

Item No 195.19: Application for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for mining of minor minerals from an agricultural land in the Village Khasi Kalan, Tehsil Ludhiana East, District Ludhiana, Punjab submitted by M/s Mahadev Enclave Private Limited. (Proposal No. SIA/PB/MIN/154139/2020)

SEAC observed as under:

M/s Mahadev Enclave Private Limited has applied for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) from an agricultural land (off-channel site) in the revenue estate of Village Khasi Kalan, Tehsil Ludhiana East, District Ludhiana, Punjab on 25.05.2020. The project is covered under S.No. 1(a) of the Schedule appended to the said notification.

Further, on the basis of scrutiny of application, EDS were raised on 14.06.2020 and 18.08.2020, by SEIAA to which project proponent replied on 20.06.2020 and 22.10.2020 respectively. The project proponent submitted all the requisite documents as per the check list of mining case along with Form-02. The project proponent submitted a hard copy of the same, which was taken on record.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s MAHADEV ENCLAVE PRIVATE LIMITED B-37 Ayodhaya Marg, Hanuman Nagar, Jaipur, Rajasthan +91 9780625432 avnit.kaushal@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	Eco Laboratories & Consultants Pvt. Ltd. 9814003103, 0172461622 consulteco@yahoo.com

1.0 Deliberations during the 195th meeting of SEAC held on 24.10.2020.

The project proponent submitted all the requisite documents as per the check list of mining case along with Form-02. The project proponent submitted a hard copy of the same, which was taken on record.

The case was considered by SEAC in its 195th meeting held on 24.10.2020. The meeting was attended by the following through Video Conference on behalf of the project proponent:

- (i) Sh. Deepak Kumar, Authorised signatory, on behalf of the project proponent.
- (ii) Ms. Simranjit Kaur, M/s Eco Laboratories & Consultant Pvt. Ltd., Mohali.

SEAC allowed the project proponent to present the salient features of the project and the Environment Consultant of the promoter company presented the same as under:

S. No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIN/154139/2020
2.	Project Name & Location	Sand Mining Project Village: Khasi Kalan, Tehsil: Ludhiana East, District: Ludhiana, Punjab by M/s Mahadev Enclave Private Limited
3.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	1(a) Mining of Minor Minerals
4.	Details of Mining Lease	
i)	Mineral (s) to be mined	Sand
ii)	Capacity of Mine	41,406 TPA
iii)	Mining Lease Area	3.85 Ha
iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Reference No: Memo No. 780/M/G Date of Issue: 09/07/2019 Validity of LOI: 3 years Mining Lease Area: 3.85 Ha.
5.	Hadbast No.	183
6.	Land Khasra No. & their consent details	
	Sr. No.	Type
	1	Govt. Land
	2	Private Land
	Khasra No.	
	18//24/2, 25/2, 19//21/2, 29//1, 10, 11, 12, 19, 20, 30//4, 5, 6, 15, 16	
7.	Latitude & Longitude	
	Pillar No.	Latitude
	1	30°56'53.62"N
	2	30°56'53.64"N
	3	30°56'48.68"N
	4	30°56'48.63"N
	5	30°56'45.66"N
	6	30°56'45.44"N
	7	30°56'46.78"N
	8	30°56'48.71"N
		Longitude
		75°57'0.33"E
		75°57'5.39"E
		75°57'5.40"E
		75°57'7.89"E
		75°57'7.88"E
		75°57'2.82"E
		75°57'0.59"E
		75°57'0.34"E

	<table border="1"> <tr> <td>9</td> <td>30°56'50.57"N</td> <td>75°57'0.85"E</td> </tr> <tr> <td>10</td> <td>30°56'52.51"N</td> <td>75°56'59.70"E</td> </tr> <tr> <td>11</td> <td>30°56'53.26"N</td> <td>75°57'0.33"E</td> </tr> </table>	9	30°56'50.57"N	75°57'0.85"E	10	30°56'52.51"N	75°56'59.70"E	11	30°56'53.26"N	75°57'0.33"E																												
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9.	Does the project involve diversion of forest land? If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof	No																																				
10.	Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary? If yes, Status of NOC. If No, If No, submit documentary proof	No.																																				
11.	Land requirement for the project	<p>Prior to the project proposal</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Ownership pattern</th> <th>Area in Ha.</th> </tr> </thead> <tbody> <tr> <td>i.</td> <td>Forest Land</td> <td>-</td> </tr> <tr> <td>ii.</td> <td>Private land</td> <td>3.85</td> </tr> <tr> <td>iii.</td> <td>Government land</td> <td>-</td> </tr> <tr> <td>iv.</td> <td>Revenue land</td> <td>-</td> </tr> <tr> <td>v.</td> <td>Other land</td> <td>-</td> </tr> </tbody> </table> <p>Present Land use Break Up</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Land use</th> <th>Area in Ha.</th> </tr> </thead> <tbody> <tr> <td>i.</td> <td>Agriculture Area</td> <td></td> </tr> <tr> <td>ii.</td> <td>Waste/Barren Area</td> <td></td> </tr> <tr> <td>iii.</td> <td>Grazing/community Area</td> <td></td> </tr> <tr> <td>iv.</td> <td>Surface water Bodies</td> <td>-</td> </tr> <tr> <td>v.</td> <td>Other(Specify)</td> <td>3.85</td> </tr> </tbody> </table>	S.No.	Ownership pattern	Area in Ha.	i.	Forest Land	-	ii.	Private land	3.85	iii.	Government land	-	iv.	Revenue land	-	v.	Other land	-	S.No.	Land use	Area in Ha.	i.	Agriculture Area		ii.	Waste/Barren Area		iii.	Grazing/community Area		iv.	Surface water Bodies	-	v.	Other(Specify)	3.85
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12.	Cost of the project	Rs. 35.92 Lakhs																																				
13.	Environmental Clearance. Fee details	Rs. 7,700/- through NEFT vide UTR No. 5038780636 dated 12.05.2020																																				
14.	Details of Final District Survey Report	Approved by:- Deputy Commissioner, Ludhiana Mining Reference no. 4949 dated 20.10.2020																																				
15.	Details of visit report of Sub Divisional Level Committee	Submitted																																				

16.	Details of Mining Plan	Approved by:- State Geologist (Department of Mines and Geology, Punjab) Approval Letter No.: Glg/Pb/M.P./2020/ Khasi Kalan/157 Date of Approval: 14.02.2020 Approved Mining Lease Area: 3.85 Ha. Approved Mining Quantity: 41,406 TPA Depth of Mining (m): 3 m		
17.	Demarcation report of mining site	Date of demarcation report: 13.11.2019 No.s of Burjis made: 11 Nos. Photographs submitted: Yes Signed by : 1) Mr. Harjit Pal Singh (S.D.O-Mining) 2) Mr. Manish Batra (J.E. -Mining) 3) Mr. Gurvinder Singh (DGPS Operator) 4) Sh. Tushar Sharma (Mahadev Enclave)		
18.	Workers (when fully operational)	30 Persons.		
19.	Water Requirements & source	Domestic: 2.10 KLD Dust Suppression: 1.2 KLD Total: 3.30 KLD Ground water/Others: A water storage tank of capacity 2 KLD shall be provided.		
20.	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water: 1.7 KLD (80% of water requirement) ii) Treatment Method: Septic Tank iii) Mode of Disposal: Overflow will be used for green area.		
21.	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.		
22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any): Nil No. of plant to be planted: 180 Nos. Funds Allocated: Rs. 0.80 lacs		
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	Mr. Avnit Kaushal will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.		
	Sr. No.	Description	Capital cost (lacs)	Recurring Cost (in Rs. Lakh/annum)

	1	Monitoring of Air, Water, Soil, etc. twice a year.	-	1.0
	2	Year Pollution Control Management of Haulage Roads & mine road including Sprinkling. Tractor trolley with sprinkler	-	1.0
	3	Green Belt Development	1.95	0.65
	4	Provision of Septic Tank	1.0	0.35
	5	Occupational Health Measures Provision of PPE, First Aid and Other Miscellaneous expenditure.	0.50	0.25
		TOTAL	3.45 Lakhs	3.35 Lakhs
24.	<p>CER activities along with budgetary break up and responsibility to implement Mr. Kartik Rathi (Director) of M/s. Mahadev Enclave Private Limited will be responsible for implementation of Corporate Environmental Responsibility (CER). As the project cost is Rs. 35.92 Lakhs; thus; Rs. 0.72 Lakhs have been reserved for CER activities as per Office Memorandum of CER dated 01.05.2018. It was proposed to spent on the followings: -</p> <p>1. Rs. 0.72 Lakhs will be spent for providing drinking water facility, toilets, furniture and maintenance of school building of Nankana Sahib Public Senior Secondary School Khasi Kalan.</p>			

SEAC asked the project proponent and his Environmental Consultant to clarify the following observations to which he replied as under: -

Sr. No.	Observations	Reply submitted by the project proponent and his Environmental Consultant
1.	The project proponent is required to earmark two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site. Also, monthly monitoring of the water level in the wells is required to be carried out and reported to District Mining Officer on monthly basis.	The project proponent agreed to the same.
2.	The project proponent is required to plant trees of natives species having plant height more than 3 ft along with tree guard.	The project proponent agreed to the same.
3.	The project proponent is required to submit an undertaking to the effect that the mining shall be carried out as per the approved Mining Plan and comply with the terms and conditions of Department of Mines &	The project proponent agreed to the same.

	Geology, Govt. of Punjab as issued from time to time.	
4.	As per the condition no. 21 mentioned in the standard Environmental Conditions for sand mining as given in the Sustainable Sand Mining Management Guidelines, 2016, mining should begin only after pucca pillar, marking the boundary of lease area, is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee and a condition to the same shall be imposed in the Environmental Clearance issued to the project proponent.	The project proponent agreed to the same.
5.	The project proponent could not justify as to why the semi-mechanized mining is better for environment as compared to manual mining. The Committee decided that the project proponent shall carryout mining only by manual method.	The project proponent agreed to the same.

SEAC was satisfied from the presentation and reply given to the observation. SEAC took a copy of presentation along with reply on record.

After deliberations, SEAC decided to award silver grading to the project and forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance for mining of minor minerals (Sand) on Agricultural Land located in the revenue estate of village Khasi Kalan, Tehsil Ludhiana East, District Ludhiana, Punjab submitted by M/s Mahadev Enclave Pvt. Ltd. as per Annexure-I along with the following additional conditions:

1. The project proponent shall carry out mining only by the manual method.
2. The project proponent is required to earmark two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site. Also, monthly monitoring of the water level in the wells is required to be carried out and reported to District Mining Officer on monthly basis.
3. The project proponent shall begin mining only after pucca pillar marking, the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.
4. The proponent shall plant 390 number of plants of native species of not less than 3 ft in size at the identified location and protect the same with tree guards. The

proponent shall make adequate provision of funds and ensure maintenance of the plants for a further period of three years.

5. The project proponent shall construct rain water harvesting pits along with desilting chambers at the identified location of the village Khasi Kalan, Tehsil Ludhiana East, District Ludhiana, Punjab. The project proponent shall follow the CGWA guidelines for constructing the rainwater recharging pits.
6. 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. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least minimum amount of Rs. 0.72 Lakhs towards following activities:

Sr. No.	Particulars	Amount (in Rs)
1	Drinking water facility, toilets, furniture and maintenance of school building of Nankana Sahib Public Senior Secondary School Khasi Kalan.	Rs. 0.72 Lakhs
Total		Rs. 0.72 Lakhs

Item No195.20: Application for obtaining environmental clearance under EIA notification dated 14.09.2006 for mining of minor minerals On Agricultural Land in the village Behak Gujran, Tehsil Zira District- Ferozepur, Punjab submitted by Prime Vision Industries Private Limited. (Proposal No. SIA/PB/MIN/178189/2020)

SEAC observed as under:

M/s Prime Vision Industries Pvt Ltd has applied for obtaining environmental clearance under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) **On Agricultural Land in the village Behak Gujran, Tehsil Zira District- Ferozepur, Punjab** on 09.10.2020. The project is covered under category 1 (a) of the Schedule appended to the said notification.

Further, on the basis of scrutiny of application, EDS were raised on 16.04.2020 by SEIAA to which project proponent replied on 16.06.2020, respectively. The project proponent submitted all the requisite documents as per the check list of mining case along with Form-02. The project proponent submitted a hard copy of the same, which was taken on record.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Prime Vision Industries Pvt Ltd 312, Vishal Chamber P-1, Sector-18, Noida, Uttar Pradesh. 9646210786
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		Primevision.pb.ec@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	P and M solution 9910037943 Manasvyas23@gmail.com

1.0 Deliberations during the 195th meeting of SEAC held on 24.10.2020.

The project proponent submitted all the requisite documents as per the check list of mining case along with Form-02. The project proponent submitted a hard copy of the same, which was taken on record.

The case was considered by SEAC in its 195th meeting held on 24.10.2020. The meeting was attended by the following through Video Conference on behalf of the project proponent:

- (i) Sh. Harkesh Singh, Authorised signatory, on behalf of the project proponent.
- (ii) Sh. Subhash Kumar, EIA Coordinator and Sh. Manas Vyas, FAE, M/s P & M Solutions, Noida, Environment Consultant of the promoter company.

SEAC allowed the project proponent to present the salient features of the project and the Environment Consultant of the promoter company presented the same as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIN/178189/2020
2.	Project Name & Location	BEHAK GUJJRAN SAND MINING PROJECT AT HADBAST NO-144, VILLAGE-BEHAK GUJJRAN, TEHSIL- ZIRA, DISTRICT-FIROZPUR, PUNJAB
3	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006.	SI. No. 1(a)
4	Details of Mining Lease	
i)	Mineral (s) to be mined	Sand
ii)	Capacity of Mine	The Proposed production Capacity 34676.29TPA.
iii)	Mining Lease Area	Total area is 4.39 Ha
iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Reference No:1709-10 Date of Issue:09.07.2019 Validity of LOI: Three years
5	HadBast No.	144

6	Land Khasra No. & their consent details			
	Sr No	Type	Khasra No	
	1	Govt Land		
	2	Private Land	[81//18 (8-0), 25/2(6-0), 12/2(3-0), 25/1/2(1-9), 24/2(2-0)], [[69//19(8-0), 20(8-0),21(8-0),22(8-0), 14(5-0), 18 (8-0), 13/2(7-2), 15/1(2-0),17/2(3-4)][71//23/2(2-4),24(6-16)	
7.	Latitude & Longitude			
	S.No.	Corner	Latitude	Longitude
	1	A	31° 2'11.80"N	74° 57'47.63"E
	2	B	31° 2'13.74"N	74° 57'47.58"E
	3	C	31° 2'13.77"N	74° 57'50.65"E
	4	D	31° 2'11.82"N	74° 57'50.59"E
	5	E	31° 2'11.90"N	74° 57'52.76"E
	6	F	31° 2'15.77"N	74° 57'52.86"E
	7	G	31° 2'15.74"N	74° 57'57.96"E
	8	H	31° 2'17.43"N	74° 57'58.01"E
	9	I	31° 2'17.42"N	74° 58'0.31"E
	10	J	31° 2'17.63"N	74° 58'0.31"E
	11	K	31° 2'17.68"N	74° 58'4.14"E
	12	L	31° 2'17.11"N	74° 58'4.12"E
	13	M	31° 2'17.05"N	74° 58'1.77"E
	14	N	31° 2'15.67"N	74° 58'1.75"E
	15	O	31° 2'15.65"N	74° 58'1.14"E
	16	P	31° 2'13.78"N	74° 58'1.12"E
	17	Q	31° 2'13.75"N	74° 57'57.91"E
	18	R	31° 2'11.87"N	74° 57'57.85"E
	19	S	31° 2'5.85"N	74° 57'46.70"E
	20	T	31° 2'7.80"N	74° 57'46.70"E
	21	U	31° 2'7.78"N	74° 57'47.70"E

	22	V	31° 2'5.85"N	74° 57'47.71"E	
	23	W	31° 2'3.85"N	74° 57'47.75"E	
	24	X	31° 2'3.90"N	74° 57'47.83"E	
	25	Y	31° 2'5.90"N	74° 57'50.55"E	
	26	Z	31° 2'3.89"N	74° 57'51.75"E	
	27	1	31° 2'3.91"N	74° 57'50.22"E	
	28	2	31° 2'1.89"N	74° 57'50.26"E	
	29	3	31° 2'1.91"N	74° 57'51.85"E	
8	Whether the project attracts the General Condition.		No		
9.	Does the project involves diversion of forest land.If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof		No		
10	Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary? If yes, Status of NOC. If No, If No, submit documentary proof		No		
11.	Land requirement for the project		Prior to the project proposal		
			Sr No.	Ownership pattern	Area in Ha
			i)	Forest Land	Nil
			ii)	Private land	4.39
			iii)	Government land	Nil
			iv)	Revenue land	Nil
			v)	Other land	Nil
			vi)	Total land	4.39
	Present Land use Break Up				
	Sr No.	Land use	Area in Ha		

		i)	Agriculture Area	4.39
		ii)	Waste/Barren Area	
		iii)	Settlement	
		iv)	Surface water Bodies	
		v)	Other(Specify)	Nil
12.	Cost of the project	Overall cost of the project is about Rs. 1,23,08,900/-. The capital investment in the project is estimated to be Rs 30,02,966/-.		
13.	Environmental Clearance. Fee details	Rs 8780/- Vide NEFT No 608227120 dated 20/07/20		
14.	Details of Final District Survey Report	Approved by :- District Commissioner .Ferozpur Reference No:728 Date of Issue: 8/06/2020		
15	Details of visit report of Sub Divisional Level Committee	Date of visit: - 07.09.17 Recommendation: Suitable for mining		
16	Details of Mining Plan	Approved by :- State Geologists Punjab Approval Letter No: Glg/Pb/M.P./2020/Behak Gujjran/431 Date of Approval: 01.07.2020 Approved Mining Lease Area: 4.39 Ha Approved Mining Quantity: 34676.29 Tonnes per annum. Depth of Mining (m):3.0 Metres.		
17	Demarcation report of mining site	Date of demarcation:22.10.19		
18.	Workers (when fully operational)	30 Persons.		
19.	Water Requirements & source	Domestic: 0.60 KLD (@ 20 lpcd) Plantation: 0.15 KLD Dust Suppression: 3.09 KLD Total: 3.84 KLD Ground water/Others: Nil		
20.	Waste water generation, Treatment &its Disposal	vii) Quantity of Waste water : Nil KLD (80% of water requirement) viii) Treatment Method: Septic Tank ix) Mode of Disposal : c) Plantation purpose.: 0.15 KLD b) Dust Suppression: 3.09 KLD		
21	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.		

22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any) : Nil The comprehensive plantation plan will be submitted at the time EC.			
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	Prime Vision Industries Pvt Ltd. will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.			
		Sl. No	Description	Capital Cost (Rs)	Recurring Cost (Rs)
		1	Dust suppression through water sprinkling	Nil	1,00,000
		2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Noise Pollution	--	1,00,000
		3	Plantation and salary for one gardener (part time basis).	6,45,000	4,97,000
		4	Haul road Maintenance Cost	67,500	50,000
		TOTAL (Lakhs)		7,12,500	7,47,000
		A total of 1489 trees will be planted by the PP during the mine lease period on the land provided by the Gram Panchayat. About 40% trees i.e 595 shall be planted in the first year and 30% plants i.e 447 trees in 2 nd and 3 rd year.			
24	CER activities along with budgetary break up and responsibility to implement i) Sh. Harkesh Singh of M/s. Prime Vision Industries Pvt Ltd will be responsible for implementation of Corporate Environmental Responsibility (CER). PP will install 2 Kwh Solar Power Plant at Government Primary School in Village Behak Gujran at a cost of Rs 80,000/-				

SEAC asked the project proponent and his Environmental Consultant to clarify the following observations to which he replied as under: -

Sr. No.	Observations	Reply submitted by the project proponent and his Environmental Consultant
1.	The project proponent is required to earmark two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site. Also, monthly monitoring of the water level in the wells is required to be carried out and reported to District Mining Officer on monthly basis.	The project proponent agreed to the same.
2.	The project proponent is required to plant trees of natives species having plant height more than 3 ft along with tree guard.	The project proponent agreed to the same.
3.	The project proponent is required to submit an undertaking to the effect that the mining shall be carried out as per the approved Mining Plan and comply with the terms and conditions of Department of Mines & Geology, Govt. of Punjab as issued from time to time.	The project proponent agreed to the same.
4.	As per the condition no. 21 mentioned in the standard Environmental Conditions for sand mining as given in the Sustainable Sand Mining Management Guidelines, 2016, mining should begin only after pucca pillar, marking the boundary of lease area, is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee and a condition to the same shall be imposed in the Environmental Clearance issued to the project proponent.	The project proponent agreed to the same.
5.	The project proponent could not justify as to why the semi-mechanized mining is better for	The project proponent agreed to the same.

	environment as compared to manual mining. The Committee decided that the project proponent shall carryout mining only by manual method.	
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SEAC was satisfied from the presentation and reply given to the observation. SEAC took a copy of presentation along with reply on record.

After deliberations, SEAC decided to award silver grading to the project and forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance for mining of minor minerals (Sand) on Agricultural Land located in the revenue estate of village Behak Gujran, Tehsil Zira, District Ferozepur, Punjab submitted by M/s Prime Vision Industries Pvt. Ltd. as per Annexure-I along with the following additional conditions:

1. The project proponent shall carry out mining only by the manual method.
2. The project proponent is required to earmark two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site. Also, monthly monitoring of the water level in the wells is required to be carried out and reported to District Mining Officer on monthly basis.
3. The project proponent shall begin mining only after pucca pillar marking, the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.
4. The proponent shall plant 1489 number of plants of native species of not less than 3 ft in size at the identified location and protect the same with tree guards. The proponent shall make adequate provision of funds and ensure maintenance of the plants for a further period of three years.
5. The project proponent shall construct rain water harvesting pits along with desilting chambers in the Govt. Primary School of the village Behak Gujran, Tehsil Zira, District Ferozepur. The project proponent shall follow the CGWA guidelines for constructing the rainwater recharging pits.
6. 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. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least minimum amount of Rs. 80,000/- towards following activities:

Sr. No.	Particulars	Amount (in Rs)
1	PP will install 1 Kwh Solar Power Plant at Government Primary School in village Behak Gujran, Tehsil Zira, District Ferozepur	80,000/-
Total		80,000/

Item No.195.21: Application for obtaining environmental clearance under EIA notification dated 14.09.2006 for mining of minor minerals On Agricultural Land in the village Chhanga Rai Uttar, Tehsil Guru Har Sahai District- Ferozepur, Punjab submitted by Prime Vision Industries Private Limited. (Proposal No. SIA/PB/MIN/178971/2020)

SEAC observed as under:

M/s Prime Vision Industries Pvt Ltd has applied for obtaining environmental clearance under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) **On Agricultural Land in the village Chhanga Rai Uttar, Tehsil Guru Har Sahai District- Ferozepur, Punjab** on 19.10.2020. The project is covered under category 1 (a) of the Schedule appended to the said notification.

Further, on the basis of scrutiny of application, EDS were raised on 16.04.2020 by SEIAA to which project proponent replied on 16.06.2020, respectively. The project proponent submitted all the requisite documents as per the check list of mining case along with Form-02. The project proponent submitted a hard copy of the same, which was taken on record.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Prime Vision Industries Pvt Ltd 312, Vishal Chamber P-1, Sector-18, Noida, Uttar Pradesh. 9646210786 Primevision.pb.ec@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	P and M solution 9910037943 Manasvyas23@gmail.com

1.0 Deliberations during the 195th meeting of SEAC held on 24.10.2020.

The case was considered by SEAC in its 195th meeting held on 24.10.2020. The meeting was attended by the following through Video Conference on behalf of the project proponent:

- (i) Sh. Harkesh Singh, Authorised signatory, on behalf of the project proponent.
- (ii) Sh. Subhash Kumar, EIA Coordinator and Sh. Manas Vyas, FAE, M/s P & M Solutions, Noida, Environment Consultant of the promoter company.

SEAC allowed the project proponent to present the salient features of the project and the Environment Consultant of the promoter company presented the same as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIN/178971/2020
2.	Project Name & Location	CHHANGA RAI UTTAR SAND MINING PROJECT AT HADBAST NO-298, VILLAGE-CHHANGA RAI

		UTTAR, TEHSIL- GURU HAR SAHAI, DISTRICT-FIROZPUR, PUNJAB		
3	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006.	SI. No. 1(a)		
4	Details of Mining Lease			
i)	Mineral (s) to be mined	Sand		
ii)	Capacity of Mine	The Proposed production Capacity 17294.0TPA.		
iii)	Mining Lease Area	Total area is 2.06 Ha		
iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Reference No:1709-10 Date of Issue:09.07.2019 Validity of LOI: Mining Lease Area: 2.06Ha. Mining Quantity: 17294.0TPA		
5	HadBast No.	298		
6	Land Khasra No. & their consent details			
	Sr No	Type	Khasra No	
	1	Govt Land		
	2	Private Land	26//2/2(4-0),2/1(4-0),3/1(2-0),3/2/1(2-0),3/2/2(4-0),4/1(4-13),8/1/1/1/1(1-8),8/1/1/1/2(1-8),8/2(1-6), 8/1/2(1-6),8/1/1/2(2-12),10//2/1/2(2-2),10/2/2(1-18)	
7.	Latitude & Longitude			
	S.No.	Corner	Latitude	Longitude
	1	A	30° 45'1.55"N	74°19'14.23"E
	2	B	30° 45'3.43"N	74°19'14.13"E
	3	C	30° 45'3.49"N	74°19'15.44"E
	4	D	30° 45'5.49"N	74°19'15.51"E
	5	E	30° 45'5.30"N	74°19'22.07"E
	6	F	30° 45'3.28"N	74°19'21.96"E
	7	G	30° 45'3.30"N	74°19'20.11"E
	8	H	30° 45'1.44"N	74°19'20.08"E

8	Whether the project attracts the General Condition.	No																																							
9.	Does the project involves diversion of forest land.If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof	No																																							
10	Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary? If yes, Status of NOC. If No, If No, submit documentary proof	No																																							
11.	Land requirement for the project	<p>Prior to the project proposal</p> <table border="1"> <thead> <tr> <th>Sr No.</th> <th>Ownership pattern</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>i)</td> <td>Forest Land</td> <td>Nil</td> </tr> <tr> <td>ii)</td> <td>Private land</td> <td>2.06</td> </tr> <tr> <td>iii)</td> <td>Government land</td> <td>Nil</td> </tr> <tr> <td>iv)</td> <td>Revenue land</td> <td>Nil</td> </tr> <tr> <td>v)</td> <td>Other land</td> <td>Nil</td> </tr> <tr> <td>vi)</td> <td>Total land</td> <td>2.06</td> </tr> </tbody> </table> <p>Present Land use Break Up</p> <table border="1"> <thead> <tr> <th>Sr No.</th> <th>Land use</th> <th>Area in Ha</th> </tr> </thead> <tbody> <tr> <td>i)</td> <td>Agriculture Area</td> <td>2.06</td> </tr> <tr> <td>ii)</td> <td>Waste/Barren Area</td> <td></td> </tr> <tr> <td>iii)</td> <td>Settlement</td> <td></td> </tr> <tr> <td>iv)</td> <td>Surface water Bodies</td> <td></td> </tr> <tr> <td>v)</td> <td>Other(Specify)</td> <td>Nil</td> </tr> </tbody> </table>	Sr No.	Ownership pattern	Area in Ha	i)	Forest Land	Nil	ii)	Private land	2.06	iii)	Government land	Nil	iv)	Revenue land	Nil	v)	Other land	Nil	vi)	Total land	2.06	Sr No.	Land use	Area in Ha	i)	Agriculture Area	2.06	ii)	Waste/Barren Area		iii)	Settlement		iv)	Surface water Bodies		v)	Other(Specify)	Nil
Sr No.	Ownership pattern	Area in Ha																																							
i)	Forest Land	Nil																																							
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iii)	Settlement																																								
iv)	Surface water Bodies																																								
v)	Other(Specify)	Nil																																							
12.	Cost of the project	Overall cost of the project is about Rs. 67,11852/-. The capital investment in the project is estimated to be Rs 14,87,284/-.																																							
13.	Environmental Clearance. Fee details	Rs 4120/- Vide NEFT No 614329541 dated 07/10/20																																							
14.	Details of Final District Survey Report	Approved by :- District Commissioner .Ferozpur Reference No:728 Date of Issue: 8/06/2020																																							
15	Details of visit report of Sub Divisional Level Committee	Date of visit: - Recommendation: Suitable for mining																																							
16	Details of Mining Plan	Approved by :- State Geologists Punjab																																							

		Approval Letter No: Glg/Pb/M.P./2020/Chhanga Rai Uttar/534 Date of Approval: 14.08.2020 Approved Mining Lease Area: 2.06 Ha Approved Mining Quantity: 17294.0 Tonnes per annum. Depth of Mining (m):3.0 Metres.														
17	Demarcation report of mining site	Date of demarcation:18.01.2020														
18.	Workers (when fully operational)	20 Persons.														
19.	Water Requirements & source	Domestic: 0.4 KLD (@ 20 lpcd) Plantation: 0.12 KLD Dust Suppression: 2.4 KLD Total: 2.92 KLD Ground water/Others: Nil														
20.	Waste water generation, Treatment & its Disposal	x) Quantity of Waste water : Nil KLD (80% of water requirement) xi) Treatment Method: Septic Tank xii) Mode of Disposal : d) Plantation purpose.: 0.12 KLD b) Dust Suppression: 2.4 KLD														
21	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.														
22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any) : Nil The comprehensive plantation plan will be submitted at the time EC.														
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	<p>Prime Vision Industries Pvt Ltd. will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl. No</th> <th style="text-align: center;">Description</th> <th style="text-align: center;">Capital Cost (Rs)</th> <th style="text-align: center;">Recurring Cost (Rs)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Dust suppression through water sprinkling</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">1,00,000</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Pollution Monitoring i) Air pollution ii) Water pollution iii) Noise Pollution</td> <td style="text-align: center;">--</td> <td style="text-align: center;">1,00,000</td> </tr> </tbody> </table>			Sl. No	Description	Capital Cost (Rs)	Recurring Cost (Rs)	1	Dust suppression through water sprinkling	Nil	1,00,000	2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Noise Pollution	--	1,00,000
Sl. No	Description	Capital Cost (Rs)	Recurring Cost (Rs)													
1	Dust suppression through water sprinkling	Nil	1,00,000													
2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Noise Pollution	--	1,00,000													

		3	Plantation and salary for one gardener (part time basis).	3,22,000	2,53,000
		4	Haul road Maintenance Cost	57,500	25,000
		TOTAL (Lakhs)		3,79,500	4,78,000
		A total of 678 trees will be planted by the PP during the mine lease period on the land provided by the Gram Panchayat. About 40% trees i.e 272 shall be planted in the first year and 30% plants i.e 203 trees in 2 nd and 3 rd year.			
24	CER activities along with budgetary break up and responsibility to implement i) Sh. Harkesh Singh of M/s. Prime Vision Industries Pvt Ltd will be responsible for implementation of Corporate Environmental Responsibility (CER). PP will install 1 Kwh Solar Power Plant at Government Primary School in Village Chhanga Rai Uttar at a cost of RS 40,000/-				

SEAC asked the project proponent and his Environmental Consultant to clarify the following observations to which he replied as under: -

Sr. No.	Observations	Reply submitted by the project proponent and his Environmental Consultant
1.	The project proponent is required to earmark two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site. Also, monthly monitoring of the water level in the wells is required to be carried out and reported to District Mining Officer on monthly basis.	The project proponent agreed to the same.
2.	The project proponent is required to plant trees of natives species having plant height more than 3 ft along with tree guard.	The project proponent agreed to the same.
3.	The project proponent is required to submit an undertaking to the effect that the mining shall be carried out as per the approved Mining Plan and comply with the terms and conditions of Department of Mines & Geology, Govt. of Punjab as issued from time to time.	The project proponent agreed to the same.

4.	As per the condition no. 21 mentioned in the standard Environmental Conditions for sand mining as given in the Sustainable Sand Mining Management Guidelines, 2016, mining should begin only after pucca pillar, marking the boundary of lease area, is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee and a condition to the same shall be imposed in the Environmental Clearance issued to the project proponent.	The project proponent agreed to the same.
5.	The project proponent could not justify as to why the semi-mechanized mining is better for environment as compared to manual mining. The Committee decided that the project proponent shall carryout mining only by manual method.	The project proponent agreed to the same.

SEAC was satisfied from the presentation and reply given to the observation. SEAC took a copy of presentation along with reply on record.

After deliberations, SEAC decided to award silver grading to the project and forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance for mining of minor minerals (Sand) on Agricultural Land located in the revenue estate of village Chhanga Rai Uttar, Tehsil Guru Har Sahai, District Ferozepur, Punjab submitted by M/s Prime Vision Industries Pvt. Ltd. as per Annexure-I along with the following additional conditions:

1. The project proponent shall carry out mining only by the manual method.
2. The project proponent is required to earmark two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site. Also, monthly monitoring of the water level in the wells is required to be carried out and reported to District Mining Officer on monthly basis.
3. The project proponent shall begin mining only after pucca pillar marking, the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.
4. The proponent shall plant 678 number of plants of native species of not less than 3 ft in size at the identified location and protect the same with tree guards. The

proponent shall make adequate provision of funds and ensure maintenance of the plants for a further period of three years.

5. The project proponent shall construct rain water harvesting pits along with desilting chambers in the Govt. Primary School of the village Chhanga Rai Uttar, Tehsil Guru Har Sahai, District Ferozepur, Punjab. The project proponent shall follow the CGWA guidelines for constructing the rainwater recharging pits.
6. 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. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least minimum amount of Rs. 40,000/- towards following activities:

Sr. No.	Particulars	Amount (in Rs)
1	PP will install 1 Kwh Solar Power Plant at Government Primary School in Village Chhanga Rai Uttar, Tehsil Guru Har Sahai, District Ferozepur	40,000/-
Total		40,000/

Item No.195.22: Application for obtaining environmental clearance under EIA notification dated 14.09.2006 for mining of minor minerals On Agricultural Land in the village Midda Haji, Tehsil Ferozepur District- Ferozepur, Punjab submitted by Prime Vision Industries Private Limited.(Proposal No. SIA/PB/MIN/179934/2020)

SEAC observed as under:

M/s Prime Vision Industries Pvt Ltd has applied for obtaining environmental clearance under EIA notification dated 14.09.2006 for mining of minor minerals (Sand) **On Agricultural Land in the village Midda Haji, Tehsil Ferozepur District- Ferozepur, Punjab** on 21.10.2020. The project is covered under category 1 (a) of the Schedule appended to the said notification.

Further, on the basis of scrutiny of application, EDS were raised on 16.04.2020 by SEIAA to which project proponent replied on 16.06.2020, respectively. The project proponent submitted all the requisite documents as per the check list of mining case along with Form-02. The project proponent submitted a hard copy of the same, which was taken on record.

(A) General

i)	Name of Applicant & Correspondence address: Mobile No: Email ID:	M/s Prime Vision Industries Pvt Ltd 312, Vishal Chamber P-1, Sector-18, Noida, Uttar Pradesh. 9646210786 Primevision.pb.ec@gmail.com
ii)	Name of Environmental Consultant Mobile No. Email ID	P and M solution 9910037943 Manasvyas23@gmail.com

1.0 Deliberations during the 195th meeting of SEAC held on 24.10.2020.

The case was considered by SEAC in its 195th meeting held on 24.10.2020. The meeting was attended by the following through Video Conference on behalf of the project proponent:

- (i) Sh. Harkesh Singh, Authorised signatory, on behalf of the project proponent.
- (ii) Sh. Subhash Kumar, EIA Coordinator and Sh. Manas Vyas, FAE, M/s P & M Solutions, Noida, Environment Consultant of the promoter company.

SEAC allowed the project proponent to present the salient features of the project and the Environment Consultant of the promoter company presented the same as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIN/179934/2020

2.	Project Name & Location	MIDDA HAJI SAND MINING PROJECT AT HADBAST NO-290, VILLAGE-MIDDA HAJI, TEHSIL- FEROZEPUR, DISTRICT-FIROZPUR, PUNJAB		
3	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006.	SI. No. 1(a)		
4	Details of Mining Lease			
i)	Mineral (s) to be mined	Sand		
ii)	Capacity of Mine	The Proposed production Capacity 28914.15TPA.		
iii)	Mining Lease Area	Total area is 3.47 Ha		
iv)	Details Letter of Intent (LOI)/E-Auction issued by the State Govt.	Reference No:1709-10 Date of Issue:09.07.2019 Validity of LOI: Mining Lease Area: 3.47Ha. Mining Quantity: 28914.15TPA		
5	HadBast No.	290		
6	Land Khasra No. & their consent details			
	Sr No	Type	Khasra No	
	1	Govt Land		
	2	Private Land	8//8(8-0),9(8-0),10/1(7-9),10/2(0-9),11/2(4-0),12/1(2-11),12/2/1/2(0-4),12/2/2(5-0),13/2(4-0),14(8-0),18(8-0),199/1(2-16),19/2(5-4),23/2(4-0)	
7.	Latitude & Longitude			
	S.No.	Corner	Latitude	Longitude
	1	A	30° 55'38.67"N	74°29'19.91"E
	2	B	30° 55'38.59"N	74°29'19.91"E
	3	C	30° 55'36.56"N	74°29'19.82"E
	4	D	30° 55'36.57"N	74°29'22.34"E
	5	E	30° 55'34.57"N	74°29'22.34"E
	6	F	30° 55'34.66"N	74°29'19.86"E
	7	G	30° 55'30.85"N	74°29'19.63"E
	8	H	30° 55'30.89"N	74°29'18.39"E

	9	I	30° 55'32.85"N	74°29'18.51"E
	10	J	30° 55'32.85"N	74°29'14.81"E
	11	K	30° 55'34.83"N	74°29'14.85"E
	12	L	30° 55'38.67"N	74°29'13.62"E
	13	M	30° 55'36.79"N	74°29'13.65"E
	14	N	30° 55'36.79"N	74°29'12.31"E
8	Whether the project attracts the General Condition.		No	
9.	Does the project involves diversion of forest land.If yes, a. Extent of the forest land. b. Status of the forest clearance. If No, submit documentary proof		No	
10	Does the project fall within 10 km of eco-sensitive area/ National park/Wild Life Sanctuary? If yes, Status of NOC. If No, If No, submit documentary proof		No	
11.	Land requirement for the project		Prior to the project proposal	
	Sr No.	Ownership pattern	Area in Ha	
	i)	Forest Land	Nil	
	ii)	Private land	3.47	
	iii)	Government land	Nil	
	iv)	Revenue land	Nil	
	v)	Other land	Nil	
	vi)	Total land	3.47	
	Present Land use Break Up			
	Sr No.	Land use	Area in Ha	
	i)	Agriculture Area	3.47	
	ii)	Waste/Barren Area		
	iii)	Settlement		
	iv)	Surface water Bodies		
	v)	Other(Specify)	Nil	

"Proceedings of 195th meeting of SEAC
held on 24.10.2020"

12.	Cost of the project	Overall cost of the project is about Rs. 1,08,09,812/-. The capital investment in the project is estimated to be Rs 24,86,604/-.
13.	Environmental Clearance. Fee details	Rs 6940/- Vide NEFT No 614340360 dated 07/10/20
14.	Details of Final District Survey Report	Approved by :- District Commissioner .Ferozpur Reference No:728 Date of Issue: 8/06/2020 Mining Lease Area: 3.47 Ha Mining Quantity: 28914.15TPA. Mining Depth: 3.0 Meters Safe distance from adjacent land :7.5m Annual rate of replenishment as per the study conducted: NA
15	Details of visit report of Sub Divisional Level Committee	Date of visit: - 08.09.17 Recommendation: Suitable for mining
16	Details of Mining Plan	Approved by :- State Geologists Punjab Approval Letter No: Glg/Pb/M.P./2020/Midda Haji/531 Date of Approval: 14.08.2020 Approved Mining Lease Area: 3.47 Ha Approved Mining Quantity: 28914.15 Tonnes per annum. Depth of Mining (m):3.0 Metres.
17	Demarcation report of mining site	Date of demarcation:04.11.19
18.	Workers (when fully operational)	28 Persons.
19.	Water Requirements & source	Domestic: 0.56 KLD (@ 20 lpcd) Plantation: 0.20 KLD Dust Suppression: 2.50 KLD Total: 3.26 KLD Ground water/Others: Nil
20.	Waste water generation, Treatment & its Disposal	i) Quantity of Waste water : Nil KLD (80% of water requirement) ii) Treatment Method: Septic Tank iii) Mode of Disposal : a) Plantation purpose.: 0.20 KLD b) Dust Suppression: 2.50 KLD
21	Solid waste generation and its disposal	Solid waste will be disposed as per Solid Waste Management Rules, 2016.

22.	Green Belt Development Plan including no. of trees to be planted & its species.	Tree cutting (if any) : Nil The comprehensive plantation plan will be submitted at the time EC.			
23.	Environment Management Plan along with Budgetary breakup and responsibility to implement	Prime Vision Industries Pvt Ltd. will be responsible for the implementation of EMP till the mining activities closed as per the mining plan.			
		Sl. No	Description	Capital Cost (Rs)	Recurring Cost (Rs)
		1	Dust suppression through water sprinkling	Nil	1,00,000
		2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Noise Pollution	--	1,00,000
		3	Plantation and salary for one gardener (part time basis).	5,09,000	3,93,000
		4	Haul road Maintenance Cost	57,500	25,000
		TOTAL (Lakhs)		4,37,000	6,18,000
		A total of 1145 trees will be planted by the PP during the mine lease period on the land provided by the Gram Panchayat. About 40% trees i.e 459 shall be planted in the first year and 30% plants i.e 343 trees in 2 nd and 3 rd year.			
24	CER activities along with budgetary break up and responsibility to implement i) Sh. Harkesh Singh of M/s. Prime Vision Industries Pvt Ltd will be responsible for implementation of Corporate Environmental Responsibility (CER). PP will install 1 Kwh Solar Power Plant at Government Primary School in Village Midda Haji at a cost of Rs 40,000/-				

SEAC asked the project proponent and his Environmental Consultant to clarify the following observations to which he replied as under: -

Sr. No.	Observations	Reply submitted by the project proponent and his Environmental Consultant
1.	The project proponent is required to earmark two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site. Also, monthly monitoring of the water level in the wells is required to be carried out and reported to District Mining Officer on monthly basis.	The project proponent agreed to the same.
2.	The project proponent is required to plant trees of natives species having plant height more than 3 ft along with tree guard.	The project proponent agreed to the same.
3.	The project proponent is required to submit an undertaking to the effect that the mining shall be carried out as per the approved Mining Plan and comply with the terms and conditions of Department of Mines & Geology, Govt. of Punjab as issued from time to time.	The project proponent agreed to the same.
4.	As per the condition no. 21 mentioned in the standard Environmental Conditions for sand mining as given in the Sustainable Sand Mining Management Guidelines, 2016, mining should begin only after pucca pillar, marking the boundary of lease area, is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee and a condition to the same shall be imposed in the Environmental Clearance issued to the project proponent.	The project proponent agreed to the same.
5.	The project proponent could not justify as to why the semi-mechanized mining is better for	The project proponent agreed to the same.

	environment as compared to manual mining. The Committee decided that the project proponent shall carryout mining only by manual method.	
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SEAC was satisfied from the presentation and reply given to the observation. SEAC took a copy of presentation along with reply on record.

After deliberations, SEAC decided to award silver grading to the project and forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance for mining of minor minerals (Sand) on Agricultural Land located in the revenue estate of village Midda Haji, Tehsil & District Ferozepur, Punjab submitted by M/s Prime Vision Industries Pvt. Ltd. as per Annexure-I along with the following additional conditions:

1. The project proponent shall carry out mining only by the manual method.
2. The project proponent is required to earmark two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site. Also, monthly monitoring of the water level in the wells is required to be carried out and reported to District Mining Officer on monthly basis.
3. The project proponent shall begin mining only after pucca pillar marking, the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.
4. The proponent shall plant 1145 number of plants of native species of not less than 3 ft in size at the identified location and protect the same with tree guards. The proponent shall make adequate provision of funds and ensure maintenance of the plants for a further period of three years.
5. The project proponent shall construct rain water harvesting pits along with desilting chambers in the Govt. Primary School of the village Midda Haji, Tehsil & District Ferozepur. The project proponent shall follow the CGWA guidelines for constructing the rainwater recharging pits.
6. 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. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least minimum amount of Rs. 40,000/- towards following activities:

Sr. No.	Particulars	Amount (in Rs)
1	PP will install solar water pump for villagers for use in irrigation	40,000/-
Total		40,000/

Item No 195.23: Application for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the expansion of a group housing project namely “Golden Sand” at Village Gazipur, DeraBassi, Zirakpur, SAS Nagar Mohali, Punjab by M/s Golden sand Apparments and SRK Apartments.

1.0 Background

Earlier the project proponent was granted Environmental Clearance for establishment of a group housing project namely “**Golden Sand**” at village Gazipur, DeraBassi, Zirakpur, SAS Nagar Mohali, Punjab vide no. SIA/PB/MIS/164609/2020. The said EC was granted for total plot area 27957.74 sqm and total built up area 74179 sqm.

Now the project proponent has submitted an application for obtaining Environmental Clearance for the expansion of the earlier project. After expansion, the built up area will increase by 18385 sqm and the total built up area will become 92564 sqm.

The project proponent submitted the Form I, 1A and other additional documents. They have also deposited the processing fee amounting to Rs. 33680/- through NEFT no. P20062024904383 Dated 20.06.2020.

1.1 Deliberations during the 195th meeting of SEAC held on 24.10.2020

The case was considered by SEAC in its 195th meeting held on 24.10.2020 and was attended by the following on behalf of the project proponent:

- i) Sh. Amit Nanda, Partner and Sh. Deepak Gupta, Environmental Advisor.
- ii) Sh. Sital Singh, EIA Coordinator, M/s CPTL, Mohali, Environmental Consultant of the project proponent.

Thereafter, SEAC allowed the Project proponent to present the salient features of the project and the Environmental Consultant of the same presented as under:

S.No.	Item	Details
1.	Online Proposal No.	SIA/PB/MIS/164609/2020.
2.	Name and Location of the project	“Golden Sand” located at Zirakpur.
3.	Latitude & Longitude	30.38.48.98”N 76.50 36.46”E 30.38.46.22”N 76.50 36.03”E 30.38.43.57”N 76.50 41.81”E 30.38.47.86”N 76.5045.38”E
4.	Project/activity covered under item of scheduled to the EIA Notification, 14.09.2006	8 B (Expansion)

5.	Whether the project is in critical polluted area or not.	None																				
6.	If the project involves diversion of forest land. If yes, a) Extent of the forest land. b) Status of the forest clearance.	Yes, NOC obtained																				
7.	a) Is the project covered under PLPA,1900, if No but located near to PLPA area then the project proponent is required to submit NOC from the concerned DFO to the effect that project area does not fall under the provision of PLPA Act, 1900. b) Is the project covered under PLPA, 1900, if yes then Status of the NOC w.r.t PLPA,1900.	No																				
8.	If the project falls within 10 km of ecosensitive area/ National park/Wild Life Sanctuary. If yes, c) Name of ecosensitive area/ National park/Wild Life Sanctuary and distance from the project site. d) Status of clearance from National Board for Wild Life (NBWL).	No No No																				
9.	Classification/Land use pattern as per Master Plan	Residential,																				
10.	Cost of the project	86 Cr																				
11.	Total Plot area, Built up Area and Green area	FOR NEW PROJECTS: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">"Table A"</th> </tr> <tr> <th style="width: 25%;">Description</th> <th style="width: 25%;">OLD</th> <th style="width: 25%;">Addition</th> <th style="width: 25%;">Total</th> </tr> </thead> <tbody> <tr> <td>Land</td> <td>27957.74Sqm</td> <td>--</td> <td>27957.74</td> </tr> <tr> <td>Built-up area</td> <td>74179 Sqm</td> <td>18385 Sqm</td> <td>92564</td> </tr> <tr> <td>Green area</td> <td></td> <td></td> <td>45</td> </tr> </tbody> </table>	"Table A"				Description	OLD	Addition	Total	Land	27957.74Sqm	--	27957.74	Built-up area	74179 Sqm	18385 Sqm	92564	Green area			45
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12.	Population (when fully operational)	3021 persons																				
13.	Water Requirements & source in Construction Phase	5-10 KLD met by STP within the project																				
14.	Break up of Water Requirements & source in Operation Phase (Summer, Rainy, Winter):																					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Sr.</th> <th style="width: 25%;">Season</th> <th style="width: 30%;">Fresh Water</th> <th style="width: 30%;">Reuse water</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Sr.	Season	Fresh Water	Reuse water																	
Sr.	Season	Fresh Water	Reuse water																			

No.	Domestic	Fresh water) KLD	For Flushing purposes KLD	Green Area KLD	HVAC If any KLD																					
1	Summer	403	269	134	25	--																				
2	Winter	403	269	134	7																					
3	Rainy	403	269	134	0																					
15.	Source of Water			<ul style="list-style-type: none"> • Ground water (tubewell) • Treated waste water will be used in the construction (STP installed with in project) • Earlier the permission from the CGWA has been obtained and now revised has been applied. • Recirculation of treated water. 																						
16.	Treatment & Disposal arrangements of waste water in Construction Phase			STP which is already installed																						
17.	Disposal Arrangement of Waste water in Operation Phase			<p>Total =322 KLD, which will be treated in the STP of capacity 350 KLD to be installed in the project premises.</p> <table border="1"> <thead> <tr> <th>Sr.No.</th> <th>Season</th> <th>For Flushing purposes (KLD)</th> <th>Green Area sqm (KLD)</th> <th>M S if (</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Summer</td> <td>134</td> <td>25</td> <td>1</td> </tr> <tr> <td>2.</td> <td>Winter</td> <td>134</td> <td>7</td> <td>1</td> </tr> <tr> <td>3.</td> <td>Rainy</td> <td>134</td> <td>0</td> <td>1</td> </tr> </tbody> </table>			Sr.No.	Season	For Flushing purposes (KLD)	Green Area sqm (KLD)	M S if (1.	Summer	134	25	1	2.	Winter	134	7	1	3.	Rainy	134	0	1
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1.	Summer	134	25	1																						
2.	Winter	134	7	1																						
3.	Rainy	134	0	1																						
18.	Rain water recharging detail			11316 m3/year rain water will be collected and 7 no. of recharging pits will be provided to recharge the rooftop rainwater of buildings after treatment through oil & Grease traps																						
19.	Solid waste generation and its disposal			<p>a)1200 kg/day b) Solid wastes will be appropriately segregated (at source. by providing bins) into recyclable, Bio-degradable Components, and non- biodegradable.</p>																						
20	Hazardous Waste & EWaste			<p>1) Cat 5.1 Qty 25 ltr. 2) Any other Category</p> <p>Used oil from DG sets will be sold to registered recyclers and E-waste will be disposed off as per the E-waste (Management) Amendment Rules, 2018.</p>																						
21	Energy Requirements & Saving			a) 3150 KW from PSPCL.																						

		<p>b) 1x 240 KVA, 2x500 KVA & 1x 125 KVA Energy Saving measures:</p> <ul style="list-style-type: none"> • Solar Light 15 No = 22.5 KWHD • Common area (300) light bulbs(60W) replaced with LED 15 W = 162 KWHD • Energy Saving @2200 KWH annually with 100 liters solar heated water use/day • Energy Saved for use of 3000 lit hot water/day $5000 \times 2200/100 = 66000$ KWH/year = 180KWHD • Total Energy saved/day $22+162+180= 364.5$ KWHD 									
22	Environment Management Plan along with Budgetary break up phase wise and responsibility to implement	<p>During construction phase GM will be responsible and during operation phase, GM Will be responsible for implementation of the EMP.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Description</th> <th style="width: 30%;">Capital Cost (Rs)</th> <th style="width: 30%;">recurring Cost (Rs)</th> </tr> </thead> <tbody> <tr> <td>Construction</td> <td>104 lac</td> <td>5.50</td> </tr> <tr> <td>Operation</td> <td></td> <td>13.40</td> </tr> </tbody> </table>	Description	Capital Cost (Rs)	recurring Cost (Rs)	Construction	104 lac	5.50	Operation		13.40
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Construction	104 lac	5.50									
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23	CER activities along with budgetary break up and responsibility to implement	<p>partner will be responsible for implementation of the CER activities. The details of the various CER activities, fund allocated and its completion schedule are as under:</p> <ul style="list-style-type: none"> • The implementation of the CER will be responsibility of partner of the company • Rs 12 lacs will be spend on Government School for providing Computers, Books and Laboratory equipments • It will be started in March 2022 and completed in 2022 only 									
24	Other important facts (Applicable to EC projects only)	<p>a) Whether all the environmental monitoring parameter are within permissible limits prescribed for such type of projects. (Applicable to EC projects) yes</p>									

		<p>b) The MC Zirakpur , has issued the certificate vide letter no.1410 dated 05/06/2015 to the effect that facility of the sewer is available for the Residential project, treated waste water after depositing requisite charges to the MC Sewer.</p> <p>c) The MC Zirakpur has issued certificate vide letter no 1225 dated 03/10/2012 to the effect that the MC zirakpur will lift the MSW but the project proponent will pay the fee.</p>
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SEAC perused the compliance report sent by the MoEF vide letter no. 642-644 dated 29.09.2020. SEAC observed that the observations raised by the MoEF was complied with by the project proponent except for obtaining authorization under HWM Rules, 2016.

The project proponent applied for obtaining authorization under the HWM Rules 2016 to PPCB and submitted a copy of the same to SEAC. The project proponent also submitted the structural safety certificate.

SEAC was satisfied with the presentation and reply submitted by the project proponent.

2.0 Recommendations

After detailed deliberations, SEAC decided to award 'Silver Grading' to the project proposal and to forward the application of the project proponent to SEIAA with the recommendations to grant Environmental Clearance for expansion of the project namely "Golder Sand" having built-up area 92564 sqm (after expansion) in a total land area of 27957.74 sqm located at village Gazipur, Zirakpur, tehsil Dera Bassi, distt. SAS Nagar, Mohali (Punjab), as per the details mentioned in the Form 1, 1A, EMP & subsequent presentation /clarifications made by the project proponent and his consultant with, proposed measures, and the following conditions:-

I. Statutory compliance:

- i) 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.
- ii) 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.

- iii) The project proponent shall obtain forest clearance under the provisions of the Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- iv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- v) The project proponent shall obtain Consent to Establish / Operate under the provisions of the Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board / Committee.
- vi) The project proponent shall obtain the necessary permission for drawl of ground water/ surface water required for the project from the competent authority.
- vii) 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.
- viii) 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.
- ix) The provisions of the Solid Waste (Management) Rules, 2016, E-Waste (Management) Rules, 2016, Construction & Demolition Waste Rules, 2016 and the Plastics Waste (Management) Rules, 2016 shall be followed.
- x) The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.
- xi) The project site shall confirm to the suitability as prescribed under the provisions laid down under the master plan of respective city/ town. For that, the project proponent shall either to submit the NOC/ land use conformity certificate from Deptt. of Town and Country Planning or other concerned Authority under whom jurisdiction, the site falls.
- xii) Besides above, the project proponent shall also comply with siting criteria / guidelines, standard operating practices, code of practice and guidelines if any prescribed by the SPCB/CPCB/MoEF&CC for such type of projects.
- xiii) The project proponent shall get the layout plans approved from the Competent Authority for the activities / establishments to be set up at project site in consonance of the project proposal for which this environment clearance is applied.

II. Air quality monitoring and preservation

- i) 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.

- ii) A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
- iii) 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 PM2.5) covering upwind and downwind directions during the construction period.
- iv) 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.
- v) 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 3m height or 1/3rd of the building height and maximum upto 10m). 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.
- vi) No Excavation of soil shall be carried out without adequate dust mitigation measures in place.
- vii) No loose soil or sand or construction & demolition waste or any other construction material that causes dust shall be left uncovered.
- viii) No uncovered vehicles carrying construction material and waste shall be permitted
- ix) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- x) Grinding and Cutting of building material in open area shall be prohibited. Wet jet shall be provided for grinding and stone cutting.
- xi) Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.
- xii) All construction and demolition debris shall be stored at the site within earmarked area and road side storage of construction material and waste shall be prohibited. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
- xiii) 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 emission standards.
- xiv) 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.

- xv) For indoor air quality the ventilation provisions as per National Building Code of India.
- xvi) Roads leading to or at construction site must be paved and blacktopped (i.e. metallic road)
- xvii) Dust Mitigation measures shall be displayed prominently at the construction site for easy public viewing.
- xviii) Construction and Demolition Waste Processing and Disposal site shall be identified and required dust mitigation measure be notified at the site.

III. Water quality monitoring and preservation

- i) The natural drain system should be maintained for ensuring unrestricted flow of water.
- ii) 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.
- iii) Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
- iv) The total water requirement for the project will be 403 KL/day, out of which fresh water demand of 269 KL /day shall be met through groundwater and remaining through recycling of treated waste water from their own STP. Total fresh water use shall not exceed the proposed requirement as provided in the project details.
- vi) a)The total wastewater generation from the project will be 322 KL/day, which will be treated in STP to be installed within the project premises. As proposed, reuse of treated wastewater shall be as under:-

Sr. No.	Season	For Flushing purposes (KLD)	Green Area (KLD)	MC Sewer KLD
1.	Summer	134	25	163
2.	Winter	134	07	181
3.	Rainy	134	00	188

- b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.
- c) During construction phase, the project proponent shall ensure that the waste water being generated from the labour quarters/toilets shall be

treated and disposed in environment friendly manner. The project proponent shall also exercise the option of modular bio-toilets or will provide proper and adequately design septic tanks for the treatment of such waste water and treated effluents shall be utilized for green area/plantation

- vi) The project proponent shall ensure safe drinking water supply to the habitants. Adequate treatment facility for drinking water shall be provided, if required.
- vii) 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.
- viii) 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.
- ix) At least 20% of the open spaces as required by the local building bye-Jaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
- x) 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.
- xi) The respective project proponent shall discourage the installation of R.O. plants in their projects in order to save the wastage in form of RO reject. However, in case the requirement of installing RO plant is utmost necessary then the rejected stream from the RO shall be separated and shall be utilized by storing the same within the particular component i.e. (Tower/Mall) or in a common place in the project premises.
- xii) The project proponent shall also adopt the new/innovating technologies like less water discharging taps (faucet with aerators)/urinals with electronic sensor system /water less urinals / twin flush cisterns/ sensor based alarming system for overhead water storage tanks and make it a part of the environmental management plans / building plans so as to reduce the water consumption/ground water abstraction in their Building Construction & Industrial projects.
- xiii) The project proponent will provide plumbing system for reuse of treated wastewater for flushing/ HVAC/ other purposes etc. and colour coding of different pipe lines carrying water/wastewater from different sources / treated wastewater as follows:

Sr. No	Nature of the Stream	Color code
a)	Fresh water	Blue

b)	Untreated wastewater from Toilets/ urinal & from Kitchen	Black
c)	Untreated wastewater from Bathing/shower area, hand washing (Washbasin / sinks) and from Cloth Washing	Grey
d)	Reject water streams from RO plants & AC condensate (this is to be implemented wherever centralized AC system and common RO has been proposed in the Project). Further, in case of individual houses/establishment this proposal may also be implemented wherever possible.	White
e)	Treated wastewater (for reuse only for plantation purposes) from the STP treating black water	Green
f)	Treated wastewater (for reuse for flushing purposes or any other activity except plantation) from the STP treating grey water	Green with strips
g)	Storm water	Orange

- xiv) Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xv) The CGWA provisions on rain water harvesting should be followed. 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. As per the proposal submitted by the project proponent 7 no. rain water harvesting recharge pits /storage tanks shall be provided for ground water recharging as per the CGWB norms. The ground water shall not be withdrawn without approval from the Competent Authority.
- xvi) All recharge should be limited to shallow aquifer.
- xvii) No ground water shall be used during construction phase of the project. Only treated sewage/wastewater shall be used. A proper record in this regard should be maintained and available at site.
- xviii) 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.
- xix) 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.
- xx) Sewage shall be treated in the STP with tertiary treatment. STP shall be installed in a phased manner viz a viz in the module system designed in such a way so as to efficiently treat the wastewater with an increase in its

quantity due to rise in occupancy. The treated effluent from STP shall be recycled/reused for flushing, AC make up water and gardening. No treated water shall be disposed of into the municipal storm water drain.

- xxi) No sewage or untreated effluent water would be discharged through storm water drains. 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 the Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
- xxii) Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.
- xxiii) Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention

- i) 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.
- ii) 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.
- iii) 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.

V. Energy Conservation measures

- i) 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.
- ii) Outdoor and common area lighting shall be LED.
- iii) 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.

- iv) Energy conservation measures like installation of LEDs for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
- v) 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.
- vi) Solar power by utilizing at least 30% of the roof top area 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.

VI. Waste Management

- i) 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.
- ii) 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.
- iii) 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.
- iv) Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed for treatment and disposal of the waste.
- v) All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
- vi) 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.
- vii) 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.

- viii) 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.
- ix) Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
- x) 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.

VII. Green Cover

- i) 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).
- ii) At least single line plantation all around the boundary of the project as proposed shall be provided. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sqm (@ **350 trees** of native varieties) of total project 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. The plantation should be provided as per SEIAA guidelines.
- iii) 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.
- iv) 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.
- v) The project proponent shall not use any chemical fertilizer /pesticides /insecticides and shall use only Herbal pesticides/insecticides and organic manure in the green area.
- vi) The green belt along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use.

VIII. Transport

- i) 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.
- ii) 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.
- iii) 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.
- iv) Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.

IX. Human health issues

- i) 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.
- ii) For indoor air quality the ventilation provisions as per National Building Code of India.
- iii) Emergency preparedness plan based on the Hazard identification and Risk 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, creche

etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

- iv) Occupational health surveillance of the workers shall be done on a regular basis.
- v) A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Corporate Environment Responsibility

- i) 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. The project proponent shall adhere to the commitments made in the proposal for CER activities for spending at least a minimum amount of Rs. 12 lacs(for expansion project) will be spent under CER activities for activities given as under:
 - The implementation of the CER will be responsibility of partner of the company.
 - Rs 12 lacs will be spend on Government School for providing Computers, Books and Laboratory equipments.
 - It will be started in March 2022 and completed in 2022 only
- ii) 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.
- iii) 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.
- iv) Action plan for implementing EMP and environmental conditions along with the 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 accounts and not to be diverted for any other purpose. The project proponent shall spend the minimum amount of Rs 140.50 Lacs towards the capital cost and Rs 13.90 Lacs/annum towards recurring cost in the construction phase of the project including the environmental monitoring cost and shall spend the minimum amount of Rs 17.40 Lacs/annum towards the recurring cost in operation phase of the project including the environmental monitoring cost. The entire cost of the environmental management plan will continue

to be borne by the project proponent until the responsibility of the environmental management plan is transferred to the occupier/residents society under proper MOU under intimation to SEIAA, Punjab. Year-wise progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-monthly Compliance Report.

XI. Validity

- i) This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier.

XII. Miscellaneous

- i) The project proponent before allowing any occupancy shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab.
- ii) The project proponent shall comply with the conditions of CLU, if obtained.
- iii) 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.
- iv) 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.
- v) 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.
- vi) 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.
- vii) 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.
- viii) 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.
- ix) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

- x) 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.
- xi) 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).
- xii) 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.
- xiii) The SEIAA/Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiv) The SEIAA/ Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xv) The Regional Office of this Ministry and Punjab Pollution Control Board 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.
- xvi) 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.
- xvii) 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.

Annexure I

A. Specific conditions:

- (i) The environmental clearance will be valid for a period of seven years from the date of issuance, as per the provisions of the EIA Notification, 2006 as amended subsequently, for mining of minor minerals in the above said location and Khasra numbers.
- (ii) The project proponent shall demarcate the mining lease area in the presence of Lambardar of the village, project proponent/ contractor, owner of the land and owner of the adjoining land, revenue officer & Mining Officer, etc. Mining lease area will be demarcated on the ground with pucca pillars with reference to some permanent benchmark before starting any mining activity at site.
- (iii) Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.
- (iv) Mining shall be carried out only by the manual method. No semi- mechanized or mechanized method of mining has been allowed as proposed in the mining plan.
- (v) Mining shall be as per the approved Development/Mining Plan prepared for this project and as per the Mines & Mineral (Development & Regulation) Act, 1957 and rules framed there under as amended from time to time, other Acts/rules related with mining of minor minerals.
- (vi) The mining activity shall be carried out strictly as per guidelines contained in the Sustainable Sand Mining Management Guidelines 2016 and provisions made in the Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by MoEF&CC, New Delhi as amended from time to time and guidelines issued by Geological Survey of India.
- (vii) The mining operation will be carried out only from sun-rise to sunset.
- (viii) The project proponent shall earmark at least two tubewells/ borewells/ wells as observation wells in the adjoining area within a radius of 500m of the project site and monthly monitoring of the depth is to be carried out. District Mining Officer is to monitor the same.
- (ix) The project proponent shall obtain Consent to Establish and Consent to Operate from the Punjab Pollution Control Board and effectively implement all the conditions stipulated therein.
- (x) The project proponent shall observe the mining site after every 15 days and in case, a Schedule-I or Schedule-II species as per Wildlife Act or any rare or endangered species are reported, the Mining Officer will get a conservation plan prepared in consultation with the Department of Wildlife and ensure its implementation.
- (xi) The mining of minor mineral (sand) shall be carried out only up to a depth of 2.4 m as proposed in the approved mining plan or above the groundwater level, whichever is less.

- (xii) The mining shall be carried out by the contractor/lessor as per the EMP prepared and development / mining plan prepared as per the Mines & Mineral (Development & Regulation) Act, 1957 / other Acts/Rules related with mining of minor minerals. It shall be ensured that no mining shall be carried out during the monsoon season as defined by the Meteorological Department.
- (xiii) The Project Proponent and Mining Officer shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
- (xiv) The project proponent shall undertake plantation/afforestation work by planting the native species in the nearby area adjacent to mine lease.
- (xv) The project proponent shall ensure that 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. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Ministry of Environment & Forests/Punjab Pollution Control Board in this regard.
- (xvi) The project proponent shall undertake adequate safeguard measures during extraction of sand and ensure that due to this activity, the hydro-geological and ecological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing wells, if any, and installing new piezometers during the mining operation.
- (xvii) The periodic monitoring [(at least four times in a year- pre-monsoon (April May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office at Chandigarh, the Central Ground Water Authority, the Regional Director, Central Ground Water Board; SEIAA, Punjab and Punjab Pollution Control Board. If at any stage, it is observed that the groundwater table is getting depleted or rising due to the mining activity, necessary corrective measures shall be carried out.
- (xviii) The project proponent shall obtain necessary prior permission of the competent authorities/CGWA for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xix) In case, mining site falls in the notified block declared by the CGWA, the project proponent shall obtain necessary prior permission for drawl of requisite quantity of water for domestic purposes from District Advisory Committee (DAC) and only treated waste water will be used for dust suppression activities.
- (xx) Adequate numbers (not less than 100) of tree shall be planted, protected, maintained and established in vacant area in the village near to the mining site.
- (xxi) Appropriate mitigation measures shall be taken by the project proponent to prevent pollution at the mining site in consultation with the Punjab Pollution Control Board. It shall be ensured that there is no leakage of oil and grease at the mining site from the vehicles/mining equipment's used for transportation.

- (xxii) Vehicular emissions shall be kept under control and regularly monitored. The project proponent shall ensure that, as far as possible, the transportation route will be away from the habitation area and will not pass through any village. The transportation hours of mined material shall be restricted to non-peak hours only.
- (xxiii) The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. All the public roads as well as approach roads shall be maintained and it shall be ensured that tippers carrying mined material are not loaded beyond the permissible load as per designed load bearing capacity of the road. Moreover, provision of sufficient funds shall be made in the budget for the proper maintenance of the roads.
- (xxiv) Mineral handling area shall be provided with the adequate number of dust suppression systems. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- (xxv) A First Aid Room shall be provided in the project both during construction and operations of the project.
- (xxvi) 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.
- (xxvii) Provision shall be made for the housing of workers, if residing at site, 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. In case of non-residential/daily workers, provision of adequate bath rooms, mobile toilets, and mobile STP shall be made to avoid open defecation and treated domestic effluent shall be discharged onto land for plantation.
- (xxviii) The municipal solid waste generated shall be disposed of as per Solid Waste Management Rules, 2016. Segregation of bio-degradable and non-biodegradable wastes shall be done at site and disposed of as per provisions of Solid Waste Management Rules. Dustbins will be provided at site and the workers will be guided to put the domestic waste and plastic carry bags etc. if any, in the dustbin. No littering will be permitted at the site as well as in the vicinity.
- (xxix) The critical parameters such as RSPM (Particulate matter with size less than 10 microns i.e., PM10) and NO in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH, Faecal Coliform and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA. II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.
- (xxx) The project proponent shall take all precautionary measures during mining operation for conservation and protection of rare and endangered flora & fauna

found in the study area. Action plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to this project site shall be effectively implemented. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Regional Office of the Ministry of Environment and Forests, Chandigarh and SEIAA, Punjab.

- (xxxix) 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 (CER). The project proponent shall adhere to the commitments made in the proposal for CER that an amount of Rs 40,000/- will be spent for installation of 1KW Solar Power Mini Station at Government Elementary School, village Awan Vasau within 1st year of grant of environmental Clearance.
- (xxxixii) Vehicles hired to be used for transportation of mined material should be in good condition and should conform to applicable air and noise emission standards as provided in the Vehicular Act.
- (xxxixiii) Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.
- (xxxixiv) The Risk assessment and disaster management plan should be prepared.
- (xxxixv) The project proponent shall submit the site plan showing the earmarked area for storage of mined material.
- (xxxixvi) No mining operation shall be carried out at any point within 75 m of railway line, 60 m from national highway, 50 m from HT line/any public works/reservoirs, tanks/canal/public roads and buildings or inhabited or 10 m of outer edge of any village road. A safety barrier of 7.5m width shall be left intact around the mine lease boundary.
- (xxxixvii) The project proponent shall ensure the implementation of the post closure mining plan as proposed by the project proponent in the mining plan.
- (xxxixviii) The project proponent shall comply with the condition imposed by District Forest Officer (DFO) while granting NOC.
- (xxxixix) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

B. General Conditions:

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forests & Climate Change.
- (ii) No change in the calendar plan including excavation, quantum of mineral sand/gravel (minor mineral) and waste should be made.

- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM) and NO_x monitoring. 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 Punjab Pollution Control Board.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NO_x should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Chandigarh and the Punjab Pollution Control Board / Central Pollution Control Board once in six months and SEIAA, Punjab.
- (v) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- (vi) 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.
- (vii) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (viii) 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 Ministry of Environment and Forests and its Regional Office located at Chandigarh and SEIAA, Punjab.
- (ix) The project proponent should inform to the Regional Office of the Ministry of Environment & Forests located at Chandigarh and SEIAA, Punjab regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (x) The Regional Office of Ministry of Environment & Forests located at Chandigarh and Punjab Pollution Control Board 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.
- (xi) 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 copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Chandigarh, the respective Zonal Office of Central Pollution Control Board and the Punjab Pollution Control Board and SEIAA, Punjab. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Chandigarh, the

respective Zonal Office of Central Pollution Control Board and the Punjab Pollution Control Board and SEIAA, Punjab.

- (xii) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ 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.
- (xiii) The Project Proponent should display a copy of the clearance letter at the Regional office, District Industries Centre and the Collector’s office/ Tehsildar’s office.
- (xiv) The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the concerned Punjab 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 Regional Office of the Ministry of Environment and Forests, Chandigarh and SEIAA, Punjab by e-mail.
- (xv) 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. The project proponent shall adhere to the commitments made in the Environment Management Plan and Corporate Social Responsibility.
- (xvi) The project proponent should 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 Punjab Pollution Control Board and also at web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of Ministry of Environment & Forests at Chandigarh and SEIAA, Punjab.
- (xvii) The Ministry of Environment, Forests & Climate Change and SEIAA, Punjab or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- (xviii) The SEIAA may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, it is found/ come to the knowledge of the SEIAA that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
- (xix) The project proponent shall get the micro chemical analysis of the mined material done from an approved laboratory once in a year and shall submit the analysis results to the Ministry of Environment & Forests/Punjab Pollution Control Board and SEIAA, Punjab.
- (xx) The project proponent shall ensure that the contractor shall engage people of local area for mining purpose as far as possible, so as to have opportunities of employment for them.

- (xxi) The project proponent may apply for transfer of environmental clearance under EIA notification dated 14.09.2006 to the other contractor finalized by the Department of Industries & Commerce to SEIAA, Punjab. However, no activity shall be undertaken by the contractor till the environmental clearance is transferred in his name and he is lawfully bound to comply with the conditions of the environmental clearance.
- (xxii) The monitoring of the mining project in respect of Environment Management shall be carried out by the State/District Level Environment Management Cells constituted by the Govt. of Punjab vide notifications dated 03.12.2012.
- (xxiii) Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under.

A. Specific conditions:

- (i) The environmental clearance will be valid for a period of seven years from the date of issuance, as per the provisions of the EIA Notification, 2006 as amended subsequently, for mining of minor minerals in the above said location and khasra numbers.
- (ii) The project proponent shall demarcate the mining lease area in the presence of revenue authorities and concerned Village Panchayat or their representatives. Mining lease area will be demarcated on the ground with pucca pillars with reference to some permanent bench mark before starting any mining activity at site.
- (iii) Mining shall be as per the approved Development/Mining Plan prepared for this project and as per the Mines & Mineral (Development & Regulation) Act, 1957 and rules framed there under as amended from time to time, other Acts/rules related with mining of minor minerals.
- (iv) The mining activity shall be carried out strictly as per guidelines contained in the Sustainable Sand Mining Management Guidelines 2016 and provisions made in the Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by MoEF&CC, New Delhi as amended from time to time and guidelines issued by Geological Survey of India.
- (v) The project proponent shall adopt and follow the procedure for monitoring of sand mining as given in the Appendix-xii of Notification No. S.O. 141 (E) dated 15.01.2016 issued by MoEF & CC for streamlining the process of environmental clearance for mining of minor mineral.
- (vi) The project proponent shall obtain Consent to Establish and Consent to Operate from the Punjab Pollution Control Board and effectively implement all the conditions stipulated therein.
- (vii) The project proponent shall observe the mining site after every 15 days and in case, a Schedule-I or Schedule-II species as per Wildlife Act or any rare or endangered species are reported, the Mining Officer will get a conservation plan prepared in consultation with the Department of Wildlife and ensure its implementation.
- (viii) The mining of minor mineral (sand) shall be carried out only upto a depth of 3.0 m of the demarcated riverbed level or above the groundwater level, whichever is less.
- (ix) The Mining Officer shall ensure that the mining shall be carried out by the contractor/lessor as per the EMP prepared and development / mining plan prepared as per the Mines & Mineral (Development & Regulation) Act, 1957 / other Acts/Rules related with mining of minor minerals. It shall be ensured that no mining shall be carried out during the monsoon season as defined by the Meteorological Department.
- (x) The Mining Officer shall ensure that wherever deployment of labour attracts the Mines Act, the provision thereof shall be strictly followed.
- (xi) The project proponent shall undertake plantation/afforestation work by planting the native species in the nearby area adjacent to mine lease.
- (xii) The project proponent shall ensure that 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. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Ministry of Environment & Forests/Punjab Pollution Control Board in this regard.

- (xiii) The project proponent shall undertake adequate safeguard measures during extraction of sand and ensure that due to this activity, the hydro-geological and ecological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area by establishing a network of existing wells, if any, and installing new piezometers during the mining operation.
- (xiv) The periodic monitoring [(at least four times in a year- pre-monsoon (April May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office at Chandigarh, the Central Ground Water Authority, the Regional Director, Central Ground Water Board; SEIAA, Punjab and Punjab Pollution Control Board. If at any stage, it is observed that the groundwater table is getting depleted or rising due to the mining activity, necessary corrective measures shall be carried out.
- (xv) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and groundwater), if any, required for the project.
- (xvi) Appropriate mitigation measures shall be taken by the project proponent to prevent pollution at the mining site in consultation with the State Pollution Control Board. It shall be ensured that there is no leakage of oil and grease at the mining site from the vehicles/mining equipments used for transportation.
- (xvii) Vehicular emissions shall be kept under control and regularly monitored. The project proponent shall ensure that, as far as possible, the transportation route will be away from the habitation area and will not pass through any village. The transportation hours of mined material shall be restricted to non-peak hours only.
- (xviii) The mineral transportation shall be carried out through the covered trucks only and the vehicles carrying the mineral shall not be overloaded. All the public roads as well as approach roads shall be maintained by the Department and it shall be ensured that tippers carrying mined material are not loaded beyond the permissible load as per designed load bearing capacity of the road. Moreover, provision of sufficient funds shall be made in the budget for the proper maintenance of the roads.
- (xix) Mining shall be carried out only by semi-mechanized opencast method with the help of machinery as specified in the mining plan.
- (xx) Mineral handling area shall be provided with the adequate number of dust suppression systems. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- (xxi) 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.
- (xxii) Provision shall be made for the housing of workers, if residing at site, 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. In case of non-residential/daily workers, provision of adequate bath rooms, mobile toilets, and mobile STP shall be made to avoid open defecation and treated domestic effluent shall be discharged onto land for plantation.

- (xxiii) The municipal solid waste generated shall be disposed off as per Solid Waste Management Rules, 2016. Segregation of bio-degradable and non-biodegradable wastes shall be done at site and disposed off as per provisions of Solid Waste Management Rules. Dustbins will be provided at site and the workers will be guided to put the domestic waste and plastic carry bags etc. if any, in the dustbin. No littering will be permitted at the site as well as in the vicinity.
- (xxiv) The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e., PM10) and NO in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH, Faecal Coliform and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA. II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.
- (xxv) The project proponent shall take all precautionary measures during mining operation for conservation and protection of rare and endangered flora & fauna found in the study area. Action plan for conservation of flora and fauna shall be prepared in consultation with the State Forest and Wildlife Department. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to this project site shall be effectively implemented. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Regional Office of the Ministry of Environment and Forests, Chandigarh and SEIAA, Punjab.
- (xxvi) The project proponent shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/ conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance of EC conditions and (iii) System of reporting of non compliance/violation of environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- (xxvii) Vehicles hired to be used for transportation of mined material should be in good condition and should conform to applicable air and noise emission standards as provided in the Vehicular Act.
- (xxviii) Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.
- (xxix) The Risk assessment and disaster management plan should be prepared.
- (xxx) The project proponent shall submit the site plan showing the earmarked area for storage of mined material.

- (xxxi) No mining operation shall be carried out at any point within 75 m of railway line, 60 m from national highway, 50 m from HT line/any public works/reservoirs, tanks/canal/public roads and buildings or inhabited or 10 m of outer edge of any village road. A safety barrier of 7.5m width shall be left intact around the mine lease boundary.
- (xxxii) The project proponent shall ensure the implementation of the post closure mining plan as proposed by the project proponent in the mining plan.
- (xxxiii) The project proponent shall comply with the condition imposed by DFO Ludhiana while granting NOC.
- (xxxiv) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

B. General Conditions:

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forests & Climate Change.
- (ii) No change in the calendar plan including excavation, quantum of mineral sand/gravel (minor mineral) and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM) and NO_x monitoring. 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.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NO_x should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Chandigarh and the Punjab Pollution Control Board / Central Pollution Control Board once in six months and SEIAA, Punjab.
- (v) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- (vi) 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.
- (vii) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (viii) 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 Ministry of Environment and Forests and its Regional Office located at Chandigarh and SEIAA, Punjab.
- (ix) The project proponent should inform to the Regional Office of the Ministry of Environment & Forests located at Chandigarh and SEIAA, Punjab regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

- (x) The Regional Office of Ministry of Environment & Forests located at Chandigarh and Punjab Pollution Control Board 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.
- (xi) 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 copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Chandigarh, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board and SEIAA, Punjab. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Chandigarh, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board and SEIAA, Punjab.
- (xii) A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ 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.
- (xiii) The Punjab Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industries Centre and the Collector’s office/ Tehsildar’s office.
- (xiv) The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the concerned Punjab 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 Regional Office of the Ministry of Environment and Forests, Chandigarh and SEIAA, Punjab by e-mail.
- (xv) The project proponent shall adhere to the commitments made in the Environment Management Plan and Corporate Social Responsibility.
- (xvi) The project proponent should 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 Punjab Pollution Control Board and also at web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of Ministry of Environment & Forests at Chandigarh and SEIAA, Punjab.
- (xvii) The Ministry of Environment, Forests & Climate Change and SEIAA, Punjab or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- (xviii) The SEIAA may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, it is found/ come to the knowledge of the SEIAA that the project proponent has deliberately concealed and/or submitted false or

misleading information or inadequate data for obtaining the environmental clearance.

- (xix) The project proponent shall get the micro chemical analysis of the mined material done from an approved laboratory once in a year and shall submit the analysis results to the Ministry of Environment & Forests/Punjab Pollution Control Board and SEIAA, Punjab.
- (xx) The project proponent shall ensure that the contractor shall engage people of local area for mining purpose as far as possible, so as to have opportunities of employment for them.
- (xxi) The project proponent may apply for transfer of environmental clearance under EIA notification dated 14.09.2006 to the contractor finalized by the Department of Industries & Commerce to SEIAA, Punjab. However, no activity shall be undertaken by the contractor till the environmental clearance is transferred in his name and he is lawfully bound to comply with the conditions of the environmental clearance.
- (xxii) The monitoring of the mining project in respect of Environment Management shall be carried out by the State/District Level Environment Management Cells constituted by the Govt. of Punjab vide notifications dated 03.12.2012.
- (xxiii) Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under.

Standard Terms of Reference (TOR) for Mining Project

- 1) Submit dully filled checklist with the application of environmental clearance.
- 2) Deposit the requisite fee as per Notification No. 10/167/2013-STE(5)/1510178 dated 27.06.2019 issued by the Govt. of Punjab, Department of Science, Technology, and Environment
- 3) Project Proponent is required to conduct public hearing in light of the OM dated 12.12.2018 issued by MoEF. The draft EIA-EMP report shall be submitted to the Punjab Pollution Control Board of the concerned State for the conduct of Public Hearing. The PPCB shall conduct the Public Hearing/public consultation, district-wise, as per the provisions of EIA notification,2006. The Public Hearing shall be chaired by an Officer, not below the rank of Additional District Magistrate.
- 4) Submission of Final District survey report, containing apart from other details as mentioned in the guidelines of 2016, specifically including the following points:
 - a) Recommendation regarding Environmentally safe depth of mining, safe distance from banks and suitability of site for mining or prohibition thereof, duly signed by the members of the Sub Divisional Committee comprising of Sub-Divisional Magistrate, Officers from Irrigation Department, State Pollution Control Board or Committee, Forest department, Geology or mining officer.
 - b) Replenishment study for the river bed cases.
- 5) Proper justification of use of semi-mechanized/mechanized method, if any, over the manual method of mining considering the location, thickness of sand deposition, agriculture land/river bed, with detailed calculations and benefits to be achieved for the Environment. Because as per Standard EC conditions provided in the Guidelines, 2016, manual method of mining shall be preferred over any other method.
- 6) The Project proponent shall provide the exact coordinates of all the corners of the site and the shortest distance of mining site from the followings: -
 - a. Protected area notified under the Wildlife (Protection) Act, 1972.
 - b. Critically Polluted areas as identified by the Central Pollution Control Board from time to time,
 - c. Eco-sensitive areas as notified under section 3 of the Environment (Protection) Act, 1986,
 - d. Inter-State boundaries and international boundaries.
- 5) *Submit a copy of visit report of Sub Divisional committee comprising of Sub-Divisional Magistrate, Officers from Irrigation Department, State Pollution Control Board or Committee, Forest department, Geology or mining officer indicating the recommendation regarding the Environmentally safe depth of mining, a safe distance from banks and suitability of the site for mining or prohibition thereof as*

per the Sustainable Sand Mining Management Guidelines, (SSMMG)-2016 issued by MOEF&CC.

- 6) *Demarcation of the mining site in the presence of the Revenue officer, Mining officer, Lambardar, project proponent/ contractor, owner of the land and owners of the adjoining land and submission of the demarcation report duly signed by them.*
- 9) *Submit complete transportation plan giving detailed procedure (details of route plan to be followed by trucks transporting minor minerals with traffic volume data etc.)*
- 10) Submit a copy of ownership of land such as copy of latest jamabandi and consent of all the owner of land.
- 11) A copy of Mining Plan dully approved by the State Geologist
- 12) Submit the contour plan showing river bed level, water level and present surface levels at various cross sections etc.
- 13) Red line to be marked on the x-sections in case riverbed mining.
- 14) Submit 1.0 Km radius map of the area from periphery of project site clearly indicating the physical features.
- 15) Submit an undertaking to the effect that there is no other mine within 500 m. radius from the periphery of this site.
- 16) Submit photographs of the mining site taken from all the four sides mentioning the coordinates of the project.
- 17) Mining lay out plan showing key distances of the mining site from the various features such as river bank, active channels, bundh and other structures in the vicinity, if any, drawn on portion of 'Aks Sajra' of the mining site, so as to ensure that minimum statutory distances are maintained. The route map to be followed should also be marked on the layout plan.
- 18) Submit Corporate Environment Responsibility (CER) Plan as per the OM dated 01.05.2018
- 19) The project proponent is required to get the hydrogeological survey of the existing water level done and to submit the impact on the water level regime due to the project. This report is required to be submitted at the time of submission of the EIA report.
- 20) The project proponent shall submit site specific rain water harvesting details at the time of submission of EIA report.
- 21) The project proponent is required to submit a report regarding the preservation of topsoil excavated during the mining process at the time of submission of the EIA report.

- 22) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 23) Submit a copy of the document in support of the fact that the Proponent is the rightful lessee of the mine such as letter of Intent (LOI) from the State government /Allotment letter of mining site etc.
- 24) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 25) All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 26) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 27) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 28) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the proposed safeguard measures in each case should also be provided.
- 29) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining should be detailed. The proposed safeguard measures in each case should also be provided.
- 30) The study area will comprise of 10 km zone around the mine lease from lease

periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

- 31) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 32) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 33) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 34) Status of forestry clearance for the broken-up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 35) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 36) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.
- 37) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 38) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 39) A detailed biological study of the study area [core zone and buffer zone (10 km

radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

- 40) Proximity to Areas declared as 'Critically Polluted' or the Project areas attracting court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.
- 41) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
- 42) One season (non-monsoon) [i.e. March - May (Summer Season); October - December (post monsoon season); December - February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
- 43) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 44) The water requirement for the Project, its availability, source and zone should

be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

- 45) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 46) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 47) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 48) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 49) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be.
- 50) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and BGL. A schematic diagram may also be provided for the same.
- 51) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 52) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

- 53) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 54) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 55) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 56) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 57) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 58) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 59) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 60) Submit an undertaking to the effect that no litigation/court case is pending before any court of law against the project and/or on land in which mining is to be carried out else submit the details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 61) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 62) A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.
- 63) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 64) Besides the above, the below mentioned general points are also to be followed:
 - a. The EIA document shall be printed on both sides, as for as possible.

- b. All documents to be properly referenced with index and continuous page numbering.
 - c. The copy of the letter received from the Ministry / SEIAA shall be also attached as an annexure to the final EIA-EMP Report.
 - d. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - e. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - f. Where the documents provided are in a language other than English, an English translation should be provided.
 - g. The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - h. While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J- 11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - i. Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - j. As per the circular no. J-11011/618/2010-IA. II (I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
 - k. The EIA report should also include
 - (i) surface plan of the area indicating contours of main topographic features, drainage and mining area,
 - (ii) geological maps and sections and
 - (iii) Sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.
 - l. Submit a copy of presentation in PPT format along with application.
- 65) The 'Terms of Reference' (TORs) prescribed will be valid for a period of three

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years from its issuance. The final EIA report shall be submitted to the SEIAA,
Punjab for obtaining environmental clearance.

The meeting ended with a vote of thanks to the Chair.
