Executive Summary of Draft EIA Report

at

Minor Mineral Quarry Cluster (Masonry Stone) Block At

Khasrano.-2610 Min,Area-5.72Ha. Village-Khanmoh,Tehsil-Panthachowk, District- Srinagar, State- J&K.

Schedule,	<i>1(a)i</i> ,
Category	B1
Land/ Plot Area/ Revised Area	5.72 На
Production Capacity	2,00,000MT/ annum
ToR LetterNo.	JKEIAA/2021/410/8096-99,Dated19.06.2023
Lab Used	Ultra Testing & Research Laboratory
Approved By	NABL
Monitoring Period	MarchtoMay2023(Summer Season)

Submittedby

Mr. Gh Ahmad Ahanger S/o Ab Rajak Ahanger (Partner:-Manjoor Ahmad Bhat S/o Mohd Subhan Bhat) Address-Village-Khanmoh, Tehsil- Panthachowck District- Srinagar, State- J&K.

Preparedby



ENGINEERING SERVICES Excellence in Environmental Sustainability

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EIANOTIFICATION2006 APPENDIX III A (SeeParagraphs7)

EXECUTIVESUMMARYOFEIAREPORT

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EXECUTIVESUMMARY

PROJECTDESCRIPTION

Introduction of the Project & Proponent

The proposed project is Minor mineral (River bed material) Mining Project which is proposed by Mr. Gh Ahmad Ahanger. The proponent has applied for mining lease of Minor Mineral Quarry Cluster (Masonry Stone) Block at Khasra no.- 2610 Min, Area- 5.72 Ha. Village- Khanmoh, Tehsil-Panthachowk, District- Srinagar, State- J&Kas per the provisions of EIA Notification 2006. It has been proposed to collect 2,00,000 MT per annum of Minor Mineral Quarry Cluster (Masonry Stone) Block.

Therefore, as per MoEF&CC, GoI O.M. No. L-11011/175/2018-IA-II (M) Dated: 12/12/2018 if a cluster or an individual lease exceeds 5.0 Ha the project is classified as Category – B since the project does not attracts the General Condition.

The mining lease area falls under cluster (if periphery of one lease is within 500 meters of the other lease) which is ≥ 5.0 ha therefore as per MoEF&CC GoI O.M. No. L-11011/175/2018-IA-II (M) Dated: 12/12/2018. It is applied under Cat-B1 and Cluster Certificate is attached as Annexure.

On-line Proposal No.	SIA/JK/MIN/57354	4/2020				
FileNo. Allotted by SEIAA,JK	SEAC/JK/20/385					
Name of Proponent	Mr. Gh. Ahmad Al	hanger S/o Ab Razak Al	nanger			
	(Partner:- Manjoor	Ahmad Bhat S/oMohd	Subhan Bhat			
Full correspondence address of	Village-Khanmoh,	Tehsil- Panthachowk				
proponent	District-Srinagar, S	State-J&K				
Name of Project	Minor Mineral Qua	arry Cluster(Masonry St	one)Block			
Projectlocation (Plot/Khasra/Gate	Khasra No: 2610 N	/lin, Area:5.72 Ha,Villag	ge: Khanmoh,			
No.)	Tehsil: Panthachov	vk, District: Srinagar S	tate: J&k.			
Name of Minor Mineral	Minor Mineral Qua	arry Cluster(Masonry St	one)Block			
Type of Land	State Government	Land				
Landutilization Pattern	The area is barren l	and.				
Sanctioned Lease Area (inHa)	5.72Ha	5.72Ha				
Schedule(asperEIAnotification2006)	1(a)i					
Category of Project	B(1)					
Proposed Production	2,00,000MT/Annu	m(Average Annual Proc	duction)			
MethodofMining	Open Cast,Semi-m	echanized				
Sanctioned Period of Minelease	New Mine, The app	olicant being the high es	tbidder was issued with			
	Letter of Intent (LO	OI) by DGM office vide	letter No.			
	373/MCC/DGM/CQK/16/3520-22Dated:22-08-2017forthe					
	Exploitation for 5 Years.					
Pillar Coordinates	Pillar Latitude Longitude					
	RP	34°04'11.67"N	74°57'41.03"E			
	А	34°04'13.26"N	74°57'44.07"E			

TableNo.11.1:Project Details

_					
	В	34°0	4'15.05"N	74°57'39.44"E	
	С	34°0	4'13.29"N	74°57'36.34"E	
	D	34°04	4'14.19"N	74°57'33.35"E	
	E	34°0	4'11.98"N	74°57'28.19"E	
	F	34°0	4'14.72"N	74°57'26.38"E	
	G	34°04	4'19.22''N	74°57'33.18"E	
	Н	34°0	4'18.21"N	74°57'42.61"E	
Toposheet No	43J/16	-			
Total Geological Reserves	22,16,738M	Г			
Total Mineable Reserves	20,81,877MT				
Proposed Production /year in Mining	2,00,000MT/Annum (Average Annual Production)				
Plan Approval Letter					
Production of mine/day	666.66T/day	,			
No.of Working days	300Days				
Working hours/day	8 hours/day				
No. of Workers	34 Manpowe	er			
No. of vehicles movement / day	67Units(AssumedLoadingCapacity:10Tonnes/Unit)				
Altitude of the Area	TheHighest Point:1875mRL				
	The Lowest Point:1737mRL				
Depth of Mining	8-12(average	· ·			
	(Source:Approve				
Ground Water Level	1.50–2.50m	bgl vb.gov.in/District_Prof	ile/IandK/srinagar	ndf	
Nearest metalled road from site		1d0.35kmawayfi			
Water Requirement	Source	Purpose	Detail	Avg.Demand/	
		T T		Day	
	Portable	Drinking	34workers	0.510KLD	
	Tankers	@15lpcd/wor	$\begin{array}{r} x \ 15 \ \text{lpcd} \\ = 510 \end{array}$		
		ker	= 510 Lit/day		
		Land	570Trees	2.85 KLD	
		reclamation/	x 5 l/day		
		plantation@5	= 2850		
		Lit/Tree (@ 100 trees/	Lit/day		
		Ha)			
		Mine	-	1.0 KLD	
		Operation			
		Dust suppression	HaulRoad Area =	5.67 KLD	
		@1Lit/Sq.m	(810 m)		
			Length v		
			7mWidth_2		
			=5670m)		
			x 1		

			lit/Sq.m = 5670 Lit/day	
		Total	J	10.03KLD
Name of QCI Accredited Consultant	GLOBUS H	Environment Er	ngineering Se	ervices
with QCI No. and period of validity.	Certificate N	No. NABET/EIA	/2124/RA024	45,
	Valid Till A	ugust 24/2024		
Any litigation pending against the	No			
Projector land in any court				
Total Proposed Project Cost	Rs.106.53 L	akhs		
Proposed CER cost	Rs.2.13Lakl	ns(2% of the total H	Project Cost)	
Proposed EMP cost	Rs.28.11La	khs(Haulage Roa	adrepair, Dust	t Suppression,
	Plantation & Environmental Monitoring)			
Length and breadth ofHaul Road	HaulRoadL	ength810mLeng	th&Width7m	
No. of Trees to be Planted	570treeswill	lbe planted		

DESCRIPTIONOFENVIRONMENT

BASE LINE DATA: This section contains the description of baseline studies of the 10 km radius of the area (Core Zone and Buffer Zone) surrounding the mine lease area located at Minor Mineral Quarry Cluster (Masonry Stone) Block at Khasra no.- 2610 Min, Area- 5.72 Ha. Village- Khanmoh, Tehsil- Panthachowk, District- Srinagar, State- J&K. The data collected has been used to understand the existing environment scenario around the proposed mining project against which the potential impacts of the project can be assessed.

Environmental data has been collected in relation to proposed mining for:-

- (a) Air (b) Noise
- (c) Water (d) Soil
- (e) Ecology and Biodiversity (f) Socio-economy

Table11.2:Dase line Environmental Status						
Attribute	Base line status					
Ambient Air Quality	Ambient Air Quality Monitoring reveals that the maximum & minimum					
	concentrations of PM10& PM2.5 for all the 8 AQ monitoring stations were					
	found to be within the prescribed limit of CPCB. As far as the gaseous					
	pollutants SO ₂ and NO ₂ are concerned, the prescribed CPCB limit of					
	80µg/m ³ for residential and rural areas has never been surpassed dat any					
	station.					
Noise Levels	Noise monitoring was carried out at 8 locations. The results of the					
	monitoring program indicated that both the daytime and night time levels					
	of noise were well with in the prescribed limit sof NAAQS, at all the four					
	Locations monitored.					
Water Quality	8 Ground water samples and 2 surface water samples were analyzed and					
	concluded that: The ground water from all sources remains suitable for					
	Drinking purposes as all the constituents are within the limits prescribed by					

Table11.2:Base line Environmental Status

	Drinking water standards by Indian Standards IS:10500.			
Soil Quality	Samples collected from identified location sindicate the soilis sandy Clay,			
	Sandy Clay Loam type and Clayloam type.			
Ecology and Bio-	There are no Ecologically Sensitive Areas present in the study area.			
diversity				
Socio-economy	The implementation of the mining project in the district will throw			
	opportunities to local people for both direct and indirect employment. The			
	study area is still lacking in education, health, housing, water, electricity			
	etc.It is expected that same will improve to agreat extent due to proposed			
	Mining project and as associated industrial and business activities.			

Table11.3ENVIRONMENTALMONITORING

PARAMETERS		DESCRIPTION					
Ambient Air	✤ PM10–58.41(Min.)atAQ-3to68.1µg/m3(Max.)atAQ-1						
Quality	◆ PM2.5–30.	43(Min.)atAQ-2to38.6µg/m3(Max.)atAQ-1					
Monitoring	\$ SO2-6.45(Min.)atAQ-3to12.53µg/m3(Max.)atAQ-8					
	♦ NOx-14.3	9(Min.)atAQ-3to22.81µg/m3(Max.)atAQ-5					
	◆ CO-<0.5(N	/in.)to<0.5µg/m3 (Max.)					
Noise Quality	✤ Noise level	during day time-50.6dB(A)(Min.)atAQ-4to53.2dB(A) (Max.) at					
Monitoring	AQ-1						
	✤ Noise Level	sduringnig httime -41.2dB(A)(Min.)atAQ-5,6to42.7dB(A)					
	(Max.) at A	AQ-2, 8.					
Water Quality	Ground	An alysis results of ground water in the study area reveal the					
Sampling &	Water	following: -					
Analysis		✤ pH7.24(Min.)atGW-2to7.51(Max.)atGW-6,					
		 TotalHardness 84(Min.)mg/latGW-6to252mg/l 					
		(Max.) at GW-5,					
		✤ TDS133(Min)mg/latGW -6to380mg/l(Max)atGW- 5,					
		Sulphate 3.67 (Min.)mg/latGW-6to13.31mg/l(Max.)at					
		GW- 4,					
		 Chloride19.57(Min.)atGW-6to31.31mg/l(Max.)at 					
		GW-2					
	Surface	The parameters results are as follows:					
	Water	✤ pH value is7.23to 7.29					
		 TDS was observed as169mg/lto175mg/l 					
		 Chlorides were foundas19.57to25.44mg/l 					
		✤ Sulphates were foundas13.19to27.54mg/l					
		✤ Total hardness was observed92to104 mg/l.					
SoilQuality	◆ pH-6.93to 7.87.						
	✤ Organicma	tter1.02to1.73%					
	✤ TotalKjeld	ahlNitrogen0.085to0.0.128%.					
	✤ Phosphoro	us41.76to74.26 mg/kg.					
	✤ Potassium!	172.51to233.81mg/kg					

ANTICIPATEDENVIRONMENTALIMPACTSANDMITIGATIONMEASURES BIOLOGICALENVIRONMENT

The biological environment mainly consists of flora and fauna and its relationship with surroundings. Biological environment includes species of native plants and animals and one may measures the degradation of environment by noting the decrease in the commonly occurring species. As regards to fauna, the activity will have negative impact on them. At the beginning the animal will recede to distances due to noise generated from Transportation. They will trace back to an optimum distance after some time, on being habituated by disturbances. After the mining activity and growth of forest local fauna will again be reinstated even in a better way due to the generated forest cover in lieu of the existing denuded tract ofl and.There is no rareanden dangered faun as pieces close to the mining area. Considering the small area of mining, insignificant impact is envisaged on biological environment.

Direct Impact:

The Minor Mineral Quarry Cluster (Masonry Stone) Block which proposes production of 2,00,000 MT/Annum of minormineral. No direct impact is anticipated from the project on biodiversity.

Indirect Impact:

The major indirect impact in clude following.

- Mining activity is likely to affect the movement of the animal and birds.
- Increase in noise may affect the feeding, breeding and movement of animals.
- Likely settling of dust to be generated by movement of vehicles on leaves may results in to stunted growth of vegetation and may also affect the capacity of production.
- ✤ Largenumbersoflaborpopulationwillinfluxtheareaduringminingoperation.
- The major threat to surrounding flora is through collection of fuel wood by labor for cooking purposes and thereby loss of trees.

Cumulative Impact:

- Indirect and cumulative impacts are associated with various mining activities such as clearing of vegetation for establishment of various project units, movement of vehicles, Mining equipment s& machineries etc, interferences due to influx of labours etc.
- The losses of land for various project units will also not adversity affect the fauna as similar habitat is present throughout the project immediate influenced area. Therefore, impact due to loss of habitat for birds, reptiles and mammals of the project area is not expected.

11.3.2:LAND ENVIRONMENT

The sanctioned MLA is a virgin land and the mining for the extraction of granted quantity of minor mineral will be started after the grant of environment clearance. At present, there is no any type of pit is present in the mining lease area. However, at the end of the first year period of mining lease granted period the impact on land use will be limited.

: AIRENVIRONMENT

Anticipated impacts and evaluation:

In mining operations, loading, transportation and unloading operations may cause deterioration in air quality due to handling dry materials. In the present case, only wet materials will be handled, thus eliminating problems of fugitive dust.

MITIGATIONMEASURES:

The collection and lifting of minerals will be done manually. Therefore the dust generated is likely to be insignificant as there will be no drilling. The only air pollution sources are the road transport network of the trucks. The mitigation measures like the following will be resorted.

- ♦ Watersprinklingwillbedoneontheroadsregularly. This will reduced us tem is sion further by 75%.
- Carewillbetakentopreventspillagebycoveringthecarryingvehicleswithtarpaulinandsprinkling of water, if dry.
- Fortnightlyscrapingofroadinordertokeeptheroadsalmostleveled. This will ensure smooth flow of vehicles and also prevent spillage.
- Over loading will be kept under check by giving prior awareness.
- Proper Tuning of vehicles to keep the gase missions under check.
- Plantationoftreesalongtheroadstohelpreducetheimpactofdustinthenearbyvillages.
- Care will be taken to use PUC certified trucks.

:WATER ENVIRONMENT

- Various surface and ground water samples are collected and analyzed in the reputed laboratory. The report indicated that the water available in the area is potable and all values are within the permissible limit.
- Hand pumps and dug wells are situated within 500 m Core Zone in which drinking water facilities are available.
- Nopumpingofwaterwillbedoneinanysurfacebodydirectly.Theminewaterwillbepumpout during rainy seasons.The pumped out water will be stored and utilized for sprinkling of water on haul roads, watering of plants, drilling and other dust suppression measures.
- Post-monsoon and Pre-monsoon groundwater level will be monitored regularly through nearby hand pumps and dug wells.
- * Awarenessprogramswillbetakenuptoeducatepublicforconservationofwater.
- ✤ Mobiletoilets will be used at site.
- MLareaunderreferenceiswaterscarceandwaterreservoirwillbeasourceofwatertovillagers. It will also attract birds and will improve aquatic environment.

NOISEENVIRONMENT

Anticipate dimpacts and evaluation:

The mining methodology is done in semi mechanized process so there will not be any major impact onnoiselevelduetothemining. The only impact will be due to transportation of materials by trucks.

- Mentald is turbance, stress & impaired hearing.
- ✤ Decrease in speech reception & communication.
- Distractionanddiminishedconcentrationaffectingjobperformanceefficiency.

Mitigationmeasures

- Well maintained vehicle will be used which will reduced the noise level.
- **Plantation:** Plantation of trees along the road will bed one to dampen the noise, if possible.
- The vehicles will be maintained in good running condition so that noise will be reduced to minimum possible level.

- Awareness will be imparted prior to mining operations that smoke silencer sremaining good conditions not to generate noise.
- In addition, truck drivers will be instructed to make minimum use of horns at the village area.
- Where ever space is made available byth eauthorities 'plantation will bed one and also post Plantation care will be provided.

ENVIRONMENTMONITORINGPROGRAME

Regular Monitoring of all the environmental parameters *viz.*, air, water, noise and soil as per the formulated program based on CPCB and MoEF&CC guidelines will be carried out every year in order to detect any changes from the baseline status.

S.No.	Attributes	Parameters for	Frequency	Locations
		monitoring		
1.	Meteorology	Wind speed, Wind direction, Dry bulb temperature, Wetbulb temperature, Relative humidity, Rainfall	Minimum1siteinthe project impact area	Regularly in one season by Weather Monitoring Station
2.	Ambient Air	PM ₁₀ ,PM _{2.5} ,SO ₂ , NOx, Free Silica	As per CPCB/ MoEF&CC requirement i.e. 24 hourly monitoring for one month in each season except monsoon.	One location in down wind direction /impact zone (core Zone) &seven locations in Buffer zone.
3.	Noise	Noise level at Dayand Night – Leq dB (A), Day Time: Leq (6.00AMto10.00 PM),Night Time: Leq (10.00 PM) To 6.00 AM)	Periodic/AsperCPCB norms	One location incore Zone (Mine Boundary)& High noise generating areas Within buffer Zone
4.	Water Quality &Surface Water Quality	TDS, Total Hardness, Calcium hardness, Magnesium hardness, Chloride, Fluoride, Sulphate,Nitrates,pH ,Alkalinity, Iron, Odour,Zinc,Cyanide, Taste, Copper &Microbiological Parameter As per IS	Diurnal and Season wise AsperIS10500-2012	Set of grab samples during pre monsoon for ground and surface water for 10 km distance.

Table11.4:MonitoringSchedule&Parameters

		10500:2012		
5.	Soilquality	pH, Bulk Density,	Yearly	8locationintheProject
	Monitoring	Soil texture, Nitrogen,		impact area
		Available Phosphorus,		
		Potassium, Calcium,		
		Magnesium, Sodium,		
		Electrical		
		Conductivity, Organic		
		Matter, Chloride		
6.	Socioecono	Demographic	Yearly	Socio -economic survey
	mic	structure		is based on
	Status	• Infrastructure		proportionate, stratified
		resourcebase		and random sampling
		Economicresource		Method. Secondary data
		base		from census records,
		• Health status:		statistical hard books,
		Morbidity pattern		Topo-sheets, health
		Cultural and		records and relevant
		aesthetic attributes		official records available
		Education		with Govt.Agencies.
7.			Veerley	
/.	Ecological	• Green Belt	Yearly	Survey Secondary data
	Impact	Development		from statistical hard
		• Conservation of		books, toposheets and
		Wild Life		relevant official records
				availablewithGovt.
				agencies

Table 11.5: Budget Allocation for Environment Monitoring Programme

1	Air Quality:	@20000x8	1,60,000
2	Water Quality	@10000x10	1,00,000
3	Ambient Noise Level	@2000x8	16,000
4	Soil Quality	@10000x8	80,000
5	Biodiversity Survey	-	1,00,000
6	Socio Economic Survey	-	80,000
	TOTAL		5,36,000

CorporateEnvironmentResponsibility(CER)

- TotalCostoftheProject=106.53Lakhs
- > 2% of the total Project Cost will be expended towards CER i.e. 2.13 Lakhs

As Per The G.O.I Notification, FileNo.22-65/2017-IA, IIIdatedon1stMay,2018

Table11.6:The Proposed Cost for CER Plan

This is the Proposed cost CER Plan, Activities and actual cost will be Finalized asper the Actual need of the area. (ONTHEBASISOFNEEDBASEASSESSMENTSURVEY) S. No. **CostperUnit(Rs)** Total(Rs) Activity Quantity Solar street light Installation in 15,000 8 1,20,000 1. Rural areas 2. 60,000 1 60,000 Toilets for women near by primary school 3. Awareness Programon Personal 33,000 33,000 _ Hygiene (COVID 19) and Distribution of Maskand Sanitizers **Total Proposed CER Cost** 2,13,000 (2.13 Lakhs)

Conclusion:

In general, socio-economic environment will have positive impact due to the mining project in the area. The lessee has already all ocated Rs2.13 Lakhs (As per demand) for Socio-Economic measures.

1. Capitalcostoftheproject(inRs.Lac) (Based on latest estimate)

106.53

2. Cost of Environmental Protection Measures

S.		Capitalcost		Annual	
No.				recurringcost	
		Existing	Proposed	Existing	Proposed
1	Pollution Control		12.00 Lakhs		1.0 Lakhs
	(Separately provide break-				
	up)				
	It includes mitigation measures,				
	like water sprinkling, retaining				
	Wall setc.				
2	Pollution Monitoring		5.40 Lakhs		0.5 Lakhs
	(Separately provide break-up)				
3	Occupational Health		3.72 Lakhs		0.25
4	Green Belt Mine		5.04 Lakhs		0.25
	Roadside/Settlements				
5	Reclamation/Rehabilitation of				-
	Mined out area				
6	Others(specify)				-
	Total		26.16 Lakhs		2.0 Lakhs

3.	. Amount ear marked for socio-						
	economic Welfare measures for thenear	2.13	Lakh				
	by villages Other than R&R plans						
4.	Whetherthefollowingapprovals*(whereverapplicable)have been obtained?						
	(i)Mining plan approval from Directorate of Geology & Min	ing Yes	\checkmark	No [-		
	(ii) 'Consent for Establishment' from the State Pollution Con	trol Board Yes	-	No	٧		
	(iii)Mining pl an approval from IBM/ Ministry of Coal	Yes	-	No	v		
	(iv) In case of existing mines, mining scheme approval from Directorate of Geology & Mining	Yes	-	No [✓		
	(v) ForestryclearanceunderFCA,1980	Yes	-	No	V		
	(vi) NOC from Chief Controller of Explosives	Yes	-	No	v		
	(vii)Commitment regarding availability/pumping of waste	Yes	-	No	٧		
	From the concerned Authorities			I			
	(iv) In case of ML area falling in notified areas	Yes	-	[٧		
		Noof t	he Central				
	Ground Water Authority NOC from them.						

*Annex copies of approval sand number them

5. Was/isthereanycourtcaserelatingtoprojectorrelatedactivities?Ifso,providedetailspresent status.

Yes		No	N
	-	110	v

Verification: The data and information given above are true to the best of my knowledge and belief & I am aware that if any part of the data & information submitted is found to be false or misleading at any stage, the project will be rejected & clearance given, if any to the project will be revoked at our risk & cost.

Date:

Signatureoftheapplicant

Place:

Mr. Gh Ahmad Ahanger S/o Ab Rajak Ahanger (Partner:-ManjoorAhmadBhatS/oMohdSubhan Bhat) Village-Khanmoh,Tehsil-Panthachowk District- Srinagar, State- J&K