

STUDY PERIOD- December 2024 To February 2025

EXECUTIVE SUMMARY (ENGLISH & HINDI)

FOR

PROPOSED GURYALI/SAPROH & BUMPAL SAND, STONE & BAJRI MINING PROJECT

AT

NEAR VILLAGE- MAUZA GURYALI/SAPROH & BUMPAL, TEHSIL- NADAUN, DISTRICT-
HAMIRPUR
(HIMACHAL PRADESH)

(Govt. Land)

Purpose – Fresh Grant EC

Area 06-84-95 HA. Khasra No- 673 & 674

FOR ANNUAL PRODUCTION OF MINERAL SAND, STONE & BAJRI – 1,09,440
TPA

CATEGORY- 'B1

APPLICANT

SH. RAJ KUMAR S/O SH. PUNNU RAM

R/O- Village Sorad, P.O. Jol Sappar, The.
Nadaun, Dist. Hamirpur, Himachal
Pradesh.

EIA CONSULTANT

M/S N.S. ENVIROTECH LABORATORY &
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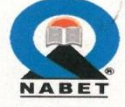
OFFICE ADD-P. NO. 51, GANETA HOUSE, SHIV
VIHAR COLONY

NEAR PATRAKAR COLONY ROAD, MANSAROVAR
JAIPUR - 302020 (RAJ.)

(NABET approved organization NABET/EIA/23-26/IA
0129)

Validity (25-12-2026) MOB:- 09829930877

E-mail :- nsenvirotech@gmail.com



National Accreditation Board for Education and Training

Certificate of Accreditation

N.S. Envirotech Laboratory & Consultant Private Limited, Jaipur

Plot No. 51, Ganeta House, Shiv Vihar, Near Patrakar Colony Road,
Near Vedant International School, Mansarovar, Jaipur, Rajasthan-302020

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S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1.	Mining of minerals including opencast/under-ground mining	1	1 (a) (i)	A
2.	Highways	34	7 (f)	A
3.	Common Municipal Solid Waste Management Facility (CMSWMF)	37	7 (i)	B

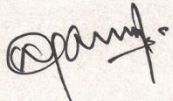
Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in IAAC minutes dated January 12, 2024, posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no QCI/NABET/ENV/ACO/24/3138 dated February 19, 2024. The accreditation needs to be renewed before the expiry date by N.S. Envirotech Laboratory & Consultant Private Limited, Jaipur following due process of assessment.

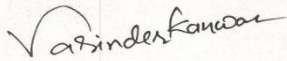
Issue Date
February 19, 2024



Valid up to
December 25, 2026


Mr. Ajay Kumar Jha
Sr. Director, NABET

Certificate No.
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Prof (Dr) Varinder S Kanwar
CEO-NABET

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INDEX

TABLE NO.	PARTICULAR	PAGE NO.
PART -	B	
1.0	INTRODUCTION	6
1.1	LOCATION	6
2.0	MINING	7
2.1	MINERAL	7
3.0	SITE FACILITIES AND UTILITIES	8
3.1	TEMPORARY REST SHELTER	9
4.0	BASE LINE DATA	9-10
5.0	ANTICIPATED IMPACTS AND MITIGATION MEASURES	10
5.1	LAND ENVIRONMENT	10
5.1.1	ANTICIPATED IMPACTS	10
5.1.2	MITIGATION MEASURES	11-12
5.2	WATER ENVIRONMENT	12
5.2.1	ANTICIPATED IMPACTS	12
5.2.2	MITIGATION MEASURES	13
5.3	AIR ENVIRONMENT	13
5.3.1	ANTICIPATED IMPACTS	14
5.3.2	MITIGATION MEASURES	14
5.4	NOISE ENVIRONMENT	15
5.4.1	ANTICIPATED IMPACTS	15

5.4.2	MITIGATION MEASURES	15
5.5	BIOLOGICAL ENVIRONMENT	16
5.5.1	ANTICIPATED IMPACTS	16
5.5.2	MITIGATION MEASURES	17
6.0	ENVIROMENTAL MANAGEMENT PLAN (EMP) & ITS IMPLENETATION	18
7.0	BUDGET ALLOCATION FOR EMP IMPLENTATION	19
8.0	BENEFITS OF MINING	20
8.1	PHYSICAL BENEFITS	20
8.2	SOCIAL BENEFITS	20
9.0	ENVIROMENTAL BENEFITS	21
10.0	CORPORATE SOCIAL RESPONSIBILITY	21
PART -	B – EXECUTIVE SUMMERY IN HINDI	22-40

EXECUTIVE SUMMARY
ENGLISH & HINDI

EXECUTIVE SUMMARY

1.0 INTRODUCTION

As per the Office Memorandum issued by Ministry of Environment, Forest & Climate Change ToR Identification No. TO25B0107HP5148748N, File No: HPSEIAA/2025/1271 Government of India Ministry of Environment, Forest and Climate Change (Issued by the State Environment Impact Assessment Authority (SEIAA), HIMACHAL PRADESH) the Standard Terms of Reference (TOR) which have been issued on 26.04.2025 for seeking environmental clearance for mining of Sand, Stone & Bajri Mine in the applied mining lease area measuring 06-84-95 hectares. The lease area lies near Mauza/Mohal Guryali/Saproh & Bumpal, Tehsil- Nadaun, and District- Hamirpur, Himachal Pradesh. It has been proposed to extract around 1,09,440 TPA (excluding waste i.e 5760 MT) of Stone, Sand & Bajri minerals, the extracted minerals will get replenished during every monsoon season.

1.1 LOCATION

It is a Stone, Sand & Bajri Mine is proposed in the mining area 06-84-95 ha (Govt. Land), Near Village- Guryali/Saproh & Bumpal, Tehsil- Nadaun & District-Hamirpur, (Himachal Pradesh). Mining is carried out by semi Mechanized Opencast method. Stone, Sand & Bajri Mine to be mined out 1,09,440 TPA. The mine lease co-ordinates are listed below:

Latitude : *31°45'15.75"N*
Longitude : *76°23'54.61"E*

2.0 MINING

1. The mining shall be taken manually with the use of hand tools.
2. Controlled blasting shall be carried out and Blast Hole shall be adequately muffled. Each and every blast shall be monitored for Ground Vibrations and Air over pressure.
3. Sufficient safety berm shall be maintained with respect to public road/village roads/riverbeds etc.
4. Keeping in view of the replenishment factor, no rotational mining has been proposed. The complete mineable area shall be explored every year.
5. Though the major mining activities will be under taken during the dry seasons.
6. Mining activity will be done in day time only.
7. Total no. of working days 300 days.

2.1 MINERAL

Size/ Magnitude of Operation

It is proposed to produce 1,09,440 TPA of Mineral Stone, Sand & Bajri Mine from the mining area of 06-84-95 ha by semi-mechanized open cast method of mining.

Table Showing Year wise Production Programme

Year	Area proposed for mining (in sq.mtr.)	Production of Mineral (in MT)				
		Stones	Bajri	Sand	Silt	Total
1 st Year	51200	69120	23040	17280	5760	115200
2 nd Year	51200	69120	23040	17280	5760	115200
3 rd Year	51200	69120	23040	17280	5760	115200
4 th Year	51200	69120	23040	17280	5760	115200
5 th Year	51200	69120	23040	17280	5760	115200
Total		345600	115200	86400	28800	576000

3.0 SITE FACILITIES AND UTILITIES

Water Supply

Activity	Water Requirement (KLD)
Dust suppression	2.1
Drinking & other purposes	1.1
Green belt	1.0
Total	4.2

Water Requirement for the mining process will be met from own tubewell through water tanker to the mine site.

3.1 Temporary Rest Shelter:

A temporary rest shelter will be provided for the workers near to the site for rest. In addition, First aid box along with anti-venoms to counteract poison produced by certain species of small insects, if any and Sanitation facility i.e. septic tank or community toilet facility will be provided for the workers.

4.0 BASE LINE DATA

Environmental data has been collected in relation to proposed mining for Air, Noise, Water, Soil, Ecology and Biodiversity.

Baseline Environmental Status

Attribute	Baseline status
Ambient Air Quality	<p>Ambient Air Quality Monitoring reveals that the minimum & maximum concentrations of PM10 amongst all the 8 AQ monitoring stations were found to be 61.32 µg/m³ at AQ1 and 73.26 µg/m³ at AQ4, respectively. This dust concentration will get considerably reduced the moment measures are taken for dust control at the crusher itself, like the wet crushing, or extraction of dust laden air and cleaning of dust thereof.</p> <p>As far as the gaseous pollutants SO₂ and NO₂ are concerned, the prescribed CPCB limit of 80 µg/m³ for residential and rural areas has never surpassed at any station. The minimum & maximum concentrations of SO₂ are 5.0 µg/m³ at AQ1 to 10.10 µg/m³ at AQ5. The minimum & maximum concentrations of NO₂ were found to be 8.00 µg/m³ at AQ1 to 11.38 µg/m³ at AQ5 respectively.</p>
Noise Levels	<p>Noise monitoring was carried out at Ten (10) locations. Noise monitoring reveals that the minimum &</p>

	maximum noise levels at day time were recorded as 42.63 dB(A) at NQ-7 & 54.23 dB(A) at NQ-1 respectively. The minimum & maximum noise levels at night time were found to be 40.10 dB (A) at NQ-10 & 43.26 dB(A) at NQ-8 respectively.
Water Quality	8 Groundwater 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 drinking water standards promulgated by IS: 10500.
Soil Quality	Samples collected from identified locations indicate the soil is Loamy type and the pH value ranging from 7.5 to 7.8, which shows that the soil moderately alkaline in nature. The water holding capacity is found in between 32.0 % to 35.60 %.
Ecology and Biodiversity	There is no wild life sanctuary present within 10 km radius of the study area.
Socio-economy	The implementation of Mauza & Mohal Bain Attarian Mining Project 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 a great extent due to proposed mining project and associated industrial and business activities.

5.0 ANTICIPATED IMPACTS AND MITIGATION MEASURES:

5.1 LAND ENVIRONMENT:

5.1.1 Anticipated Impacts:

During the next five years of mining, land will be degraded due to mining & allied activities. The breakup of the land to be affected during the five years and end of conceptual period of due to mining operation is given below:

S. No.	Land use Category	Present Land use	At the end of Fifth Year	At the end of Life of Mine
1	Pits	-	3.4295	3.4195 (*Water Reservoir)
2	Top Soil Dump	--	-	-
3	Dumps	-	-	-
4	Backfilled	-	-	-
5	Mineral Stack yard	-	-	-
6	Sub Grade Stack yard	-	-	-
7	Infrastructure	-	-	-
8	Plantation	-	3.42 (*Outside the lease area)	3.43 (*Outside the lease area)
9	Backfilling	-	-	-
10	Water Reservoir	-	-	-
11	Road/Ramp	-	-	-
12	Remaining Undisturbed Land	6.8495	-	-
	Total	6.8495	6.8495	6.8495

5.1.2 Mitigation measures:

Adopting suitable, site specific mitigation measures can reduce the impact of mining on land. Some of the land-related mitigation measures are as follows:

- Present land-use pattern of the lease area is waste land and at conceptual stage the land use pattern will remain the same, hence it will not change.
- A proper scheme for waste management is provided as detailed out in mining plan.
- No acid rain receive is there within the area therefore, no proposal has been given for discharge of acid mine drainage. Hence no change in drainage pattern will be there.
- The area is a terrace fields having mild slope. No surface subsidence shall be observed as the mining shall be carried out open semi mechanized & formation of benches & slope of benches shall be kept 700 which is safe slope of any kind of terrace in Himalayas.
- Movement of the vehicles on the road will be increased; however, non-metalled road leading to minerals from mining area will be sprinkled with water at regular

intervals. In addition to prevent spillage by tractor trolley, over loading should be controlled along with speed limit.

- The applied area comprises of Khasra No. 673 & 674 (Govt. Land) area 06-84-95 hectares.

5.2 WATER ENVIRONMENT:

5.2.1 Anticipated Impacts:

There is no water consumption in the mining process as it involves only manual or semi mechanized uplifting. The use of water if any is for drinking of 25 persons during the working hours as nobody stays at mine site at night. It is provided to the persons in pitcher at site. The further use is for sprinkling or plantation. The total water consumption is expected to be around 4.2 KLD only. The sprinkler water demand is minimized by paving the roads using waste material; the plantation also requires water initially and local species will be used for plantation which sustain well. In addition, the runoff after rainfalls shall be tapped and used for plantation. There is no abstraction of water at mine site and water is taken from authorized sources and consent from the village panchayat is taken.

A.Surface Water

No water bodies exist within lease area. The rainwater channelizes through the slope & gullies & meets the drainage. The opencast mining operation usually causes surface water pollution. The sources of pollution generally are run-off from waste dump and mining area. During the mining activity period, there is a possibility of mixing of freshly disturbed material with the rain water. The mining area lies on hilly land having rocky exposure and has no soil cover, therefore storage of soil is not required. However if some soil is encountered in small patches during mining, then it will be recovered carefully and used for plantation purpose. There is proposal for waste dump. There is proposal of utilization of waste material in construction of parapet walls, retaining walls & check

dams and paved roads. The rest of waste material will be stacked in dump stack as in mining plan.

B. Ground water

The water table in hills is usually very deep and does not have any relevance with mining activities & nor water is likely to be encountered while carrying out mining operations. Ground water pollution can take place only if dumps and stockpiles contain harmful chemical substances that get leached by precipitation of water and percolate to the ground water table. This is not the case with this mine; the mining does not intersect with the ground water table. The excavation of Stone Sand & Bajrie further does not add to any harmful ingredients that could leach down to the water table. The composition of Stone Sand & Bajri is mainly CaO and MgO. Thus the mine workings shall not affect the ground water quality.

5.2.2 Mitigation Measures

- To prevent the mixing of freshly disturbed material with rain water, retaining walls & check dams have been provided along the drainage & only clear water allow to flow & meet the drainage.
- The plantation as detailed out in EMP shall further help reduce surface water pollution.

5.3 AIR ENVIRONMENT:

5.3.1 Anticipated Impacts:

Impacts on Ambient Air Quality

During mining, at various stages activities such as excavation, drilling, blasting, and transportation of materials, particular matter (PM), gases such as Sulphur dioxide, oxides of Nitrogen from vehicular exhaust are the main air pollutants. The fugitive dust released from the mining operations may cause effect on the mine workers who are directly exposed to the fugitive dust. Simultaneously, the air-borne dust may travel to longer distances and settle in the villages located nearby the mine lease area.

However the impacts will be localized in nature and area outside the project boundary are not likely to have any adverse impact with respect to ambient air quality.

Mitigation Measures

- Main source of air pollution is dust from the movement of trucks from mining site to stock yard site. The road is metalled except that inside the connecting link. The same is paved using waste stones. This reduces the dust level from the movement of vehicles to a large extent.
- The sprinkling of water is further undertaken as and when required on roads as well as stockpile.
- The dust is also generated due to low level ballasting. It is very limited to the explosion site within 100 m. It is minimized by plantation around the mine boundary.
- Further while manual lifting the material and dumping into truck or by using excavator in this case being lime stone pieces, the dust generated is minimum. However, when excavator is used the drivers are trained to drop the material from minimum height.
- Plantation is carried out on slopes; along the roads.
- Proper maintenance of vehicles will be done to minimize the pollutants; Pollution under Control certificates will be maintained for the trucks and drivers are instructed to drive at slow speed and proper supervision is maintained.
- Use of windbreaks will be done at the site as needed.
- The trucks are covered while moving the material and it is ensured that loading is done so that there is no spillage of material during the movement.
- Effective traffic management will be done by ensuring that there are no traffic jams on mine route by deputing manpower and by planning truck movement.
- Proper management of waste dump yard.
- Effective mine closure plan or post mining land use
- Provision of dust filters / mask to workers working at highly dust prone and affected areas.

5.4 NOISE ENVIRONMENT:

The proposed mining activity is manual in nature. Only Ordinary Minimum Blasting is proposed for this mining activity. Hence the only impact is anticipated is due to movement of vehicles deployed for transportation of minerals. About 30 to 32 truck trips/hr would be required for transporting mined material per working day from mining area.

5.4.1 Anticipated Impacts:

The following control measures shall be taken to keep the ambient noise levels well within limits:

- Minimum use of horns and speed limit is 10 kms in the village area.
- Only PUC certified vehicles will be used for transportation purpose.
- The dedicated tipper truck would be properly and regularly undergo maintenance so as to create minimum noise.
- Special care would be taken to properly maintain the silencers of the vehicles.

Vibrations:

Ordinary Minimum Blasting has been done because the land area has already been fractured. If required ordinary blasting is done with maximum charge of 250gms. The explosive used is ordinary detonator with safety fuse. Further area being fractured Stone Sand & Bajris, the chances of vibrations moving for a distance are less. The blasting hole is also surrounded with sand. There is no habitation also immediately around the mine project. The vibrations are thus not studied.

5.4.2 Mitigation measures

The following measures have been envisaged to reduce the impact from the transportation of minerals:

- i. The vehicles will be maintained in good running condition so that noise will be reduced to minimum possible level.
- ii. In addition, truck drivers will be instructed to make minimum use of horns in the village area and sensitive zones.
- iii. No such machinery is used for mining which will create noise to have ill effects.

Awareness will be imparted to the workers about the permissible noise levels & maximum exposure to those levels.

5.4 BIOLOGICAL ENVIRONMENT:

5.5.1 Anticipated Impacts:

The existing mine lease area is wasteland falling in Private Category. The extensive survey of core and buffer areas showed no endangered species, no wildlife sanctuary, no national park, no biosphere reserve and no wildlife corridor in core and buffer zones. No migratory routes of birds were found in core and buffer zones.

There's no forest land in or adjacent to the mine lease area. Due to the mining activities habitat disturbance will take place for the fauna dwelling in the area. The mining activities may cause impacts on ecology of the area. Due to dust in atmosphere from mining activities, when deposited on the leaves of the plants in the surrounding areas may retard their growth.

Though the impact on biological environment is nominal due to mining activities at low scale and limited period, the mining activities may cause an impact on the flora and fauna scenario of the area, if proper mitigation measures are not adopted.

Impact on Flora and Fauna: The activities as blasting including drilling holes, operation of machinery as excavator and movement of trucks can have impact in terms of disturbance due to noise; interference in movement etc.

5.1.2 Mitigation measures

- Plantation will be developed in the mining lease area as per plantation programme so as to improve the floral cover of the area. The greenery and plantation development will eventually attract fauna in the area.
- Assistance will be taken from local forest department in selection of species of plants so that green coverage could improve very fast. The varieties would include those plants, which are suitable in the area.
- Mining activities shall be restricted to day time so that fauna is not disturbed at night.
- Proper traffic management including ban on use of pressure horns; restriction on use of music in vehicles at high volume as well as regular maintenance of vehicles shall be insisted to minimize disturbance from vehicular movement.
- The noise causing activities as operation of excavator shall be stopped at regular intervals so that the continuity is broken. The blasting shall be restricted of low impact and shall be planned in consultation to have minimum impact.
- Water bodies shall be created in the area.
- The dust is the only major pollutant which will be generated from different activities of mining. The effect of particulate matter on vegetation is in the form of incrustation, plugging of stomata loss of chlorophyll and reduction of photosynthesis process. Disturbance in plant metabolism due to deposition of dust particles on foliar surfaces leads to reduction in plant growth. The atmospheric concentrations normally do not reach a level sufficient to induce acute injury. A perusal of previous section reveals that the maximum incremental ground level concentrations for PM10 likely to be encountered in the mine operations are well within the NAAQS standards. Moreover, progressive afforestation programme activity over a period of time in the core zone will create favourable conditions for fauna in the area and hence reversible impact is anticipated after presence of favorable condition.

6.0 ENVIRONMENTAL MANAGEMENT PLAN (EMP) & ITS IMPLEMENTATION

Proper environmental management plan are proposed for Lime Stone mining project to mitigate the impact during the mining operation.

- No labour camps will be established on river bed.
- No cooking, or burning of woods will be allowed in the nearby area.
- Prior to commencement of mining, a short awareness program will be conducted for labours to make them aware of way of working and various precautions to be taken while at work. Such program will be repeated occasionally.
- In the event of any some causality or injury to any animal occurs, proper treatment will be given.
- No tree cutting, chopping, lumbering, uprooting of shrubs and herbs will be allowed.
- Corridor movement of wild animals, if exists mining operations will be avoided in the area.
- It will be ensured that noise produced due to vehicles movement while carrying sand is within the permissible noise level.

7.0 BUDGET ALLOCATION FOR EMP IMPLEMENTATION

The cost of project (capital cost and recurring cost) as well as the cost towards implementation of EMP						
S. No	Description	Measures	Capital Cost (Lac Rs.)	Recurring Cost (In Lac Rs.)	Time Frame	Date of Start
1	Air pollution control	Sprinkling of Water on Haulage Road to control Dust. (Rent for Water Tanker)	-	0.5	Twice a time in a day	w.e.f date of getting Environmental Clearance
2	Plantation	Plantation will be developed on the adjoining private land (outside the lease area)	-	0.20	Total 6850 plants will be planted for 5 year	w.e.f monsoon season after getting Environmental Clearance
3	Occupational Health measures and other miscs activities for Employees) Shelter, Health Facilities, Safe drinking water, will be provided to labour.		0.20	0.65	Two times in a year report will be submitted to regional Office MoEF&CC& H.P SEIAA	w.e.f date of start of mine.
	a) That initial medical examination of all mine workers must be done prior to deployment at the mine.					
	b) That routine					

<p>health check up every mine worker on monthly basis and every worker must be provided adequate medical/ health aid as and when required</p> <p>c) That every person deployed by the proponent in a mine must be provided safety gadgets such as face mask, respiratory mask, safety boot & helmets etc to avoid mine dust exposure and related health complication associated with mine dust as well as to avoid any injuries during mining work.</p> <p>d) That basic amenities such as First Aid Kit , drinking Water , toilets</p>					
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	etc must be ensured at the mine site.					
4	Retaining structure construction and maintenance	construction and maintenance will be done	--	0.20		w.e.f date of start of mining
5	Environment Monitoring and Management	--	--	0.50	Two times in a year report will be submitted to regional Office MoEF&CC & H.P SEIAA	w.e.f date of start of mining
Total			0.20	2.05		
Total budget for EMP for 5 years = Capital Cost (Rs. 0.20 Lacs) + Recurring Cost (Rs 2.05 Lacs* 5=10.25) = 10.45 lacs.						

8.0 BENEFITS OF MINING

8.1 PHYSICAL BENEFITS

The opening of the proposed project will enhance the following physical infrastructure facilities in the adjoining areas.

- a. **Improvement in Road Transport/**road communication due to the proposed project and maintenance will also be done time to time.
- b. **Market:** Generating useful economic resource for construction. Excavated mineral will provide a good market opportunity.
- c. **Enhancement of green cover:** As a part of reclamation plan, plantation will be carried along the road sides or near the civic amenities.

- a. **Creation of community assets** (infrastructure) like provision for drinking water, construction of school buildings, village roads/ linked roads, dispensary & health centre, community centre, market place etc, as a part of corporate social responsibility.

8.2 SOCIAL BENEFITS

- a) **Increase in Employment** Potential due to the project activity. Employment opportunities will increase both directly as well indirectly.
- b) **Contribution to the Exchequer** as the saleable minerals will be given royalty. Since the quarries will be leased out to successful allottees, mining operation in the state will get legalized and it will fetch income to the state exchequer.
- c) **Increased Health related activities:** Healthcare promotional activities will be undertaken. Pre-placement & and Periodic medical checkups will be done, which will lift the general health status of the residents of the area. Health camps, medical aids, family welfare programs, immunization camp sports will be arranged.
- d) **Educational attainments:** Educational activities will be promoted by the lessee. Awareness program will be arranged covering basic issues related to primary level education, environment, health and hygiene etc.
- e) **Strengthening of existing community** facilities through the Community Development Programme.

9.0 ENVIRONMENTAL BENEFITS

- a. Controlling river channel
- b. Protecting of river banks
- c. Reducing aggradation.
- d. Protection of crops being cultivated along the river bank.
- e. A check on illegal mining activity.

10.0 CORPORATE SOCIAL RESPONSIBILITY

A percentage of the project cost will be allotted for the Corporate Social Responsibility for activities related to education, social causes, healthcare & environmental.

Budget Proposed for Corporate Social responsibilities Activities

<i>Budget for Social Corporate Responsibility</i>		
Item	Capital (In Lac.)	Recurring Cost/year (Lacs)
Contribution to the local area under <i>Social Corporate Responsibility</i> will provide water cooler in school premises of GPS, Guryali, P.O Lahar, Tehsil Nadaun & Dist- Hmirpur (H.P)	10.00	-
The bearing of maintenance of water cooler will be of P.P	-	4.00
Total cost	10.00	4*5 = 20
Total cost in five years Rs. 30 Lac (Within 6 months after getting Environmental Clearance)		

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2	□□□□□□ □□□□ □□□	--	-	-
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8	□□□□□□□□□□□	-	3.42 (*Outside the lease area)	3.43 (*Outside the lease area)
9	□□□□□□□□□□□	-	-	-
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5.4.1 [Placeholder text]

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5.4.2 [Placeholder text]

[Placeholder text]

i. [Placeholder text]

ii. [Redacted text]

iii. [Redacted text]

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5.5 [Redacted text]:

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Applicant – Shri Raj Kumar
