Item No. 254.13:

Application for Environmental Clearance for carrying out mining of minor minerals (sand at Village Kannian Hussaini, Tehsil Jagraon, District Ludhiana, Punjab by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resource Department, Ludhiana. (Proposal No. SIA/PB/MIN/421911/2023)

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resource Department, Ludhiana Division has applied for obtaining Environmental Clearance under category B2 and 1(a) of the schedule appended with the EIA Notification dated 14.09.2006 for carrying out mining of minor minerals at the mining site of Village Kannian Hussaini (River bed), Tehsil Jagraon, District Ludhiana.

The Department has deposited requisite fee of Rs. 9740/- dated 03.03.2023 for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & depositing of the requisite fee by the applicant has been checked & verified by the supporting staff of SEIAA. The Mining Plan was approved by Assistant Geologist, Punjab vide letter No. Glg/PB/M.P./ Kanian Hussaini /463 dated 06.02.2023.

Deliberations during 254th meeting of SEAC held on 08.08.2023.

The meeting was attended by the following:

- (i) Mr. Paras Mahajan, Assistant State Geologist.
- (ii) Mr. Harjinder Singh, Mining Officer, Drainage-cum-Mining & Geology Division, Water Resources Department, Ludhiana.
- (iii) Smt. Harmanpreet Kaur, Environmental Consultant, M/s Eco Paryavaran Laboratory ltd.

Summary of the case is as under:

i)	Name	of	Applicant	&	SANDEEP SINGH MANGAT
	Correspon	dence a	ddress:		XEN/DMO, Near Durga Mata Mandir,
					Urban Estate, Phase-1, Dugri,
					Ludhiana:7047900005
	Mobile No	:			ee.drg.ldh@punjab.gov.in
	Email ID:				
ii)	Name	of	Environme	ental	Eco Paryavaran Laboratories & Consultants
	Consultant	t			Pvt. Ltd. (formerly Eco Laboratories &
					Consultants Pvt. Ltd.)
					8872043178
	Mobile No				md@ecoparyavarn.org
	Email ID				
iii)	Online Pro	posal N	0.		SIA/PB/MIN/421911/2023
iv)	Project Na	me & Lo	cation		Application for Environmental Clearance of
					Sand Mining Project, (Total Area- 4.87 Ha.)
					Village- Kannian Hussaini

		Tehsil- Sidhwan Bet
		District- Ludhiana, State Punjab
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals

1.0 The details of the mining project are as under:

S.No.	Item		Details	
a.	Category of the Project as p	er B2		
	the EIA notification date	ed		
	14.09.2006			
b.	Hadbast No. of the Village	180		
c.	Details of Khasra No. as unde	r:		
	Khasra No. as per	Khasra No. as	Khasra No. as	Name of owner
	proposal	per DSR	per consent	of the land as per
			of land	land NOC
	• 33//11, 12, 13, 14,	Sand bar code	• 33//20	Nishan Singh
	15, 16, 17, 18, 19, 20, 22, 23, 24, 25	PO_LD_SB_ST_95	• 34//21,22	
	22, 23, 24, 23	and		Kesh singh
	• 34//8, 9, 10, 11,	PO_LD_SB_ST_96 mentioned in the		Kesii siligii
	12, 13, 14, 15, 16, 17,			
	18,19,20,21,22	DSR. However, no khasra no		
		khasra No. have		
	• 35//11, 20	been mentioned.		
		been memorieu.		
	• 40//2			
	,			
d.	Whether the mining area is	No		
	less than area mentioned in			
	the DSR,(If yes) the			
	proposed mining area shall			
	be earmarked in the KML			
	file with different color.			
d.1	(i) Area & Quantity	(i) 4.87 Ha an	d 1,37,700 MT (4	5900 TPA)
	details as per Mining			
	plan and proposal			

	, ,	d permissible details as per	(ii) 4.45 Ha and	l 151959 MT (91175.76 MT as per				
е	Longitude &	Longitude & Latitude of the mining site						
	PIT-I							
	Pillar No.		Latitude	Longitude				
	1	30	0°58'31.55"N	75°25'42.64"E				
	2	30)°58'31.51"N	75°25'50.55"E				
	3	30)°58'31.83"N	75°25'51.68"E				
	4	30)°58'31.57"N	75°25'52.55"E				
	5	30	0°58'30.70"N	75°25'53.01"E				
	6	30)°58'30.17"N	75°25'53.98"E				
	7	30)°58'29.50"N	75°25'57.83"E				
	8	30)°58'27.22"N	75°25'45.11"E				
	9	30)°58'28.96"N	75°25'44.51"E				
	PIT-II							
	1		30°58'33.32"N	75°25'55.80"E				
	2		30°58'33.76"N	75°25'57.11"E				
	3	30°58'32.88"N		75°26'2.80"E				
	4		30°58'31.35"N	75°26'7.67"E				
	5	30°58'30.92"N		75°26'7.79"E				
	6		30°58'30.65"N	75°26'7.02"E				
	7		30°58'30.79"N	75°26'5.96"E				

	8		30°58'3	0.81"	N		7.	5°25'59.7(6"E	
	9		30°58'31.75"N			75°25'57.71"E				
f.	Details of cluster format	ion	There is		cluster	for	mation	, cluster	letter	is
g.	Affidavit from the owner giving consencarrying out mining. (In of Pvt land)	Submitte	d.							
h.	Whether demarcation/erection boundary pillars on the has been done.	of e site	Submitted.							
i.	Status of clearance Forest Conservation 1980, Wildlife Protection 1972 as the case may be	A copy of certificate issued by DFO, Phillaur submitted wherein it has been mentioned that the Village Kannian Hussaini, Tehsil Jagraon, District Ludhiana (PO_LD_SB_ST_95 and PO_LD_SB_ST_96) does not include in the area notified under Wildlife Protection Act, 1972, Punjab Wildlife Preservation Act, 1959 and does not have any sanctuary and conservation reserve.								
j.	Salient features of ap mining plans	proved	Glg/PB/M.P./ Kanian Hussaini /463 dated 06.02.2023							
k.	Method of mining		Manual							
I.	No. of workers on the when fully operational		21							
m.	Total water requireme domestic and other us and its source	al water requirement for nestic and other usage		Domestic: 1.00 KLD Dust Suppression: 1.50 KLD Green Belt: 0.8 (recycled) Total:2.50 KLD						
n.	Waste water generation its disposal	n and	Mobile	Mobile toilet with Septic tank followed by Soak pit.						
0.	truck/trollies per da	y for avated oforma								

	transportation route with	
	proper earmarking of katcha,	
	pakka road and ROW.	
p.	Activities to be undertaken	Submitted.
	under EMP along with its cost.	
q.	Whether any Litigation is	No litigation is pending against the proposed mining
	pending against the proposed	site Self-Declaration certificate submitted.
	mining site, if yes the details,	
	thereof, be provided.	

i)	The Department shall provide details pertaining to No. of trees, if any, to be felled for carrying out mining activity.	
ii)	The Department shall earmark, on the KML file, the distance from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	Distance from nearest habitation is 1095m. The same has been incorporated in the KML file and will be presented before the committee.
iii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Nearest bridge is at a distance of 5 Km(Sidhwan Mehatpur Bridge)
iv)	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest	The proposed mining site does not include in a cluster. Distance from the nearest mining site Village- Baghia, Kanian Hussaini & Hayatewal (PO_LD_LD2_ST_97_98_99_100_101) Sand mine 982 m

	mining site.	towar	ds W			
v)	The Department shall outline the environmental impact of the mining operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts	The key impact areas for mining operations are: Air, land, water, noise etc. Impacts identified for the said mining site along with the proposed mitigation measures are enclosed in EMP submitted.				
vi)	The Department/Project Proponent shall include in the EMP, the additional environmental activities to be undertaken by incurring		Description	Total cost to be incurred(Rs.)		
	expenditure @ Rs. 0.50/ton of the total quantity permitted for mining in ECs in case of manual mining and @ Rs. 1.50/ton in case of semimechanized mining. Any of the following additional environmental activities may be undertaken as a part of EMP:	1.	Water Sprinkling Measures to be done on haul road to suppress dust & Haul Road and other Roads Repair and maintenance	1,90,000		
		2.	Plantation and maintenance of 190 saplings through State Forest Department under Green Punjab Mission: Plantation cost 4.87 Ha x 50 saplings/Ha= nearly 246 saplings @ Rs.1000 per sapling.	2,46,000		
		3.	Septic tank & Mobile toilets and Solid Waste Management	65,000		
		4.	Additional Environmental activities (Rs. 0.5 per MT of Total quantity= 1,37,700*0.5)	68,850		
		5.	Safety equipment's such as gloves, mask, helmet, First	44,100		

	aid kit etc.	
	TOTAL	6,13,950

During meeting, the Project Proponent apprised the Committee that Mining Plan of the proposed site is required to be amended as one of the land owners has refused to give consent of the land. A request letter submitted by DMO, Ludhiana in this regard has taken on record.

After deliberations, SEAC decided to defer the case till the revised proposal is submitted by the Project Proponent.

Item No. 254.14:

Application for Environmental Clearance for carrying out mining of minor minerals sand at Village ADB Rail, Tehsil Balachaur, District SBS Nagar, Punjab by Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resource Department, SBS Nagar. (Proposal No. SIA/PB/MIN/423181/2023)

The Executive Engineer cum District Mining Officer, Drainage-cum-Mining & Geology Division, Water Resource Department, SBS Nagar Division has applied for obtaining Environmental Clearance under category B2 and 1(a) of the schedule appended with the EIA Notification dated 14.09.2006 for carrying out mining of minor minerals at the mining site of Village ADB Rail, Tehsil Balachaur, District SBS Nagar (River-bed).

The Department has deposited requsite fee of Rs. 7740/- vide Transaction No. CMS/001171558511 dated 23.03.2023 for obtaining Environmental Clearance for carrying out mining in the above mining site. The adequacy & depositing of the requisite fee by the applicant has been checked & verified by the supporting staff of SEIAA. The Mining Plan was approved by Assistant Geologist, Punjab vide letter No. Glg/PB/M.P./ ADB Rail /922 dated 22.03.2023.

Deliberations during 254th meeting of SEAC held on 08.08.2023.

The meeting was attended by the following:

- (i) Mr. Paras Mahajan, Assistant State Geologist.
- (ii) Mr. Gurjit Singh, SDO, Drainage-cum-Mining & Geology Division, Water Resources Department, SBS Nagar.
- (iii) Smt. Harmanpreet Kaur, Environmental Consultant, M/s Eco Paryavaran Laboratory ltd.

SEAC allowed the environmental consultant of the project to present the salient features of the application proposal. Thereafter, the Project Proponent presented as under:

i)	Name of Applicant &	DMO SBS Nagar
	Correspondence address: Mobile No: Email ID:	Executive Engineer/SBS Nagar Drainage cum- Mining and Geology WRD Canal Colony Kapurthala Road, SBS Nagar.
		8950065264
		happy.kumar65@punjab.gov.in
ii)	Name of Environmental Consultant	Eco Paryavaran Laboratories & Consultants Pvt.
	Mobile No.	Ltd.9814003103
	Email ID	md@ecoparyavaran.org
iii)	Online Proposal No.	SIA/PB/MIN/423181/2023
L	1	

iv)	Project Name & Location	Sand Mining Project (Sutlej River Bed Mining, Area – 3.87 Ha.) Village- ADB Rail District- SBS Nagar, Punjab.
v)	Project/activity covered under item of scheduled to the EIA Notification,14.09.2006	1(a) Mining of Minor Minerals

1.0 The details of the mining project are as under:

S.No.	Item		Details	
i.	Category of the Project as p	oer B2		
	the EIA notification dated			
	14.09.2006			
ii.	Hadbast No. of the Village	420		
iii.	Details of Khasra No. as und	der:		
	Khasra No. as Khasr	a No. as	Khasra No. as per	Name of owner of
	per proposal per D	SR	consent of land	the land as per land NOC
	46//17/1, 17/2, Sand 18, 19/1, 19/2, PO_S 20/1, 20/2, 21, and 22/1, 22/2, 23, PO_S 24, 51//2, 3/1. ment 49//15, 16, 17/1, DSR 17/2, 18, 22, 23, recon 24/1, 24/2, 25, Sub-D 50/11/1, 11/2, Comr 20/2, 81//2, 3, report	N_BL_ST_4A N_BL_ST_4B ioned in the and nmended in Divisional mittee	20/2, 21, 22/1, 22/2, 23, 24, 51//2, 3/1. 49//15, 16, 17/1, 17/2, 18, 22, 23,	Smt Ranju Chahal
iv.	Whether the mining area is less than area mentioned in the DSR,(If yes) the propose mining area shall be earmarked in the KML file	n		
	with different color. i. Area & Quantity deta	oils Aroa as	nor Mino Dlan 2 97 Ha	
V.	i. Area & Quantity deta	ans Area as	per Mine Plan – 3.87 Ha	l.

	as per Mining plan and	Quantity as ne	r Annroved Mining	Plan – 51 629 TPA	
	proposal	Quarterly us pe	Quantity as per Approved Mining Plan – 51,629 TPA		
	ii. Area and permissible	Area as per DS	Area as per DSR – 3.87 Ha.		
	quantity details as per	Quantity as per Approved DSR –1,08,669.6 Tonnes			
	DSR	1,00,005.0 Tollines			
vi.	Details as per Mining plan	Approved by: Assistant Geologist, Punjab bearing			
		Letter no Glg/Pb/M. P/ADB Rail/922			
		Date of Approval: 29.05.2023			
		Approved Mining Lease Area: 3.87 Ha. Approved Mining Quantity: 51,629 TPA			
		Depth of Mining (m): 3 m			
vii.	Longitude & Latitude of the	Pillar No.	Latitude	Longitude	
	mining site	PO_SN_BL_ST_4A		A	
		1	30°58'54.11"N	76°26'17.64"E	
		2	30°58'54.87"N	76°26'20.12"E	
		3	30°58'55.04"N	76°26'23.33"E	
		4	30°58'54.73"N	76°26'25.17"E	
		5	30°58'54.10"N	76°26'25.67"E	
		PO_SN_BL_ST_4B			
		1	30°58'42.81"N	76°25'52.46"E	
		2	30°58'45.98"N	76°26'0.51"E	
		3	30°58'47.08"N	76°26'5.34"E	
		4	30°58'43.09"N	76°26'1.16"E	
		5	30°58'41.14"N	76°25'58.61"E	
viii.	Details of cluster formation	No cluster is online	No cluster is formed, cluster letter is Uploaded online		
ix.	Affidavit from the land	Not submitted.			
	owner giving consent for				
	carrying out mining. (In case				
	of Pvt land)				
x.	Whether	Demarcation	done on 03-05	-2023. Copy of	
	demarcation/erection of	demarcation	report Submitted	d as of online	
	boundary pillars on the site	application			
	has been done.				

xi.	Status of clearance under	A copy of the certificate dated 16.12.2022 issued
	Forest Conservation Act,	by DFO, where in it has been mentioned that the
	1980, Wildlife Protection Act	proposed site does not included areas notified
	1972 as the case may be	under Section 4 and 5 of PLPA Act, 1900 and
		Forest land as per revenue record.
xii.	Salient features of approved	Date of approval- 22-03-2023
	mining plans	Total Quantity-51,629 TPA
xiii.	Method of mining	Opencast Manual
xiv.	xiv. No. of workers on the site when 22	
	fully operational	
XV.	Total water requirement for	Domestic: 0.95 KLD
	domestic and other usage and	Dust Suppression: 2.50 KLD
	its source	Plantation: 0.76 KLD(Recycled)
		Total: 3.45 KLD
xvi.	Waste water generation and its	Nil
	disposal	
xvii.	Information regarding nos of	10 Trucks per day
	truck/trollies per day for	Transportation route map submitted.
	carrying the excavated material	
	on the proforma prescribed in	
	the DSR and map showing the	
	transportation route with	
	proper earmarking of katcha,	
	pakka road and ROW.	
xviii.	Activities to be undertaken	Submitted.
	under EMP along with its cost.	
xix.	Whether any Litigation is	No litigation is pending against the proposed mining
	pending against the proposed	site
	mining site, if yes the details,	
	thereof, be provided.	
_	·	

i)	The Department shall provide	No trees would be felled during mining activity
	details pertaining to No. of trees,	
	if any, to be felled for carrying out	
	mining activity.	
ii)	The Department shall earmark,	Distance from nearest habitation is 2.00Km.
	on the KML file, the distance	

	from the habitation area from sand mining site. The Department shall certify that the same is in consonance with the existing guidelines allowing the Department for carrying out the mining near the habitation area.	
ii)	The Department shall earmark, on the KML file, the distance from the minor/major bridges up to the nearest boundary of sand mining site.	Distance from Bridge 5.33 Km towards-EAST
iv)	In case, the proposed mining site does not include in a cluster, the Department shall earmark on the KML file, the distance from the nearest mining site.	Distance from the nearest mining site 1.33 Km towards EAST.
v)	The Department shall outline the environmental impact of the mining operations carried out at site. The Department shall also mention the mitigation measures proposed for mitigating the environmental impacts	Air-The major contribution of air pollution is by excavation, loading, transportation, hauling operation & handling of the mineral. This will lead to momentary rise in the particulate matter (PM10). As such there will be no noticeable impact on air quality. Water- Proposal for mining are given during dry months, therefore water quality will not deteriorate. Noise-Mining is of open cast semi mechanized with deployment of light excavator. Therefore noise level too will not show any significant increase.

During meeting, the Project Proponent presented the KML file by superimposing the proposed site as per the application proposal and as approved in the DSR of District SBS Nagar. As per the said KML file, the proposed area of mining site measuring 3.87 Ha falls within the area of mining site approved in the DSR. The Committee perused the same and was satisfied with it.

Further, the Committee observed that the Project Proponent had not submitted the consent of land of khasra Nos where mining is to be carried out and Committee asked the Project Proponent to submit the same. The Project Proponent accordingly submitted a copy of the

revised consent of the land for khasra Nos 46//17/1, 17/2, 18, 19/1, 19/2, 20/1, 20/2, 21, 22/1, 22/2, 23, 24, 51//2, 3/1. 49//15, 16, 17/1, 17/2, 18, 22, 23, 24/1, 24/2, 25, 50/11/1, 11/2, 20/2, 81//2, 3, 4/1 for the proposed mining site which was further perused by the Committee, and found satisfactory.

The Committee further perused the activities mentioned under EMP and observed that no recurring cost has been mentioned against the activity. The Department submitted the revised EMP with details as under:

S. No.		Total Cost to be Incurred	Recurring
	Description	(in Rs)	cost
1)	Water Sprinkling Measures to be done on haul road to suppress dust including Haul Road and other Roads Repair	3,50,000	50,000
2)	Septic tank & Mobile toilets and Solid Waste	65,000	70,000
3)	Management Safety shoes/ Masks/ Earplugs/First Aid Kit etc.	20,000	20,000
4)	Additional Environmental Responsibilities (Rs. 1.5 per MT of Total quantity= 51629*1.5) and Greenbelt Development (with tree guards)	77,444 1,93,500	1,93,500
	(Plantation cost 3.87 Ha x 50 saplings/Ha= 193.5 saplings @ Rs.1000 per sapling)	(77,444+1,93,500)=2,70,94 4	
	TOTAL	7,05,944	3,33,50 0

The Committee further asked the Department to submit an undertaking duly signed by the DMO to the effect that the khasra Nos mentioned in the application proposal are as per the land NOC and latest jamabandi of Village ADB Rail. The Department agreed to the same and submitted an undertaking in this regard.

After detailed deliberations, SEAC decided to forward the application proposal to SEIAA with recommendation to grant Environment Clearance under EIA Notification dated 14.09.2006 for carrying out mining of minor minerals (sand) in the area of 3.87 Ha for the quantity of 51,629 TPA, which shall not exceed the quantity of 1,08,669.6 Tonnes as per the approved DSR at Village ADB Rail, Tehsil Balachaur, District SBS Nagar subject to the conditions attached as **Annexure-1**.

Specific conditions:

- (i) 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.
- (ii) 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.
- (iii) Mining shall be carried out through semi- mechanized method as proposed in the mining plan.
- (iv) 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.
- (v) The mining activity shall be carried out strictly as per the Sustainable Sand Mining Management Guidelines 2016, the provisions made in Enforcement & Monitoring Guidelines for Sand Mining, 2020 issued by MoEF&CC, New Delhi as amended from time to time and the guidelines issued by the Geological Survey of India.
- (vi) The mining operation will be carried out only from sun-rise to sunset.
- (vii) 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.
- (viii) The project proponent shall obtain Consent to Establish and Consent to Operate from the Punjab Pollution Control Board (PPCB) and effectively implement all the conditions stipulated therein.
- (ix) 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.
- (x) The mining of minor mineral (sand) shall be carried out only up to a depth of 3m as proposed in the approved Mining plan or above the groundwater level, whichever is less.
- (xi) The mining shall be carried out by the contractor/lessor as per the Environment Management Plan 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.

- (xii) The project proponent and Mining officer shall ensure that wherever deployment of labour attracts the Mines Act, the provisions thereof shall be strictly followed.
- (xiii) The project proponent shall undertake plantation/afforestation work by planting native species in the nearby area/ adjacent to the mine lease.
- (xiv) 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 & Climate Change (MoEF&CC) /PPCB in this regard.
- (xv) 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.
- (xvi) The periodic monitoring of groundwater[(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 (CGWA) and the data thus collected may be sent regularly to the MoEF&CC and its Regional office at Chandigarh, CGWA, the Regional Director, Central Ground Water Board; SEIAA, Punjab and PPCB. 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.
- (xvii) 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.
- (xviii) 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 use treated waste water for dust suppression activities.
- (xix) Adequate numbers (as proposed) of trees shall be planted, protected, maintained and established in vacant area in the village near the mining site.
- (xx) Appropriate mitigation measures shall be taken by the project proponent to prevent pollution at the mining site in consultation with the PPCB. It shall be ensured that there is no leakage of oil and grease at the mining site from the vehicles/mining equipment used for transportation.
- (xxi) 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.

- (xxii) 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 the tippers carrying mined material are not loaded beyond the permissible load as per the 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.
- (xxiii) A first aid room shall be provided in the project both during construction and operations of the project.
- (xxiv) 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.
- (xxv) 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 the land for plantation.
- (xxvi) The municipal solid waste generated shall be disposed of as per Solid Waste Management (SWM) Rules 2016. Segregation of bio-degradable and non-biodegradable wastes shall be done at site and disposed of as per provisions of SWM Rules. Dustbins will be provided at site and the workers will be guided to put all the waste in these dustbins. if any, in the dustbin. No littering will be permitted at the site as well as in the vicinity.
- (xxvii) The critical parameters such as Respirable Suspended Particulate Matter(RSPM) (Particulate matter with size less than 10 microns i.e., PM10) and Nitrogen oxides (NOx) in the ambient air within the impact zone shall be monitored periodically. Further, quality of discharged water shall also be monitored [(Total Dissolved Solids(TDS), Dissolved Oxygen(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 MoEF&CC, which is available at www.envfor.nic.in shall also be referred in this regard for its compliance.
- (xxviii) 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 MoEF&CC, Chandigarh and SEIAA, Punjab.

- (xxix) Vehicles hired to be used for transportation of mined material should be in good condition and should conform to the applicable air and noise emission standards as provided in the Motor Vehicles Act,1988.
- (xxx) Ambient noise levels should conform to the prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored.
- (xxxi) The risk assessment and disaster management plan should be prepared.
- (xxxii) The project proponent shall submit the site plan showing the earmarked area for storage of mined material.
- (xxxiii) 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 inhabitations 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.
- (xxxiv) The project proponent shall ensure the implementation of the post-closure mining plan as proposed by the project proponent in the Mining plan.
- (xxxv) The project proponent shall comply with the condition imposed by District Forest Officer (DFO) while granting NOC.

General Conditions:

- (i) No change in mining technology and scope of working should be made without prior approval of the MoEF&CC.
- (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 NOx 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 PPCB.
- (iv) Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM) & NOx should be regularly submitted to the MoEF&CC including its Regional office located at Chandigarh and the PPCB / Central Pollution Control Board (CPCB) once in six months and SEIAA, Punjab.
- (v) Personnel working in dusty areas should wear protective respiratory devices and should 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.

- (vi) 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.
- (vii) 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 MoEF&CC and its Regional office located at Chandigarh and SEIAA, Punjab.
- (viii) The project proponent should inform to the Regional Office of MoEF&CC located at Chandigarh and SEIAA, Punjab regarding the date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (ix) The Regional office of MoEF&CC located at Chandigarh and PPCB 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.
- The project proponent shall submit six-monthly reports on the status of compliance of the stipulated environmental clearance conditions including the results of monitored data (both in hard copies as well as by e-mail) to the MoEF&CC, its Regional office Chandigarh, the respective Zonal Office of CPCB, PPCB, 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 MoEF&CC, Chandigarh, the respective Zonal Office of CPCB and PPCB, and SEIAA, Punjab.
- (xi) 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.
- (xii) 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.
- (xiii) 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 PPCB (as prescribed under the Environment (Protection) Rules, 1986 amended from time to time), shall also be put on the website of the company along with the status of compliance of environmental clearance conditions. In addition, it shall also be sent to the Regional office of the MoEF&CC, Chandigarh and SEIAA, Punjab by e-mail.
- (xiv) The project proponent shall adhere to the commitments made in the Environment Management Plan.
- (xv) 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 environmental clearance letter informing that the project has been accorded Environmental Clearance (EC) and a copy of the clearance

- letter is available with the PPCB and also at web site of MoEF&CC at http://envfor.nic.in and a copy of the same should be forwarded to the Regional office of MoEF&CC at Chandigarh and SEIAA, Punjab.
- (xvi) The MoEF&CC 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.
- (xvii) The SEIAA may cancel the EC granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this EC, 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 EC.
- (xviii) 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 MoEF&CC/PPCB and SEIAA, Punjab.
- (xix) 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.
- (xx) The project proponent may apply for transfer of EC 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 EC is transferred in his name and he is lawfully bound to comply with the conditions of the EC.
- (xxi) 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.
- (xxii) Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days.