

**ENVIRONMENT IMPACT ASSESSMENT  
&  
ENVIRONMENTAL MANAGEMENT PLAN  
WITH EXECUTIVE SUMMARY HINDI & ENGLISH  
FOR  
CLUSTER AREA OF 3 EXISTING MININGLEASE IN 5.673 HECT. AND  
PROPOSED  
RIVER BED MINING PROJECT OF MINOR MINERAL  
SAND & BAJRI AT**

**MAUZA CHARATGARH**

Tehsil –Una , District – una,  
State – Himachal Pardesh  
(Private Land)

**NAME OF RIVER – SOAN RIVER**

Purpose – Fresh Grant EC,

Proposed Production – 31,680 TPA

**APPLIED LEASE AREA- 01-79-70 Hect., PROJECT COST – 35 Lacs**

Detail of Existing Leases in 500 m Periphery (Cluster area):

<b>Sr. No.</b>	<b>Name of project</b>	<b>Khasra No.</b>	<b>Area in hect.</b>	<b>Mauza /Mohal</b>	<b>Status of Lease in Cluster</b>
1	Sh. Ajay Sharma	1930/2,1929/2, 1928/2	3-12-51, Pvt land	Khanpur	Operational
2	Sh. Manav Khanna	1935	1-39-00, Pvt land	Khanpur	LOI issued
3	Sh. Surinder Kaur	1332	1-24-79, Pvt land	Chartagarh	Applied

**CATEGORY- 'B1**

**APPLICANT**

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DRAFT EIA/EMP REPORT OF SAND AND BAJRI MINE. TOTAL AREA IS 1-79-70 HECTARE, LOCATED NEAR VILLAGE CHARATGARH, TEHSIL & DIST- UNA (H.P)



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National Accreditation Board for  
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EIA Coordinator

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### ABBREVIATIONS

AAS/ICP	:	Atomic Absorption Spectrophotometer/Inductively Coupled
A		Plasma Analyzer
AAQ	:	Ambient Air Quality
AAQM	:	Ambient Air Quality Monitoring
AAQS	:	Ambient Air Quality Standards
ADM	:	Additional District Magistrate
AIS & LUS	:	All India Soil and Land Use Survey
AMSL	:	Above Mean Sea Level
ANFO	:	Ammonium Nitrate - Fuel Oil
APHA	:	American Public Health Association
BH	:	Business Head
BHs	:	Bore Holes
BIS	:	Bureau of Indian Standards
BGL	:	Below Ground Level
CAZRI	:	Central Arid Zone Research Institute
CC	:	Calcium Carbonate
CCA	:	Culturable Command Area
CFM	:	Cubic Feet per Minute
CWC		Central Water Commission
CPCB	:	Central Pollution Control Board
CCR	:	Central Control Room
CSR	:	Corporate Social Responsibility
CMO	:	Cement Manufacturing Officer
DFO	:	District Forest Officer
DGMS	:	Directorate General of Mines Safety
DMP	:	Disaster Management Plan
DMG	:	Department of Mines and Geology
DSB	:	Differential Sub Basin
DTH	:	Down the Hole
E	:	East
EAC	:	Expert Appraisal Committee
EC	:	Environmental Clearance
ECO	:	Emergency Coordinating Officer
EIA	:	Environmental Impact Assessment
EMC	:	Environment Management Cell
EMP	:	Environmental Management Plan

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EMP	:	Environmental Monitoring Programme
ESE	:	East of South East
ENE	:	East of North East
EPA	:	Environmental Protection Act
ETP	:	Effluent Treatment Plant
ERDAS	:	Earth Resources Data Analysis System
EPO	:	Emergency planning officer
FPS	:	Fine Particulate Sampler
FCC	:	False Color Composite
Govt.	:	Government
GCP	:	Ground Control Points
GLC	:	Ground Level Concentration
GOI	:	Government of India
GPS	:	Global Positioning System
GSI	:	Geological Survey of India
GWEC	:	Ground Water Estimation Committee
Ha	:	Hectare
HIV	:	Human Immunodeficiency Virus
HEME	:	Heavy Earth Moving Equipment
HP	:	Horse Power
HOD	:	Head of Department
HSD	:	High Speed Diesel
IBM	:	Indian Bureau of Mines
IMD	:	India Meteorological Department
IS	:	Indian Standards
ISO	:	International Organization of Standardization
IUCN	:	International Union for Conservation of Nature
KLD	:	Kilo Liter Per Day
LOI	:	Letter of Intent
LUS	:	Land Use Study
LU/LC	:	Land Use / Land Cover
mRL	:	Meter Reduced Level
MC	:	Magnesium Carbonate
MHHS	:	Multi House Hold Survey
ML	:	Mining Lease
MoEF&C	:	Ministry of Environment , Forests& Climate Change
C	:	
MSK	:	Medvedev-Sponheur-Karnik Scale
MSL	:	Mean Sea Level

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MT	:	Metric Tonnes
MTPA	:	Metric Tonnes Per Annum
N	:	North
NAAQS	:	National Ambient Air Quality Standards
NABET	:	National Accreditation Board for Education & Training
NATMO	:	National Atlas & Thematic Mapping Organization
NABL	:	National Accreditation Board for Testing and Calibration Laboratories
NDIR	:	Non Depressive Infrared Spectroscopy
NE	:	North East
NH	:	National Highway
NNE	:	North of North East
NGO	:	Non Governmental Organization
NNW	:	North of North West
NRBPT	:	National Registration Board for Personnel & Training
NRSA	:	National Remote Sensing Agency
NRSC	:	National Remote Sensing Centre
NW	:	North West
OB	:	Over Burden
OBC	:	Other Backward Classes
OHS	:	Occupational Health and Safety
OSHA	:	Occupational Safety and Health Administration
PETN	:	Penta Erythritol Tetra Nitrate
PFR	:	Pre Feasibility Report
pH	:	Potential of Hydrogen
PHCS	:	Public Health Centers
PM	:	Particulate Matter
PPE	:	Personal Protective Equipment
PPV	:	Peak Particle Velocity
QCI	:	Quality Council of India
RSPM	:	Reparable Suspended Particulate Matter
SDO	:	Sub Divisional Officer
SC	:	Scheduled Caste
SE	:	South East
SEIAA	:	State Environmental Impact Assessment Authority
SHE	:	Safety, Health & Environment
SI	:	Sustainability initiatives
SIA	:	Social Impact Assessment
SOI	:	Survey of India

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SPCB	:	State Pollution Control Board
SPM	:	Suspended Particulate Matter
SSW	:	South of South West
ST	:	Scheduled Tribe
SW	:	South West
TC	:	Total Carbonate
TDS	:	Total Dissolved Solids
TNT	:	Tri Nitro Toluene
ToR	:	Terms of Reference
TPD	:	Tonnes Per Day
TRC	:	Technical Research Cell
TW	:	Tube Well
UNFC	:	United Nations Framework Classification
UPA	:	Urban Planet Atlas
USDA	:	United States Department of Agriculture
USEPA	:	United States Environmental Protection Agency
VT	:	Vocational Training
RF	:	Reserved Forest
PF	:	Protected Forest
W	:	West
WNW	:	West of North West
WSW	:	West of South West
$\mu\text{g}/\text{m}^3$	:	Micro gram per meter cube
$\mu\text{m}$	:	Micro Meter
cu. m	:	Cubic meter
dB	:	Decibel
gm/sec	:	Gram per second
gm/cc	:	Gram per cubic meter
hr/day	:	Hour per day
kg	:	Kilogram
Kg/hr	:	Kilogram per hour
Kg/ha	:	Kilogram per hectare
km	:	Kilometer
m	:	Meter
mg/l	:	Milligram per Liter
mm	:	Millimeter
Sq.km	:	Square Kilometer
t/hr	:	Tonnes per hour



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## **CHEPTEER- I INTRODUCTION AND BACKGROUND**

### **1.0 PURPOSE OF THE REPORT**

Environmental Impact Assessment (EIA) is one of the proven management tools for integrating environmental concerns in development process and for improved decision making. The growing awareness, over the years, on environmental protection and sustainable development, has given further emphasis to the implementation of sound environmental management practices for mitigating adverse impacts from developmental activities. EIA study plays a vital role in sustainable development of a country. Recognizing its importance, the Ministry of Environment and Forest, Government of India had formulated policies and procedures governing the industrial and other developmental activities to prevent indiscriminate exploitation of natural resources and to promote integration of environmental concern in project development.

Environmental Impact Assessment and Environment Management Plan report is prepared as per the Office Memorandum issued by Ministry of Environment, Forest & Climate Change as per Office Memorandum No. J-11013/41 /2006-1A- 1 1 (f) (Part) dated 29/08/2017 issued by MoEF & CC, Gol, the Standard Terms of Reference (TOR) which have been which have been issued on 6th Oct 2020 for seeking environmental clearance for mining of Sand and Bajri in the applied mining lease area measuring 01-79-70 hectares falling under category "B1" due to Cluster Situation. As per situation of Cluster, total 4 leases falls in this cluster. Out of which 3 leases and 1 is proposed applied LOI. The total cluster area is 7.56 hectare. The lease area lies near Mauza - Charatgarh, Tehsil Una, and District Una, Himachal Pradesh (*Letter of Intent copy attached with the report as Annexure D*).

The entire stretch of applied mining lease area is Private which is a part of bed of Soan River.

- The proposed project is manual extraction and collection of Sand and Bajri from bed of Soan River up to 1m (3 feet) bgl.
- It has been proposed to extract around 31,680 TPA of Sand and Bajri; the extracted materials will get replenished during every monsoon season.

### **1.2 IDENTIFICATION OF PROJECT & PROJECT PROPONENT**

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**1.2.1 Identification of the Project:**

As per vide letter Nos. Udyog-Bhu (Khani-4) Laghu-660/2018-10930 dated 05-02-2019, a letter of Intent has been granted to Shri Praveen Kumar, Village & P.O Charatgarh, Tehsil Una and District-Una (H.P) for a period of one year and the extension was issued for another year from 05-02-2020 to 04-02-2021 the leased block is part of river bed of Soan River, tributary of River Satluj. The area comprises of Khasra No. 1460/2, 1461/2 & 1350 (Pvt. Land) measuring 01-79-70 hectares falling in Mauza - Charatgarh, Tehsil Una, and District Una (H.P).

**1.2.2 Details of the Project Proponent:**

The details of the project proponent are given below:

**Table 1.1**

<b>Name of the applicant</b>	<b>Shri Praveen Kumar</b>
Name & Address of applicant	Village & P.O Charatgarh Tehsil- Una and District Una (H.P).
Name of Mine	Sand and Bajri Mining Project By Shri Praveen Kumar
Mineral	Sand and Bajri
Area (ha)	01-79-70 Ha
Location	Mauza-Charatgarh, Tehsil Una, and District Una Himachal Pradesh
Status of Project	New

**Detail of Existing Leases in 500 m Periphery (Cluster area):**

Sr. No.	Name of project	Khasra No.	Area in hect.	Mauza /Mohal	Status of Mine
1	Sh. Ajay Sharma	1930/2,1929/2, 1928/2	3-12-51, Pvt land	Khanpur	Operational
2	Sh. Manav Khanna	1935	1-39-00, Pvt land	Khanpur	LOI issued
3	Sh. Surinder Kaur	1332	1-24-79, Pvt land	Chartagarh	Applied

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### 1.3 BRIEF DESCRIPTION OF PROJECT

Mining of Sand and Bajri will be carried out only up to a depth of 1 m (3 feet) depth, using hand tools like shovel, pan etc only during the day time. The applicant intends to mine Sand and Bajri from the lease area. Mining will be confined to the applied lease area lies in the bed of Soan River. No rotational mining is proposed, complete mineable area shall be explored every year. The applied mining lease area is 01-79-70 hectare Situated in Mauza Charatgarh, Tehsil Una, and District Una (H.P). No drilling & blasting is proposed. The proposed capacity of collection of Sand and Bajri will be 31,680 TPA.

#### 1.3.1 Size

It has been proposed to extract around 31,680 tonnes per annum of Sand and Bajri, the extracted materials will get replenished during every monsoon season. The area comprises of Khasra No. 1460/2, 1461/2 & 1350 (Government Land) measuring 01-79-70 hectare falling in Mauza Charatgarh, Tehsil Una, and District Una (H.P).

The entire stretch of mining lease area is Private land which is a part of bed of Soan River. The proposed project is manual extraction and collection of Sand and Bajri from bed of Soan River up to one meter (3 feet) depth.

#### 1.3.2 Location

Mining will be confined to the allotted lease area lies in the bed of Soan River. The mining lease area is 01-79-70 hectare Situated Mauza-Charatgarh, Tehsil Una, and District Una (H.P). The site is approachable from Una-Santokhgarh road at a distance about 1.25km from Road head. The lease area lies in the Soan River and the nearest road link from Una is about 13 km from the lease area. The co-ordinates of the mine lease area are: *(Map showing pillar coordinates of applied lease area attached as Map no-IV.)*

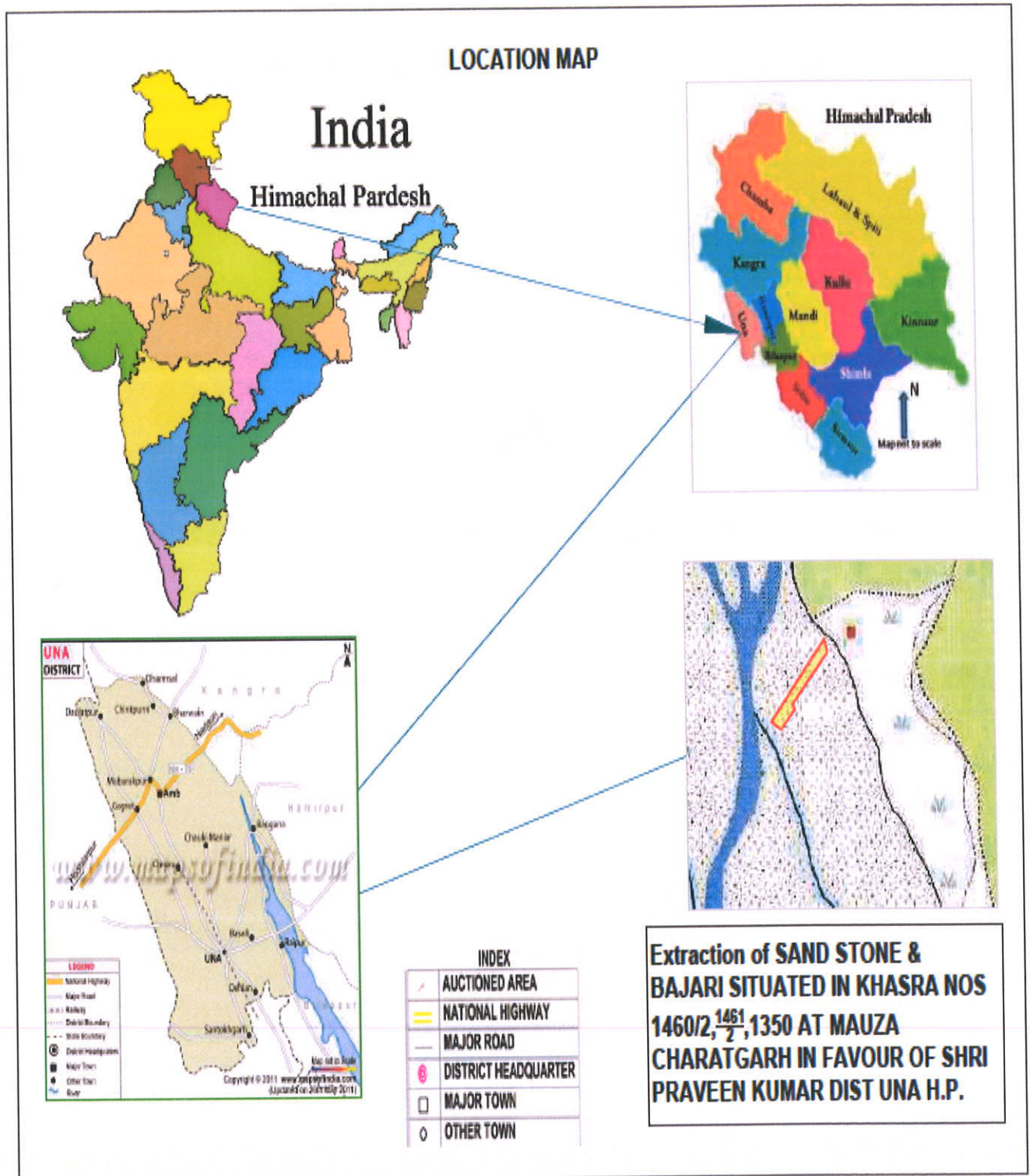
Latitude :  $31^{\circ} 37'60.73'' N$ -  $31^{\circ} 37' 35.75'' N$

Longitude:  $76^{\circ} 29'83.87'' E$ -  $76^{\circ} 29'58.63'' E$



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FIGURE 1.1: LOCATION MAP





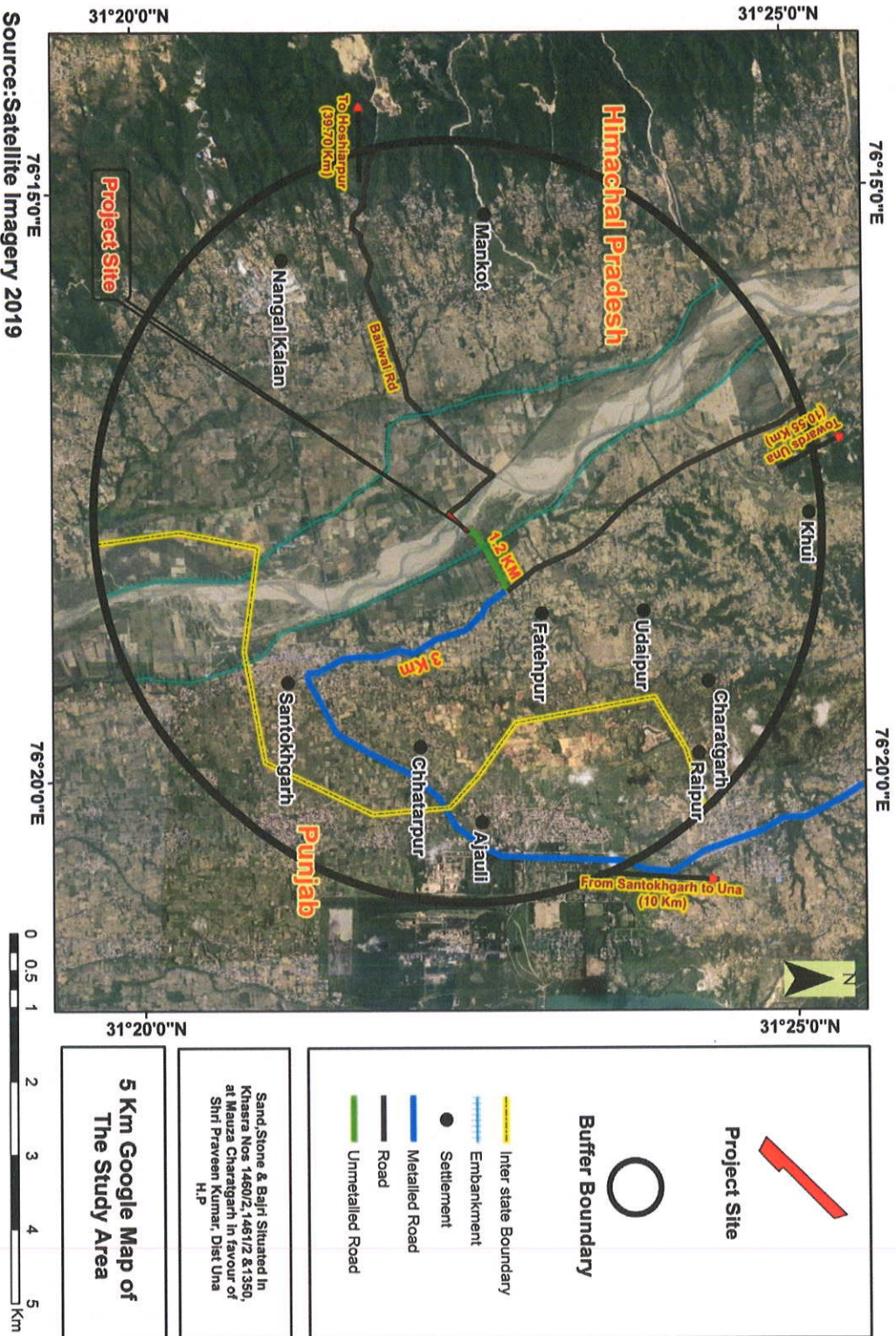


Figure 1.2 : Google Imagery of the Mining Lease



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### 1.3.3 Connectivity Details

Table 1.2

Connectivity Details		Crow Fly Distance
Nearest Railway Station	Raimehatpur Railway Station	About 3.8 km in NNE direction
Nearest Airport	Jalandhar Airport	About 52 km away in NW direction
Nearest Highway	SH-25	Approx. 4.5 km In East direction

### 1.3.4 Project's importance to the country and the region

The demand of bajri and sand in the area is increasing day by day both for private construction activities and infrastructure development by the Government Agencies. The State Governments has launched several projects of road construction, road widening, bridge construction and buildings for offices, school and other social activities. Thus, the extracted mineral from the mining lease area contribute to the development of infrastructure and prosperity of the area/region.

### 1.4 REGULATORY COMPLIANCES & APPLICABLE LAWS/REGULATIONS

- a) There is no legal case against the project and project proponent.
- b) There is no 'wild life sanctuary, biosphere reserve, nation park etc. within ten kilometers of the mining lease except some protected forests.

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1.4.1 The Consultant -The studies were undertaken by The Consultant namely, N.S. Enviro-Tech Laboratories & Consultant ('NSETLC'). NSETLC is a National Accreditation Board for Education and Training (NABET) Accredited Consultant Organization (ACO) and is qualified to prepare EIA reports for Project / Activity 1(a) (Mining of Minerals), a mandatory requirement for agencies submitting such studies to regulators for the purpose of seeking EC.

### 1.5 Generic Structure of EIA Report

The structure of this report follows the generic structure of Environment Impact Assessment document provided in Appendix III of EIA Notification, 2006. The report, complete with necessary tables, drawings and annexes is as follows:

#### List of Abbreviation

Chapter-1	:	Introduction and Background
Chapter-2	:	Project Description
Chapter-3	:	Description of Environment
Chapter-4	:	Anticipated Environmental Impacts and Mitigation Measures
Chapter-5	:	Analysis of Alternatives
Chapter-6	:	Environmental Monitoring Program
Chapter-7	:	Additional Studies
Chapter-8	:	Project Benefits
Chapter-9	:	Environmental Management Plan
Chapter-10	:	Summary and Conclusion

  
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Chapter-11 : Disclosure of Consultant Engaged

### 1.6 SCOPE OF THE STUDY

The Standard Terms of Reference (TOR) which have been issued on Oct. 2020 during by SEIAA, H.P. For seeking environmental clearance for mining of Sand and Bajri in the applied mining lease area measuring 01-79-70 hectare falling under category "B1". The lease area lies near Mauza Charatgarh, Tehsil Una, and District Una, Himachal Pradesh The points given in the TOR has been considered and its compliance is as under:-

#### Point Wise Compliance for TOR

Table 1.3

S.No	TOR	Compliance	Reference in the EIA Report
1	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.	This is the new case hence no prior production was done.	Copy of Letter of Intent attached as Annexure II.
2	A copy of document in support of fact that the proponent is the rightful lessee of the mine should be given.	Sh. Praveen Kumar is the right full lessee of the proposed mine, reference document attached with this report.	Copy of Letter of Intent attached as Annexure II.

  
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3	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.	The production figures, lease area, waste generation, mining technology in mine plan and EIA report are compatible with each other.  For this project Public Hearing is Not Applicable.	Mentioned in Chapter 2, Working cum environment management plan.
4	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).	High resolution Imagery/ Toposheet with corner coordinates of the mine lease area has been incorporated in the chapter I of the report.	Given in chapter-I
5	Information should be provided in survey 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.	Survey toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area attached with report	Buffer map will be attached with final report..
6	Details about the land proposed for mining activities should be given with information as to whether mining conforms to the	Mining will be confined to the allotted lease area lies bed of Soan River. The mining lease	Copy of Letter of Intent attached as

  
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	land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.	area is 01-79-70 hectare Situated in Mauza Charatgarh, Tehsil Una, and District Una (H.P).	Annexure II.
7	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 EIA Report.	Environment policy mentioned in the report.  Yes, the policy is prescribed for all standard operating process/procedure.	
8	Issues relating to Mine Safety,	Mining will be carried	Proper personal

  
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	including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.	manually. No blasting will be carried.	protective Equipments will be provided to the workers.
9	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.	The 5 km area around the periphery of the lease Area has been taken as study area for the purpose of EIA.  The data contained in the EIA Report is given for 5 years for which mine plan has been prepared.  The Production generation details are given in the report.	5km buffer map is attached in final report.

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10	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.	Surface plan & Working of the lease area is attached with the EIA/EMP Report showing the pre-operational, operational and post-operational phases.	Surface plan & Working of the lease area is attached with the EIA/EMP Report as annexure VI & VIII along with working plan and also showing the pre-operational, operational and post-operational phases.
11	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.	Silt/clay shall be generated as a waste which will be further use for leveling and plantation purpose.  <i>Source: Approved Mine Plan</i>	Surface plan & Working of the lease area is attached with the EIA/EMP Report as annexure X.
12	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	Project is lies on the bed of Soan River which is not under possession of forest Department.	NOC slip attached as Annexure X.

  
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	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.		
13	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.	Project is lies on the bed of Soan River which is not under possession of forest Department.	NOC slip attached as Annexure X.
14	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.	Project is lies on the bed of Soan River which is not under possession of forest Department.	NOC slip attached as Annexure X.
15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.	There are few reserved forests present within the study area. Study for Flora and Fauna has been done, List of	Authenticated list of flora and Fauna will be attached in final Report

  
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		vegetation in the RF/PF is incorporated in the report.	
16	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.	There is no wildlife or any protected area present within 10 km radius of the lease area.	Incorporated chapter IV
17	Location of National Parks, Sanctuaries, Biosphere Reserves, wildlife Corridors, 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, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the state Wildlife Department / Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.	There is no 'wild life sanctuary, biosphere reserve, nation park etc. within ten kilometers of the mining lease except some protected forests	5km Google map attached

  
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18	<p>A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out covering both terrestrial and aquatic flora and fauna. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on field survey clearly indicating the Schedule of the fauna present, in case of any schedule-I fauna found in the study area, the necessary plan 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 project cost.</p>	<p>Detailed Biological study along with the list of flora &amp; fauna is given in the report. There is no schedule I fauna found in the study area.</p>	<p>Authenticated list of flora and Fauna will be attached in final report</p>
19	<p>Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (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 Department should be secured and furnished to the effect that</p>	<p>Proposed project is not located in the Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations)</p>	<p>Coordinates of the proposed project mentioned.</p>

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	the proposed mining activities could be considered.		
20	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).	Proposed project is not located in the coastal zone	Not Applicable for this project
21	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	R&R Plan/compensation details for the Project Affected People (PAP) are not applicable for this project as this project is located on the bed of Soan River.	--

  
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	<p>village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&amp;R and socio-economic aspects should be discussed in the Report.</p>		
22	<p>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</p>	<p>Base line study was done from October'20-December'20 and the details are given in Chapter III</p> <p>Site-specific meteorological data has been collected and shown in the report.</p> <p>Date wise collected baseline AAQ data is enclosed with the report.</p> <p>It has been ensured that at least one monitoring station is within 500 m of the mine lease in the pre-dominant downwind direction.</p>	<p>Chapter III</p> <p>Chapter III</p>

  
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	composition of PM10, particularly for free silica, should be given		
23	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 vehicle for transportation of mineral. The details of the model used and input parameters used for modeling 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 rose showing pre-dominant wind direction may also be indicated on the map.	Monitoring details incorporated in the report	
24	The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should be indicated.	Total water requirement for the project is 2.7 KLD, including 1.0 KLD for dust suppression and 0.7 KLD for plantation and 1.0 KLD for domestic purpose. Water Requirement for drinking purpose and for dust suppression will be fulfilled from private borewell situated at private land khasra no 543 (Jamabandi	

  
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		and tatima attached for reference) at a distance about 1km, this water will be supplied through tanker. Water affidavit attached with the report.	
25	No mechanized mining/blasting shall be carried out.	The mining shall be taken manually with the use of hand tools, shovels, Pans etc. The material will be extracted and loaded directly into tipper truck by the workers themselves. The operation will be done in day time only, so there is no power requirement for the mining activity.	Working cum environment management Plan attached as Annexure III
26	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.	No check dams are proposed as the adjoining land belongs to different private individuals. Moreover, the mining operations shall have no impact on the banks in any way.  Source: Approved Mine Plan	Working plan Letter for 5 year attached as Annexure III.
27	Impact of the project on the water quality should be assessed and necessary safeguard measures, if any required should be provided.	The area being part of the River which receives annual rainfall, the mining area will get replenished during every rainy (monsoons) season. As abundant precaution, keeping in view the variation in rainfall particularly	Chapter IV.

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		<p>highest rainfall, which generally causes floods, the factor of eight cm annual replenishment is taken into consideration in general.</p> <p>Keeping in view of the replenishment factor, no rotational mining has been proposed. The complete mineable area shall be explored every year.</p> <p>Though the major mining activities will be under taken during the dry seasons and it proposed as per approved mining plan that mining will be carried out up to 1m bgl whichever comes first, hence no such impact will occur</p> <p><i>Source Approved mining Plan.</i></p>	
28	<p>Based on actual monitored data, it may clearly be shown whether working will intersect groundwater.</p> <p>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-</p>	<p>The area being part of the River which receives annual rainfall, the mining area will get replenished during every rainy (monsoons) season. As abundant precaution, keeping in view the variation in rainfall particularly highest rainfall, which generally causes floods, the factor of eight cm annual replenishment is taken into</p>	<p>Approved mining plan Letter is attached with the report</p>

  
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	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.	consideration in general.  The proposed project is manual extraction and collection of Sand and Bajri from bed of Soan River up to 1 meter bgl whichever comes first.			
29	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 brought out.	The entire stretch of mining lease area is Private which is a part of bed of Soan River.			
30	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.	<table border="1"> <tr> <td>Site Elevation</td> <td>Highest- 341m above MSL  Lowest- 341m above MSL</td> </tr> </table>	Site Elevation	Highest- 341m above MSL  Lowest- 341m above MSL	Source: Approved Mining Plan
Site Elevation	Highest- 341m above MSL  Lowest- 341m above MSL				
31	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	It is proposed to plant around 118 trees every year for 5 years during monsoon season along the haul roads.	Details mentioned in Chapter II		

  
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	<p>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.</p>		
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32	<p>Impact on local transport infrastructure due to the Project should be indicated.</p> <p>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.</p>	<p>There will be 13 trucks carrying the minerals per hour. The impact due to this has been detailed in the report.</p>	<p>There will be 13 trucks carrying the minerals per hour. The impact due to this has been detailed in the report.</p> <p>Maintenance of the roads will be carried out properly and alternative route pattern will be adopted in order to avoid any type of congestions.</p>
33	<p>Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.</p>	<p>Temporary rest shelters along with site services will be provided to the workers at mine site.</p> <p>Mine Office with. First aid station and Store for mining equipment.</p>	-
34	<p>Conceptual post mining land use and Reclamation and</p>	<p>The area being part of the River which receives annual</p>	Chapter IV.

  
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	Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report	rainfall, the mining area will get replenished during every rainy (monsoons) season. As abundant precaution, keeping in view the variation in rainfall particularly highest rainfall, which generally causes floods, the factor of eight cm annual replenishment is taken into consideration in general.	
35	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.	Each labour will undergo pre-placement medical examination. Thereafter they will be medically checked up half yearly for which tie up will be done with nearest PHC's.  Impact on health is expected to be least for such mining projects.	Chapter VII
36	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.	The mining shall be taken manually with the use of hand tools Such impact will not occur due to project.	

  
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37	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.	Socio-economic influence will be positive as there will be potential availability of employment, improvement of physical and social infrastructures etc.  In addition CSR has also proposed.	Chapter VI  Chapter VII
38	Detailed environmental management plan to mitigate the environmental impacts, specific safeguard measures to control PM10 as well as pollution due to transportation should be given.	Detailed environmental management plan to mitigate the environmental impacts are discussed in the report.  Safeguard measures to control PM <sub>10</sub> has also been given.	Chapter IV
39	Public hearing points raised and commitment of the project proponent on the same along with the time action plan to implement the same should be provided if applicable.	Public Hearing yet to be conducted.	---
40	Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.	There is no litigation pending against the project.	
41	The cost of project (capital cost and recurring cost) as well as the cost towards implementation of EMP should	Cost towards implementation of EMP is given in the report.	Chapter - VIII

  
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	clearly be spelt out.		
42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report	Mining of Sand and Bajri will be carried out manually with the use of hand tools and shall be directly transported to the market as per demand.	As per approved mining plan
43	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.	There is large demand of Sand and bajri for construction activities in the region. It is essential raw material for construction of buildings, roads, bridges; check dams, etc in the area.	

44-Besides the above , the below mentioned general points should also be followed :-

a	Executive Summary of the EIA/EMP Report	Executive Summary of the EIA/EMP Report is attached with the report.	complied
b	All documents to be properly referenced with index, page numbers and continuous page numbering.	Complied	
c	Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated	Relevant details have been mentioned in EIA-EMP Report.	
d	Project Proponent shall enclose all the	Compiled	Monitoring has been carried out

  
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	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.		by the NABL approved lab only.
e	Where the documents provided are in a language other than English, an English translation should be provided.	Compiled	--
f	The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.	Enclosed	"
g	While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF from time to time should also be followed.	Instructions for the proponents and instructions for the consultants issued by MoEF from time to time has taken in consideration while preparing the EIA report and will be followed.	--
h	Changes, if any made in the basic scope and project parameters (as submitted	Enclosed	Form1 and PFR attached with the report.

  
EIA Coordinator

DRAFT EIA/EMP REPORT OF SAND AND BAJRI MINE. TOTAL AREA IS 1-79-70 HECTARE, LOCATED NEAR VILLAGE CHHARATGARH, TEHSIL & DIST- UNA (H.P)

	<p>in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF &amp; CC with reasons For such changes and permission should be sought, as the TOR may also have to be altered.</p> <p>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.</p>		
i	<p>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.</p>	Noted	

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j	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.	Noted	--
<p>Addition conditions are included given in standard Terms of References as published by MoEF&amp;CC, Gol afresh for Mining of Minerals, for the purpose of preparing Environment Impact Assessment Report, EMP for obtaining prior Environment Clearance with public consultation.</p>			
1.	The project proponent shall make provision to provide two plastic waste shredders, two plastic waste ULBs/PRI's as per the recommendations of Department of Environment, Science & Technology, GoH.	Agreed & Noted	