

FORM I

APPENDIX I

(See paragraph – 6)

FORM 1

(I) Basic Information

S.No.	Item	Details
1.	Name of the project/s	Simariya Stone Deposit
2.	S. No. in the schedule	SI. No. 1(a) mining of mineral is categorized in category
3.	Proposed capacity /area /length /tonnage to be handled/command area/lease area/number of wells to be drilled	Proposed Capacity- 219264.41 TPA of Stone Area - 6.07 ha
4	New/Expansion/Modernization	New
5.	Existing Capacity/Area etc.	Area – 6.07 ha
6.	Category of Project i.e. ‘A’ or ‘B’	‘B2’
7.	Does it attract the general condition? If yes, please specify.	No
8.	Does it attract the specific condition? If yes, please specify.	No
9.	Location	Latitude : 25 ⁰ 13’ 21.69” - 25 ⁰ 13’ 38.69” N : Longitude : 87 ⁰ 34’ 28.60” – 87 ⁰ 34’ 32.4” E
	Plot/Survey/Khasra No.	Plot No. 155(P), 159(P), 160, 161(P), 163(P), 171, 172, 175(P), 176(P), 177(P), 178, 179, 180, 181(P), 190(P), 191(P), 192(P) & 193(P), Thana: Jirwabari, District Sahibganj.
	Village	Simariya
	Thana	Jirwabari
	District	Sahibganj
	State	Jharkhand
10.	Nearest railway station/airport along with distance in kms.	Karamtola Railway Station is about 4.0 km in NW direction.

		Durgapur Airport is about 195 km in SW direction.
11.	Nearest Town, city, District Headquarters along with distance in kms.	Town-Ganga Prashad (about 4 km in NE direction) Headquarter- Sahibganj (about 6.0 km in NE direction)
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	Village: Simariya Thana: Jirwabari, Dist. Sahibganj
13.	Name of applicant	M/s Pawanputra Stone Works
14.	Registered Address	<u>Partner</u> -Sri Sukhdeo Yadav, S/O Ram Girish Mahato, Village- Sirisiya P.O. – Palojori-Sarwan, District: Deoghar, 814146, Jharkhand.
15.	Address for correspondence	
	Name	Sri Sukhdeo Yadav
	Designation (Owner/Partner/CEO)	Partner
	Address	S/o Ram Girish Mahato, Village- Sirisiya P.O. – Palojori-sarwan, District: Deoghar, 814146, Jharkhand.
	Pin Code	814146
	E-mail	Sukhdevyadavmine@gmail.com
	Telephone No.	--
	Fax No.	
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet	The mineral is site specific & the lessee has granted mining lease to mine stone for the specified lease area. Thus no alternatives site is proposed.
17.	Interlinked Projects	There is no interlinked project
18.	Whether separate application of interlinked project has been submitted?	Not Applicable
19.	If yes, date of submission	-
20.	If no, reason	Not Applicable
21.	Whether the proposal involves	

	approval/ clearance under: if yes, details of the same and their status to be given. (a)The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (C) The C.R.Z Notification, 1991?	No	
22.	Whether there is any Government Order/Policy relevant/relating to the site?	No	
23.	Forest land involved (hectares)	No forest land involved	
24.	Whether there is any litigation pending against the project and /or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. (c) Orders/directions of the Court, if any and its relevance with the proposed project.	No litigation pending against the project	
(II) Activity			
1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)			
S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	Yes	The mining will be done by Opencast method. There will be permanent changes in land use, land cover and topography.
1.2	Clearance of existing land, vegetation and buildings?	Yes	The total area is waste land, before mineral extraction the area will be required to be

			cleared of bushes, if any
1.3	Creation of new land uses?	Yes	The mining activity will result in pits, therefore land use of ML area will be changed. The barrier zone will be planted and mined out area will be reclaimed.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	No borehole or soil testing was done before commencement of mining operation.
1.5	Construction works?	Yes	Construction of offices, rest shelter, Store and water supply, First Aid center etc.
1.6	Demolition works?	No	No demolition work involved
1.7	Temporary sites used for construction works or housing of construction workers?	No	Local labour will be employed who will go back to their home after day work hence no temporary sites for mining workers will be constructed.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	Above Ground Structure: Construction of offices, rest shelter, First Aid center etc. Earthworks: Excavation operations..
1.9	Underground works including mining or tunneling?	No	This is an opencast mining project, no Underground works including mining or tunneling involved.
1.10	Reclamation works?	Yes	Simultaneously green belt will be developed, and after complete exploitation of mineral, some area of the lease will be backfilled and remaining will be converted into water reservoir
1.11	Dredging?	No	No dredging will involved.
1.12	Offshore structures?	No	No offshore structure will be involved
1.13	Production and manufacturing processes?	Yes	This production will cause change in land use due to excavation of mineral
1.14	Facilities for storage of goods or materials?	Yes	Temporary storage may be required in the quarry, before the same is transported to its

			destination.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p>I. Waste generated will be used as second grade mineral and it is used for backfilling as well as maintenance of approach road.</p> <p>II. No Liquid waste will be generated from mine lease area.</p>
1.16	Facilities for long-term housing of operational workers?	No	There will be no long-term housing provided within the lease area as the local persons will be given employment
1.17	New road, rail or sea traffic during construction or operation	No	There is no need to construct new road, rail or sea traffic as existing network is sufficient.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	Existing facilities are sufficient. No new road/rail will be required.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	There is no closure or diversion of existing routes or infrastructure for the proposed project.
1.20	New or diverted transmission lines or pipelines?	No	There are no new or diverted transmission lines or pipelines in the project site.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	As ultimate depth of mining will be much higher than the ground water table, it will not cause any change to the hydrology of watercourses or aquifers.
1.22	Stream crossings?	No	There is no stream crossing in the mine lease area.
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Total water requirement is about 4.31 KLD= 1.71 KLD (Drinking & Domestic Uses) + 1.8 KLD (Dust Suppression) + 0.8 KLD (Green Belt) this water will be supplied from nearby villages.

1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	The extraction of stone will lead to formation of pit, which will hold rain water and hence will have positive impact on environment.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	No	There is no Transport of personnel or materials for construction, operation or decommissioning in the mine lease area.
1.26	Long-term dismantling or decommissioning or restoration works?	Yes	During mining operations, the mined out area would be reclaimed as water reservoir, and it will be properly fenced off from all entries as per statute.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	Yes	The extraction of stone will lead to formation of pit, which will hold rain water and hence will have positive impact on environment.
1.28	Influx of people to an area in either temporarily or permanently?	No	Mostly local people will be deployed to carry out stone extraction. So no influx of people will be seen.
1.29	Introduction of alien species?	No	There would be no introduction of any alien species since local species would be preferred for the plantation.
1.30	Loss of native species or genetic diversity?	No	There will not be any loss of native species or genetic diversity as there is no vegetation or forest cover within the ML area
1.31	Any other actions?	No	No other actions would be involved for the excavation of the mineral.

2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

S.No.	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	No	There is no Agriculture land in the mine lease area.
2.2	Water (expected source & competing users) unit: KLD	Yes	Total water requirement is about 4.31 KLD= 1.71 KLD (Drinking & Domestic Uses) + 1.8

			KLD (Dust Suppression) + 0.8 KLD (Green Belt) this water will be supplied from near by villages. .
2.3	Minerals (MT)	No	No mineral will be used for the proposed project on the other hand 219264.41 TPA quantity of stone is excavated which is a construction material.
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	No	There is no construction needed in lease area hence no construction material is used. On the other hand, the mine will produce stone, which is construction material.
2.5	Forests and timber (source – MT)	No	No forest and timber products are required in the proposed project.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Diesel will be used in Tractors & JCB.
2.7	Any other natural resources (use appropriate standard units)	No	No other natural resources will be used.
3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.			
S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
3.1	Any other natural resources (use appropriate standard units)	Yes	Ammonium Nitrate/ Fuel Oil (ANFO) are frequently used for blasting operation. Ammonium nitrate as such readily soluble in water. Hence has to be stored in dry place. HSD consumption not is much in equipment and machinery, which will be on hire basis. Hence, impact will be insignificant
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Not envisaged

3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	This project will provide livelihood to the workforce during the operation which will help in improving their living conditions.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	No Vulnerable groups of people will be affected by the project as entry of unauthorized person in the mining lease area will be prohibited.
3.5	Any other causes	Yes	On long term basis person working in the mine can be affected by silicosis, however all precautions will be taken including provision of dust mask. The mine worker will also be examined every year as per statutory provision.

4. Production of solid wastes during construction or operation or decommissioning (MT/month)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	Yes	Negligible amount of waste will be generated during the plan period which will be used in backfilling as well as maintenance of approach road.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Insignificant amount domestic waste will be generated by the labours at site which will be treated in septic tank followed by soak pit.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	No Hazardous waste (as per Hazardous Waste Management Rules) will be generated.
4.4	Other industrial process wastes	No	There is no industrial process involved in the project.
4.5	Surplus product	No	The entire mined out product shall be sold to the consumer.
4.6	Sewage sludge or other sludge from effluent treatment	No	There is no effluent treatment plant in the proposed project.

4.7	Construction or demolition wastes	No	No construction or demolition work involved.
4.8	Redundant machinery or equipment	No	There is no requirement of redundancy of machineries, as the machineries are movable and will be used elsewhere.
4.9	Contaminated soils or other materials	No	No contamination of soil or other material will be involved
4.10	Agricultural wastes	No	Not Applicable
4.11	Other solid wastes	No	No other solid waste is generated.
5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)			
S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	There will be emissions from trucks engaged for transportation. It is managed by the following methods:- <ul style="list-style-type: none"> • Proper maintenance of vehicles and machines. • PUC certified vehicles will be allowed for transportation purposes.
5.2	Emissions from production processes	Yes	There will be dust emission from production process. However, proper mitigative measures such as water sprinkling and plantation would be done to control dust pollution. Dust will also be generated during drilling blasting operation which will be taken care by proper mitigation measure
5.3	Emissions from materials handling including storage or transport	Yes	Movement of vehicles like dumpers, trucks, tankers etc. will also generate dust. The transportation activities on unpaved area results in fugitive emissions. This dust is controlled by regular water sprinkling on the site, dispatch trucks carrying ore will be covered with tarpaulin, all service roads made boulder packed and water sprayed regularly.
5.4	Emissions from construction	No	No construction activity will be carried out at

	activities including plant and equipment		site so there will be no emission from any such activities.
5.5	Dust or odors from handling of materials including construction materials, sewage and waste	No	There would be no dust or odors from handling of construction materials since there is no construction proposed at the site.
5.6	Emissions from incineration of waste	No	No such waste will be generated, which may be incinerated.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	No waste of any kind will be burn in the open air.
5.8	Emissions from any other sources	No	There is no other source of emission.

6. Generation of Noise and Vibration, and Emissions of Light and Heat:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Noise level in the working areas of quarry would increase to some extent due to use of tractors, drill & blasting etc.
6.2	From industrial or similar processes	No	There will not be any industrial process involved.
6.3	From construction or demolition	No	Not applicable, as no construction or demolition is proposed.
6.4	From blasting or piling	Yes	Due to blasting in the mining area some noise and ground vibration is inescapable.
6.5	From construction or operational traffic	Yes	Noise will be generated from vehicular movement. In order to have a check on it, PUC certified vehicles will be deployed for the operations.
6.6	From lighting or cooling systems	No	No lighting or cooling systems are involved.
6.7	From any other sources	No	No other source generate noise & vibration, heat etc.

7. Risks of contamination of land or water from release of pollutants into ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	There will be no handling, storage, use or spillage of hazardous materials.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	No effluent and sewage will be generated from the proposed project operations.
7.3	By deposition of pollutants emitted to air into the land or into water	No	Dust emission will be limited to the site itself which will be suppressed by regular water sprinkling.
7.4	From any other sources	No	There is no other source from which risk of contamination is anticipated.
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	There is no risk of long term buildup of pollutants in the environment from the proposed project operations as frequent dust suppression would be done in mining area and surrounding roads.
8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment			
S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	Yes	There is possibility of accident due to handling/use of explosive material. The risk will be mitigated by following the procedure and precautions as per MMR 1961.
8.2	From any other causes	Yes	There may be very little chances of health problems because of handling of mineral material.
8.3	Could the project be affected by natural disasters causing	No	Since project site comes under Seismic zone II, so there is Moderates risk of any natural

	environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?		disaster.
9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality			
S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	Lead to development of supporting facilities ancillary development or development stimulated by the project which could have impact on the environment e.g.: <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • Housing development • Extractive industries • Supply industries • Other 	No	The proposed project will not lead to any ancillary development thus; will not pose a adverse cumulative impact with any other planned activity in the locality on environment.
9.2	Lead to after-use of the site, which could have an impact on the environment	Yes	The entire area will be reclaimed at the end.
9.3	Set a precedent for later developments	Yes	A better after use scenario, which is likely to increase aesthetic beauty of the area by doing plantation on reclaimed area, developing the area as the picnic spot.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	Yes	There are other mining projects located near the mine site. There is likelihood of cumulative effect due to transportation of minerals.
(III) Environmental Sensitivity			

S.No.	Areas	Not applicableme/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil	--
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Nil	
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration resting, over wintering, migration	Nil	
4	Inland, coastal, marine or underground waters	Nil	--
5	State, National boundaries	Yes	9.64 km in West Direction.
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	NH-80 SH 18	About 4 km in NE direction About 8 km in NE direction
7	Defense installations	Nil	
8	Densely populated or built-up area	Yes	Karamtola about 4.0 km NW
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	Sandhya Inter College Sahibganj College	About 6 km in NE direction About 7 km in NE direction
10	Areas containing important, high quality or scarce resources (<i>ground water resources, surface resources, forestry, agriculture,</i>	Nil	Nil

	<i>fisheries, tourism, minerals)</i>		
11	Areas already subjected to pollution or environmental damage. <i>(those where existing legal environmental standards are exceeded)</i>	Nil	Not any
12	Areas susceptible to natural hazard which could cause the project to present environmental problems <i>(earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)</i>	No	