258257/2021

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 environment clearance is sought for “Institutional Building” at Plot No.-01 & 02, Sector-159, Noida, District- Gautam Buddh Nagar, U.P., M/s One97 Communications Ltd.
2. Area details of the project:

Details	Proposed details (sq m)
Plot Area	40,000.00
Permissible Ground Coverage	14,000.00
Proposed Ground Coverage	12,933.929
Permissible F.A.R.	1,00,000.00 (@2.5 of plot area)
Proposed F.A.R.	69719.161
Permissible Services area	15,000.00 (15% of Perm. FAR)
Services area	11,113.80
Non F.A.R.	68,991.57
Built Up Area	1,49,824.542
Open Area	29,918.21
Green Area	14,959.11 (50% of open area) (80 nos are tree proposed to be planted)
Nos. floors	15th floor max.
Basements	02 (Upper and Lower)
Blocks	02 Towers and 1 MLCP (Tower-1 2B + 15th floors, Tower-2 2B+ 3rd floors, MLCP- 2B+ 1st Floors)
Required Parking	2000 ECS (FAR/50)
Proposed Parking	2113 ECS

3. Salient features of the project:

Details	Proposed details (sq m)
Total Area	40000.00 sqm
Green belt area	14,959.11 (50% of open area)
Population	13439
Nos. floors	15 th floor max.
Basements	02 (Upper and Lower)
Blocks	02 Towers and 1 MLCP
Required Parking	2000 ECS (FAR/50)
Proposed Parking	2113 ECS
Water Level	20mbgl
Rain water harvesting	09 nos
Fresh water	410kld
Source of fresh water	Ground water through Bore-wells
Waste water	500 kld
STP	600 kld
STP Technology	MBBR
Disposal of waste water	Waste water will be treated in to the sewage treatment plant having capacity of 600 KLD.

DG Set (Backup only)	3 nos. of 1500 kVA and 5 nos. of 1010 kVA
Power demand	5.904MW
Power Supply	UP Power Corporation Ltd
D G Set Proposed	3 nos. of 1500 kVA and 5 nos. of 1010 kVA
Annual rainfall	955 mm/annum
Solid waste generation	Total solid waste – 2943 Kg/day Management of Solid waste as per the solid waste management Rule, 2016 and organic waste converter shall be installed for biodegradable waste management.
Plantation	300 (50% Evergreen)

4. Water requirement details:

S.No.	Description	Population	Unit water consumption (liters)	Total water required (kld)	Water requirement for domestic use (kld)	Flushing / Recycled water use (kld)	Total wastewater (kld)
1.	Community Population	13439	45	604.7	403.2	201.6	483
2.	Visitors	1350	15	20.3	6.7	13.5	16
3.	DG Cooling	--	--			40 (recycled water)	
4.	Landscaping	14959	3 lit/sqm of landscape area			45 (recycled water)	
5.	AC Makeup water					150 (recycled water)	
	Total				410	450	499

5. Solid waste generation details:

S.No	Particular	Population	Waste generated kg/day
1.	Commercial Population (@ 0.2 kg/cap/day)	13439	2687
2.	Visitors (@ 0.15 kg/day)	1350	202
3.	Horticulture waste (@0.0036/sq/day)		54
	Total MSW		2943

6. The project proposal falls under category-8(a) of EIA Notification, 2006 (as amended).

RESOLUTION AGAINST AGENDA NO-12

The committee discussed the matter and recommended grant of environmental clearance on the proposal as above along with following standard environmental clearance conditions prescribed by MoEF&CC, GoI:

1. Project proponent shall identify 03 villages and adopt them for its development.
2. In compliance to Hon'ble Supreme Court order dated 13/01/2020 in IA no. 158128/2019 and 158129/2019 in Writ petition no. 13029/1985 (MC Mehta Vs. GOI and others) anti-smog guns shall be installed to reduce dust during excavation.
3. Statutory compliance:
 1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
 2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightning etc.

3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.
9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
4. Air quality monitoring and preservation:
 1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
 2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
 3. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25) covering upwind and downwind directions during the construction period.
 4. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.
 5. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
 6. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.
 7. Wet jet shall be provided for grinding and stone cutting.
 8. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
 9. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.

10. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
11. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low Sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
12. For indoor air quality the ventilation provisions as per National Building Code of India.
5. Water quality monitoring and preservation:
 1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.
 2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
 3. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
 4. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
 5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
 6. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
 7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
 8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
 9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
 10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
 11. The local bye-law provisions on rain water harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rain water harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
 12. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

13. All recharge should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed in to municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problem from STP.
21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.
6. Noise monitoring and prevention:
 1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
 2. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
 3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
7. Energy Conservation measures:
 1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
 2. Outdoor and common area lighting shall be LED.
 3. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be

incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

4. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
5. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.
6. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.
8. Waste Management:
 1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
 2. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
 3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
 4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
 5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
 6. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
 7. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.
 8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.
 9. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
 10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
9. Green Cover:
 1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
 2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of

native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

3. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
 4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
10. Transport:
1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
 2. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
 3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.
11. Human health issues :
1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
 2. For indoor air quality the ventilation provisions as per National Building Code of India.
 3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
 4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, 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.
 5. Occupational health surveillance of the workers shall be done on a regular basis.
 6. A First Aid Room shall be provided in the project both during construction and operations of the project.
12. Corporate Environment Responsibility:

1. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
 2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
 3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
 4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
13. Miscellaneous:
1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
 2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
 3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
 4. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
 5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
 6. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
 7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
 8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
 9. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
13. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
15. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

(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.

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

General and Specific Conditions for Soil Earth Mining Projects:-

General condition:

1. This environmental clearance does not create or verify any claim of applicant on the proposed site/activity.
2. Any mining activity shall be undertaken only after valid permission from Mining Department/District Administration and written agreement with land owner from where earth excavation is proposed.
3. No change in mining technology and scope of working shall be made without approval of Authority.
4. Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.
5. The Authority reserves the right to revoke the clearance if conditions stipulated are not implemented. The Authority will also be entitled to impose additional environmental conditions or modify the existing ones, if necessary.
6. In case of any deviation or alteration in the project proposed from those submitted to this Authority for clearance, a fresh reference should be made to the Authority to assess the adequacy of the condition(s) imposed and to add additional environmental protection Measures required, if any.
7. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

Specific Conditions:

1. Environment management should be in accordance with the present environment status of the project.
2. The Environmental clearance will be co-terminus with the agreement/lease.
3. Approach kaccha road should be made motorable and maintained periodically.
4. Transportation of soil should be undertaken in covered containers.
5. Rehabilitation plan with planting of trees to be submitted along with the closure plan.
6. Land to be leveled and handed over to the owners after completion of excavation work.
7. A valid NOC from State Pollution Control Board shall be obtained for the Brick kiln prior to operation as per law and all guidelines must be followed, if applicable.
8. The mining operations shall be strictly limited to the proposed mining sites and proposed purpose.
9. Top soil should be adequately preserved and should be used for landscaping.
10. Excavated soil should be properly stored in a manner not to increase surrounding air pollution level.
11. Water sprinkling should be exercised during excavation and storage of soil for suppression of fugitive dust.
12. Excavated area should be properly reclaimed and ensured that no open bore hole is left.
13. Safety measures for the people working at the site shall be duly taken care of as per law.
14. The excavation work shall be done in day time only.
15. The project boundary shall be properly covered to restrict dust dispersion.
16. Precautionary measures during soil excavation for conservation and protection of rare and endangered flora and fauna found in the study area.

17. Noise level shall be maintained as per standards for both day and night.
18. The route map for soil transportation from excavation plots to work site should be firmed up and necessary permissions shall be sought from District Administration.
19. Vehicles hired for the transportation should be in good condition and should have Pollution Check Certificate and should conform to applicable air and noise emission standards.
20. Personnel exposure monitoring for respirable mineral dust shall be carried out for the workers and records maintained including health records of the workers. Awareness program for workers on impact of mining on their health and precautionary measures like use of personal protective equipments etc. shall be carried out periodically. First aid facilities and adequate sanitary facility in the form of temporary toilets/septic tanks.
21. Solid waste material vizgutkha rappers, plastic bags, glasses etc. to be generated during project activity will be separately stored in bins and managed as per Solid Waste Management Rules.
22. Project proponent should maintain daily register for information of (a) collection of soil/clay, (b) manpower & (c) transportation purpose.
23. Soil mining shall strictly be undertaken as per rules and regulations/permissions obtained from District Administration/Mining Department
24. Corporate Environmental Responsibility (CER) shall be prepared by the project proponent and the details of the various heads of expenditure to be submitted as per the guidelines provided in the recent CER notification No. 22-65/2017-IA.III dated 01/05/2018. A copy of resolution as above shall be submitted to the authority along with list of beneficiaries with their mobile nos./address.
25. The borrowing/excavation activity shall be restricted to a maximum depth of 2 m. below general ground level at the site.
26. The borrowing/excavation activity shall be restricted to 2 m. above the ground water table at the site.
27. The borrowing/excavation activity shall not alter the natural drainage pattern of the area.
28. The borrowed/excavated pit shall be restored by the project proponent for useful purpose(s).
29. Appropriate fencing all around the borrowed/excavated pit shall be made to prevent any mishap.
30. Measures shall be taken to prevent dust emission by covering of borrowed/excavated earth during transportation.
31. Safeguards shall be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing/excavation of earth.
32. Workers/labourers shall be provided with facilities for drinking water and sanitation.
33. A berm shall be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.
34. A minimum distance of 15 m from any civil structure shall be kept from the periphery of any excavation area.

General and Specific Conditions for Sand/Morum Mining Proposals

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 law.
3. Any change in mining area, khasra numbers, entailing capacity addition with change in process and or mining technology, modernization and scope of working shall again require prior Environmental Clearance as per the provisions of EIA Notification, 2006 (as amended).
4. Precise mining area will be jointly demarcated at site by project proponent and officials of Mining/Revenue department prior to starting of mining operations. Such site plan, duly verified by competent authority along-with copy of the Environmental Clearance letter will be displayed on a hoarding/board at the site. A copy of site plan will also be submitted to SEIAA within a period of 02 months.
5. Mining and loading shall be done only within day hours' time.
6. No mining shall be carried out in the safety zone of any bridge and/or embankment.
7. It shall be ensured that standards related to ambient air quality/effluent as prescribed by the Ministry of Environment & Forests are strictly complied with. Water sprinklers and other dust control majors should be applied to take-care of dust generated during mining operation. Sprinkling of water on haul roads to control dust will be ensured by the project proponent.
8. All necessary statutory clearances shall be obtained before start of mining operations. If this condition is violated, the clearance shall be automatically deemed to have been cancelled.
9. Parking of vehicles should not be made on public places.
10. No tree-felling will be done in the leased area, except only with the permission of Forest Department.
11. No wildlife habitat will be infringed.
12. It shall be ensured that excavation of minor mineral does not disturb or change the underlying soil characteristics of the river bed /basin, where mining is carried out.
13. It shall be ensured that mining operation of Sand/Moram will not in any way disturb the, velocity and flow pattern of the river water significantly.
14. It shall be ensured that there is no fauna dependant on the river bed or areas close to mining for its nesting. A report on the same, vetted by the competent authority shall be submitted to the RO, PCB and SEIAA within 02 months.
15. Primary survey of flora and fauna shall be carried out and data shall be submitted to the RO, PCB and SEIAA within six months.
16. Hydro-geological study shall be carried out by a reputed organization/institute within six months and establish that mining in the said area will not adversely affect the ground water regime. The report shall be submitted to the RO, PCB and SEIAA within six months. In case adverse impact is observed /anticipated, mining shall not be carried out.
17. Adequate protection against dust and other environmental pollution due to mining shall be made so that the habitations (if any) close by the lease area are not adversely affected. The status of implementation of measures taken shall be reported to the RO, UPPCB and SEIAA and this activity should be completed before the start of sand mining.
18. Need-based assessment for the nearby villages shall be conducted to study economic measures which can help in improving the quality of life of economically weaker section of society. Income generating projects/tools such as development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such program me. The project proponent shall provide separate budget for community development activities and income generating programmes.
19. Green cover development shall be carried out following CPCB guidelines including selection of plant species and in consultation with the local DFO/Horticulture Officer.

20. Separate stock piles shall be maintained for excavated top soil, if any, and the top soil should be utilized for green cover/tree plantation.
21. Dispensary facilities for first-aid shall be provided at site.
22. An Environmental Audit should be annually carried out during the operational phase and submitted to the SEIAA.
23. The District Mining Officer should quarterly monitor compliance of the stipulated conditions. The project proponent will extend full cooperation to the District Mining Officer by furnishing the requisite data/information/monitoring reports. In case of any violations of stipulated conditions the District Mining Officer will report to SEIAA.
24. The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard & soft copies) to the SEIAA, the District Officer and the respective Regional Office of the State Pollution Control Board by 1st June and 1st December every year.
25. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParisad/ Municipal Corporation and Urban Local Body.
26. Transportation of materials shall be done by covering the trucks / tractors with tarpaulin or other suitable mechanism to avoid fugitive emissions and spillage of mineral/dust.
27. Waste water, from temporary habitation campus be properly collected & treated before discharging into water bodies the treated effluent should conform to the standards prescribed by MoEF/CPCB.
28. Measures shall be taken for control of noise level to the limits prescribed by C.P.C.B.
29. Special Measures shall be adopted to protect the nearby settlements from the impacts of mining activities. Maintenance of Village roads through which transportation of minor minerals is to be undertaken, shall be carried-out by the project proponent regularly at his own expenses.
30. Measure for prevention & control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion, if any, shall be carried-out with geo textile matting or other suitable material.
31. Under corporate social responsibility a sum of 5% of the total project cost or total income whichever is higher is to be earmarked for total lease period. Its budget is to be separately maintained. CER component shall be prepared based on need of local habitant. Income generating measures which can help in upliftment of poor section of society, consistent with the traditional skills of the people shall be identified. The programme can include activities such as development of fodder farm, fruit bearing orchards, free distribution of smokeless Chula etc.
32. Possibility for adopting nearest three villages shall be explored and details of civic amenities such as roads, drinking water etc proposed to be provided at the project proponent's expenses shall be submitted within 02 months from the date of issuance of Environment Clearance.
33. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Integrated Regional Office, MoEF&CC, GoI, Lucknow, SEIAA, U.P and UPPCB.
34. Action plan with respect to suggestion/improvement and recommendations made and agreed during Public Hearing shall be submitted to the District mines Officer, concern Regional Officer of UPPCB and SEIAA within 02 months.
35. Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, if applicable to this project.
36. The proponent shall observe every 15 day for nesting of any turtle in the area. Based on the observations so made, if turtle nesting is observed, necessary safeguard measures shall be taken in consultation with the State Wildlife Department. For the purpose, awareness shall be created amongst the workers about the nesting sites so that such sites, if any, are identified by the workers during operations of the mine for taking required safeguard measures. In this regards the safety notified zone should be left so that the habitat/nesting area is undisturbed.
37. The project proponent shall undertake adequate safeguard measures during extraction of river bed material and ensure that due to this activity the hydro geological regime of the surrounding area shall not be affected.

38. The project proponent shall obtain necessary prior permission of the competent Authorities for withdrawal of requisite quantity of water (surface water and groundwater), required for the project.
39. Appropriate mitigative measures shall be taken to prevent pollution of the river in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease in the river from the vehicles used for transportation.
40. Vehicular emissions shall be kept under control and regularly monitored. The vehicles carrying the mineral shall not be overloaded.
41. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. (MoEF circular Dated : 22-09-2008 regarding stipulation of condition to improve the living conditions of construction labour at site).
42. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
43. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
44. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Integrated Regional Office, MoEF&CC, GoI, Lucknow by e-mail.
45. The green cover development/tree plantation is to be done in an area equivalent to 20% of the total leased area either on river bank or along road side (Avenue Plantation).
46. Debris from the river bed will be collected and stored at secured place and may be utilized for strengthen the embankment.
47. Safety measures to be taken for the safety of the people working at the mine lease area should be given, which would also include measure for treatment of bite of poisonous reptile/insect like snake.
48. Periodical and Annual medical checkup of workers as per Mines Act and they should be covered under ESI as per rule.

Specific Conditions:

1. The Environmental clearance will be co-terminus with the mining lease period.
2. At the time of operation, project proponent will comply with all the guidelines issued by Government of India/State Govt./District Administration related to Covid-19.
3. Environment management in according to environmental status and impact of the project.
4. During the school opening and closing time transportation of minerals will be restricted.
5. Selection of plants for green belt should be on the basis of pollution removal index. Project proponent should ensure survival of tree saplings. Mortality should be replaced from time to time.
6. No mining activity should be carried out in-stream channel as per SSMMG, 2016.
7. Pakkamotorable haul road to be maintained by the project proponent.
8. A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
9. Permission from the competent authority regarding evacuation route should be taken.
10. One month monitoring report of the area for air quality, water quality, Noise level. Besides flora & fauna should be examined twice a week and be submitted within 45 days for a record.
11. Provision for cylinder to workers should be made for cooking.

12. The capacity of trucks/tractor for loading purpose will be in tonnes as per Transport Department applicable norms and standard fixed by the Government.
13. Approach road kaccha is to be made motarable and tree saplings to be planted on both sides of the road. Width of the haul road shall be more than 6 meter.
14. Indigenous plants should be planted according to CPCB guidelines and in consultation with local Divisional Forest Officer.
15. The project proponent shall in 2 years conduct detailed replenishment study duly authenticated by a QCI-NABET accredited consultant, and the District Mines Officer.
16. Provision for two toilets and hand pumps should be made at mining site.
17. Drinking water for workers would be provided by tankers.
18. Mining should be done by Bar scalping methods extraction (typically 0.3 -0.6 m or 1 - 2 ft) as per sustainable sand mining management guidelines 2016.
19. A buffer/safe zone shall be maintained from the habitation as per mining guidelines.
20. Corporate Environmental Responsibility (CER) plan shall be prepared by the project proponent and the details of the various heads of expenditure to be submitted as per the guidelines provided in the recent CER notification No. 22-65/2017-IA.III dated 01/05/2018.
21. Health/Insurance card, Medical claim, regular health check-up camps, facilities shall be provided to the regular/temporary/Contractual or any base workers. Copy of receipt shall be produced to the Directorate of Environment along with the compliance report.
22. Measure for conservation of water through rainwater harvesting and cleaning and maintenance of natural surface water bodies of the nearby areas may be considered as one of the activity in CER.
23. The excavated mining material should be carried and transported in such a way that no obstruction to the free flow of water takes place. Suitable measure should be taken and details to be provided to concern Department.
24. Submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity / production levels shall be decreased / stopped accordingly till the replenishment is completed.
25. The project proponent shall ensure that if the project area falls within the eco-sensitive zone of National park/ Sanctuary prior permission of statutory committee of National board for wild life under the provision of Wildlife (Protection) Act, 1972 shall be obtained before commencement of work.
26. If in future this lease area becomes part of cluster of equal to or more than 05 ha. then additional conditions based on the EIA shall be imposed. The lease holder shall mandatorily follow cluster conditions otherwise it will amount to violation of E.C. conditions. If the certificate related to cluster provided by the competent authority is found false or incorrect then punitive actions as per law shall be initiated against the authority issuing the cluster certificate.
27. Project falling within 10 KM area of Wild Life Sanctuary is to obtain a clearance from National Board Wild Life (NBWL) even if the eco-sensitive zone is not earmarked.
28. To avoid ponding effect and adverse environmental conditions for sand mining in area, progressive mining should be done as per sustainable sand mining management guidelines 2016.
29. 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 area is less than 05 ha, but factually the distance is less than 500 mt and the mine is located in cluster of area equal or more than 05 ha, the E.C issued will stand revoked.
30. The project proponent shall in 2 years conduct detailed replenishment study duly authenticated by a QCI-NABET accredited consultant, and the District Mines Officer which shall form the basis for midterm review of conditions of Environmental Clearance.
31. The mining work will be open-cast and manual/semi mechanized (subject to order of Hon'ble NGT/Hon'ble Courts (s)). Heavy machine such as excavator, scooper etc. should not be employed for mining purpose. No drilling/blasting should be involved at any stage.

32. It shall be ensured that there shall be no mining of any type within 03 m or 10% of the width which-ever is less, shall be left on both the banks of precise area to control and avoid erosion of river bank. The mining is confined to extraction of sand/moram from the river bank only.
33. The project proponent shall undertake adequate safeguard measures during extraction of river bank material and ensure that due to this activity the hydro-geological regime of the surrounding area shall not be affected.
34. The project proponent shall adhere to mining in conformity to plan submitted for the mine lease conditions and the Rules prescribed in this regard clearly showing the no work zone in the mine lease i.e. the distance from the bank of river to be left un-worked (Non mining area), distance from the bridges etc. It shall be ensured that no mining shall be carried out during the monsoon season.
35. The project proponent shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
36. The project proponent will provide personal protective equipment (PPE) as required, also provide adequate training and information on safety and health aspects. Periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.
37. The critical parameters such as PM10, PM2.5, SO2 and NOx in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water if any shall also be monitored [(TDS, DO, pH, Fecal Coliform and Total Suspended Solids (TSS)].
38. Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads.
39. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
40. The extended mining scheme will be submitted by the proponent before expiry of present mining plan.
41. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO2 and NOx. 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.
42. Common road for transportation of mineral is to be maintained collectively. Total cost will be shared/worked out on the basis of lease area among users.
43. Proponent will provide adequate sanitary facility in the form of mobile toilets to the labours engaged for the project work.
44. Solid waste material viz., gutkha pouches, plastic bags, glasses etc. to be generated during project activity will be separately storage in bins and managed as per Solid Waste Management rules.
45. Natural/customary paths used by villagers should not be obstructed at any time by the activities proposed under the project.
46. Digital processing of the entire lease area in the district using remote sensing technique should be done regularly once in three years for monitoring the change of river course by Directorate of Geology and Mining, Govt. of Uttar Pradesh. The record of such study to be maintained and report be submitted to Integrated Regional Office, MoEF&CC, GoI, Lucknow, SEIAA, U.P. and UPPCB.
47. The project authorities 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 Pollution Control Board and also at web site of the SEIAA at <http://www.seiaaup.in> and a copy of the same shall be forwarded to the Integrated Regional Office, MoEF&CC, GoI, Lucknow, CPCB, State PCB.

48. The MoEF&CC/SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
49. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
50. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.
51. Waste water from potable use be collected and reused for sprinkling.
52. A width of not less than 50 meter or 10% width of river can be restricted for mining activities from river bank. A condition can be imposed that mining will be done from river activities from river bank.