

Case No 664/2012

E.C. COMPLIANCE REPORT

OF

TAMORIA LIMESTONE & DOLOMITE MINE

Area - 42.567 Hect.
Village - Tamoria
Tehsil - Maihar
District - Satna
Sate - Madhya Pradesh

Lessee :-

S.N.S. (Minerals) Private Limited

N.H. -7, Rewa Road, Maihar
Tehsil –Maihar, District- Satna (M.P.)
Pin Code – 485771
Phone – (07674) 232042, 232089
Fax – (07674) 232580
e-mail : snsmhr@gmail.com

DECEMBER - 2024

INDEX

(1) E.C. Compliance

(2) Annexure

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Dated ...01.12.2024

To
The Additional Principal Chief Conservator of Forest (Central)
Regional Office
Western Region, Kendriya Paryavaran Bhawan
Link Road No.3, Ravi Shankar Nagar
Regional Office of Ministry of Environment & Forest
BHOPAL - 462016 (M.P.)

Subject: Status of Compliance of the Environment Clearance granted by the M.P. SEIAA vide Letter No. 1431/SEIAA/14 dated 22.10.2014 in respect of our Tamoria Limestone & Dolomite Mine, in Village: Tamoria, Tehsil: Maihar, District: Satna (M.P.) over an area 42.567 Hect.

Ref: (1) Environment Clearance granted by the M.P. SEIAA vide Letter No. 1431/SEIAA/14 dated 22.10.2014.
(2) EC amendment for change in the name granted by the M.P. SEIAA vide Letter No. 1150/SEIAA/2021 dated 10.06.2021.

Dear Sir,

With reference to the aforesaid. We are herewith submitting the point wise compliance of the Environment clearance.

Sl. No.	Statement of Condition	Compliance Status / Commitment
1	Any addition of the mining area, change of Khasra numbers, enhancement of capacity, change in mining technology, modernization and scope of working shall again require prior environmental clearance as per EIA notification,2008	There is no addition of the mining area, change of Khasra numbers, enhancement of capacity, change in mining technology, modernization and scope of working in the present project from the granted Environment Clearance.
2	All activities / mitigative measures proposed by PP in Environmental Impact Assessment and approved by SEAC must be ensured.	The mitigative measures suggested based on the impact assessment for Air, Water, Noise & Soil quality management is ensured and implemented. Dust suppression measures are consistently taken. Wet drilling is being done and dust extractors are being attached with drill equipment. Transportation is being done by covered trucks. Plantation has been carried out by the sides of the haul road. Budget along with number and species has been furnished in annexure. PPE has been provided to the workers.
3	All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.	All pollution control measures as well as activities planned for betterment of Environment is strictly implemented.
4	All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.	The monitoring report is appended as Annex.4.
5	Blast vibrations study shall be conducted and submitted to the	Drilling & Blasting is carried out as per the directives and guidelines of DGMS. Blast

Sl. No.	Statement of Condition	Compliance Status / Commitment
	Regional Office, MoEF, Gol, Bhopal and MP PCB within six months . The study shall also provide measures for prevention of blasting associated impact on nearby houses and agricultural fields.	vibrations study has been conducted by IT BHU and has been submitted to the Regional office of the Ministry along with compliance Reports. No any adverse impact has been reported or noticed due to blasting. There is no habitation within 1Km radius of ML area or blasting danger zone.
6	Controlled blasting techniques with sequential drilling shall be adopted the blasting shall be carried out in the day time only.	Controlled blasting is being done using delay detonator to prevent flying fragments. Over charging of holes is not being done. Proper stemming of hole is being done. Spacing is more than burden. Sequential drilling is adopted. The blasting is carried out in the day time only. The type of initiating device for conducting blasting operation is shock tubes of Non electric type(NONEL/ RAYDED etc.) or electronic detonator type.
7	Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines.	The ultimate pit limit is 7.5m from lease boundary as per MMR 1961.The benches are of height up to 6.0m in OB & 9.0m in mineral limestone. The width is not less than the height. The faces are sloped at 45 degrees angle. The working is carried out as per approved Mining Plan as well as norms of DGMS.
8	A final mine closure plan along with details of Corpus Fund, shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB within 5 years in advance of final mine closure for approval.	A final mine closure plan will be submitted before 5 years in advance of final closure.
9	No change in the calendar plan including excavation, quantum of mineral and waste shall be made.	The period is as per the rules.
10	Mining will be carried out as per the approved mining plan. In case of any violation of mining plan, the Environmental Clearance given by SEIAA will stand cancelled.	The mining is being carried out as per the approved Mining Plan. The modification in approved Mining Plan will be carried out under rule 17 (3) of MCR 2016 if there is any deviation.
11	Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.	Adequate buffer zone by keeping sufficiently apart benches of OB and mineral is maintained. As per MMR 1961, 7.5m barrier is left from ML area boundary. The height of the bench is less than the width of the bench. Ore and OB benches are sufficiently apart so as to avoid intermixing of OB/waste and mineral.
12	The transportation of the minerals extracted from the mining area shall be limited to day hours time only.	The transportation of the Limestone & reject stone from the mining area to destination industry/Crusher is limited to day hours only.
13	Maintenance of nearby local roads through which transportation of	The mine is connected by N.H.-30 passing at 2 K.M. distance and then on Bathia -

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	minerals are undertaken shall be carried out by the company regularly at its own expenses. The roads shall be black topped.	Tamoria Mine road. This road is black topped by tarring up to Bhatia turning and then maintained by the lessee regularly at its own expenses. This is metalled. Rs. 100000 was spent for maintenance of the road through which transportation of minerals are undertaken during year 2023-24 & nearby roads under CSR activities.
14	Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable material and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.	For preventing soil erosion and siltation due to soil, garland drain and bund has been prepared along the boundary of the ML area. The drain is of cross section 1m x 0.5m. The dumps are compacted and vegetated. It is also being rehandled and simultaneously backfilled and re habilitated by way of afforestation. It is being planted with native trees. The dump is suitably terraced to avoid soil erosion. Settling Tank has been made at the corner of the drain and is de-silted regularly. The dump has been stabilized by plantation in 1.81 ha area.
15	Trenches / garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of check dams and gully plugs shall be constructed across seasonal / perennial Nallahs, if any, flowing through the ML area and silts arrested, De-silting at regular intervals shall be carried out.	Garland drain of size 1.0m x 0.5m with settling tank has been prepared towards the sloping boundary of the ML area in north, east and west to avoid siltation due to runoff. De-siltation of settling tank is done after rains. No seasonal/perennial nala flow through the ML area. No dumping has been proposed in future or is being practiced presently.
16	The project proponent will ensure necessary protection measures around the mine pit, waste dumps and garland drain.	The mine area has been suitably fenced and unauthorized entry has been prohibited. Plantation has been done in boundary. The existing dump has been suitably terraced of height less than 10 meters.
17	Top soil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (wherever applicable) for reclamation and rehabilitation of mined out area. Top soil shall be separately stacked for utilization later for reclamation and shall not be stacked along with over burden.	The top soil has been separately stacked up in 1.0 ha. area up to 13m height in north. The side has been sloped at 28 degree angle. Top soil is being used for topping of the backfilled area. The OB/ Mine Waste is being backfilled and soil used for topping and leveling. The top soil dump has been stabilised by plantation.
18	Overburden (OB) shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 20m, each	OB has been stacked at earmarked site. Over Burden (OB) is being simultaneously backfilled. The backfilled area is being vegetated with suitable native species.

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	stage shall preferably be of maximum 10m and overall slope of the dump shall not exceed 35°. The OB dump shall be backfilled and shall be scientifically vegetated with suitable native species to prevent erosion & surface run off.	
19	Minimum 1000 plants shall be planted in one year and 5000 plants shall be planted in first five years.	11050 plants have been planted in 5.28 ha so far. This includes green belt area (1.40 ha), plantation in backfilled area (2.07 ha) as well as plantation on dump (1.81 ha). Plantation has also been done in buffer zone by the side of the transport road. During first five years after grant of EC/CTO, 5000 plants were planted. The overall survival rate is 80% while 85% during last year. The cost incurred in plantation & its safety is Rs 2.60 Lakhs during the period 2023-24.
20	Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB on six monthly basis.	The backfilled area is being vegetated with suitable native species Teak, Neem, Pipal, Gulmohar, Mango, Karanj, Shisham, Kachnar, Gamhar, Jamun, etc. Monitoring and management of rehabilitated area will continue until the vegetation becomes self-sustaining. Compliance status will be submitted to the Regional Office of the Ministry of Environment & Forests.
21	By the end of the lease period 33% of the area should be brought under plantation.	By the end of lease period 14.067 ha. area out of total 42.567 ha. ML area will be brought under plantation. Thus more than 33% of the total ML area will be brought under plantation.
22	Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO / Agriculture Deptt. Herbs & shrubs shall also form a part of afforestation programme besides tree plantation. The company shall involve local people for plantation programme including rehabilitation of mined out area shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB every year.	Green belt is being developed in compliance of point number 19 & 20 of the condition of EC. The native plant species is being planted. Report is submitted every six months.
23	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of minerals and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. The vehicles	Vehicular emissions is kept under control and regularly monitored. Vehicles used for transportation of minerals and others have valid permissions as per Law. The vehicles transporting minerals are covered with a tarpaulin so that no dust particles / fine matters escape during the course of transportation. No overloading of minerals

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	transporting minerals shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of minerals for transportation shall be committed. The trucks transporting minerals shall not pass through wild life sanctuary, if any in the study area.	for transportation is being done as committed. No wild life sanctuary exists within the study area or within the transport route up to the destination.
24	Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RSPM, SPM, SO ₂ , NO _x , monitoring, Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. The monitored data for criteria pollutants shall be regularly up-loaded and displayed on the company's website.	Four ambient air quality monitoring stations have been established in the core zone as well as in the buffer zone for PM 10, PM _{2.5} , SPM, SO ₂ , NO _x monitoring. Location and frequency is in consultation with the State Pollution Control Board. The monitored data for criteria pollutants is being regularly monitored and sent to the SPCB. Copy appended as Annex.4.
25	Data on ambient air quality (RPM, SPM, SO ₂ , NO _x) should be regularly submitted to the Regional office, MoEF, Gol, Bhopal and the Sate Pollution Control Board / Central Pollution Control Board once in six months.	Data on ambient air quality (RPM, SPM, SO ₂ , NO _x) is being submitted to the MoEF, GoI, Bhopal and the State Pollution Control Board once in six months.
26	Ambient air quality at the boundary of the mine premises shall confirm to the norms prescribed in MoEF notification no. GSR/826(E) dtd. 16.11.09	Ambient air quality at the boundary of the mine premises confirms to the norms prescribed in MoEF notification no. GSR/826(E) dtd. 16.11.09
27	Fugitive dust emissions from all the sources shall be controlled. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained. The dust emission shall be monitored regularly as per norms and records to be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB regularly.	Water spraying arrangement has been made on haul roads, loading and unloading points and is properly maintained. The dust emission has been monitored regularly as per norms and records submitted to the MoEF and MP PCB regularly.
28	Measures shall be taken for control of noise levels below 75 dBA in the work environment. Workers engaged in operations of HEMM, etc., shall be provided with ear plugs / muffs and health records of the workers shall be maintained.	Plantation is being carried in boundary and machineries are properly maintained to control noise levels below 75 dBA in the work environment. The workers engaged in operation of HEMM, drilling and working in noise prone area are provided with ear plugs / muffs and health records of the workers

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29	Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Regional Office. MoEF, Gol, Bhopal and MP PCB within six months and thereafter every year from the next consequent year.	are maintained. Sump has been prepared of size 50m x 40m and 6m depth to provide adequate retention period to water. This help in recharging ground water table as well as make available water for sprinkling on road. No water is discharged in to any surface water source. The water from sump is used for mining & allied activities. The surplus water on demand by the local farmers and by the local community during pre-monsoon period is supplied free of cost.
30	Regular monitoring of ground and surface water source for level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year i.e. pre-monsoon (April-May), monsoon (August), post-monsoon 9november) and winter 9January) and the data thus collected shall be regularly sent to Regional Office, MoEF, Gol, Bhopal, MP PCB, Central Ground Water Authority and Regional Director, Central Ground Water Board.	Monitoring of ground and surface water sources has been carried. The working is done above water ground table & does not have any toxic contamination. The ground water is potable and confirm to IS specifications.
31	The waste water from the mine if any, shall be treated to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. The oil and grease trap shall be installed for the effluents generated from the workshop, if any, before discharging into the natural stream. The discharged water from the tailing dam, if any shall be regularly monitored and report submitted to the Regional Office, Ministry of Environment & Forest, Gol, Bhopal, Central Pollution Control Board and the State Pollution Control Board.	No waste water is generated. It is a zero discharge mine. No workshop exists or is proposed in the ML area. No tailing will be created in view of any beneficiation involved.
32	Hydro-geological study of the area shall be reviewed by the project proponent annually. In case adverse effect on gound water quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse impact on ground water is	The mining is restricted above ground water table. No adverse effect on ground water quality and quantity was reported & observed. The working has been done above ground water table.

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	implemented.	
33	Occupational health check up for the workers including identification of work related health hazards, training on malaria eradication. HIV and health effects on exposure to mineral dust etc, shall be carried out. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc shall be carried out periodically. Review of Impact of various health measures shall be conducted followed by follow up action wherever required. It should be made available for inspection whenever asked. Necessary funds for this also should be earmarked.	(i) Induction training and refresher training imparted as per Mines Act. (ii) All protective equipments like boots, ear plug, dust mask etc. are provided to workers (iii) Periodic health survey for occupational health status about workers (iv) Doctor (specialist in occupational health and safety) is engaged to implement the proposed OH&S management (vi) Budget of Rs. 0.80 lakhs is spent on occupational health activities and Training during financial year 2023-24. (vii) Besides enough care under control measure of blasting, a well equipped first aid room is available in case of any accident. Blasting is carried out under strict supervision of Mines Manager & qualified Blaster.
34	Project proponent shall ensure appropriate arrangement for shelter and drinking water for the mine workers.	Rest shelter and facilities for drinking water for the mine workers is provided at the mine site as per the Rules.
35	Persons working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.	Protective respiratory devices such as dust mask are provided to the workers. The labours are imparted training as well as information.
36	Commitment towards CSR have to be followed strictly.	Commitments towards CSR are strictly followed. Rs. 9.12 lakh have been spend on social development during financial year 2023-24.
37	Special measures shall be adopted to prevent the nearby settlement from the impacts of mining activities.	There is no human settlement within 1.0Km distance. Controlled blasting, sprinkling of water on haul road, plantation in boundary and all other environmental protection measures are adopted.
38	The Project Proponent shall inform to the Regional Office, MoEF, Gol, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The Mine is old and information has been sent in past.
39	The necessary funds as per mandate shall kept for environment protective measures which should be kept in	The funds earmarked for environmental protective measures is kept in separate account as practiced in past and not

Sl. No.	Statement of Condition	Compliance Status / Commitment
	separate account and not be diverted for other purpose. Year wise expenditure shall be reported to the Regional Office, MoEF, Gol, Bhopal and MP PCB.	diverted for other purpose. Year wise expenditure is appended as Annexure.
40	The Regional Office, MoEF, Gol, Bhopal and MP PCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environment Management Plan, Public hearing and other relevant documents should be given to Regional Office, MoEF, Gol, Bhopal and MP PCB.	The papers have been submitted.
41	A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and Municipal Bodies, as applicable, in addition to relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.	A copy of clearance letter has been marked to concern Panchayat.
42	The Project Proponent shall be in the Vernacular language of the locality concerned within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal.	Advertisement has been given in two local news paper as directed.
43	The project proponent has to strictly follow directions/guideline, issued by the MoEF, Gol, CPCB and other Govt. agencies from time to time.	Committed for directions/guidelines issued by MoEF, SEIAA, CPCB and other govt. agencies from time to time.
44	Action plan with respect to suggestion/ improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office, MoEF, Gol, Bhopal, MP PCB and to the competent authority of the State Govt. within six months.	Preference during employment to manpower from village Bhatia and other villages within 2 kms radius was given as per need & qualification. No outsourcing was done. The man power is absolutely local statutory personnel are only employed from outside as no person was available of the desired qualification. Manpower has been provided with all safety equipments such as boots, helmets, ear plugs & dust masks etc.
45	The project Proponent has to submit	The compliance report is being submitted as

Sl. No.	Statement of Condition	Compliance Status / Commitment
	half yearly compliance report of the stipulated prior environmental clearance terms and conditions in hard and soft copy to the Regulatory Authority on 1 st June and 1 st December of each calendar year.	per the condition.
46	The SEIAA of MP reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Agreed.
47	These stipulations would be enforced among others under the provisions of water (Prevention and Control of Pollution) act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment Protection) Act, 1986, the Public Liability (insurance), Act, 1991 and EIA Notification, 2008	Agreed.
48	The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.	No comments.
49	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
50	Any appeal against this prior environmental clearance shall lie with the Green tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act 2010.	No comments.
51	All other Statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc shall be obtained, as applicable by project proponents from the respective competent authorities.	No storage of diesel is proposed. Permission under FCA 1980 is not required. Any other approval as per rule will be obtained, if applicable.
52	The Proponent shall upload the status	The status of compliance of the stipulated

Sl. No.	Statement of Condition	Compliance Status / Commitment
	of compliance of the stipulated EC conditions including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollution levels namely, SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	EC conditions including results of monitored data is being sent to the Regional Office of MoEF and the SPCB. The criteria pollution levels namely, SPM, RSPM, SO ₂ , NO _x are indicated for the project.
53	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rule, 1986, as amend subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF.	The environmental statement for financial year ending 2023-24 was sent along with Compliance Report of June 2023 is being enclosed.

For : M/s. S.N.S. (Minerals) Private Limited

(S.P. Tiwari)
Authorised Signatory



State Environment Impact Assessment Authority, M.P.
(Ministry of Environment, Forest and Climate Change, Government of India)

Environmental Planning & Coordination Organization

Paryavaran Parisar, E-5, Arera Colony

Bhopal - 462016

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No.: 1150 /SEIAA/

Date: 10.6.21

To,

M/s S.N.S. (Minerals) Pvt. Ltd.,
Shri Himanshu Kothari, ED
NH-7, Rewa Road, P.O. Maihar,
District - Satna (MP) - 485771

Sub: Case No. 664/2012, Prior Environment Clearance for approval of Limestone mine 42.567ha. for enhancement in production capacity from 55,000 TPA to 5,00,000 TPA at Vill- Tamoria, Teh-Maihar, Distt. - Satna (MP) by M/s S.N.S. (Minerals) Pvt. Ltd., Shri Himanshu Kothari, Executive Director, NH-7, Rewa Road, P.O. Maihar, District - Satna (MP) - 485771.

The case was discussed in 675th SEIAA meeting dtd 08.04.2021 and it has been recorded that

**This is a case of amendment in the name of a company in the Prior EC Letter. Shri S.P. Tiwari, Director, M/s S.N.S. (Minerals) Pvt. Ltd., N.H.-7, Rewa Road, P.O. Maihar, Dist-Satna (MP) vide letter no. nil dated 22.03.2021 has informed that:*

1. The Prior EC Letter for Mining Lease of **Bhatoora Limestone Mine** at Village-Bhatoora, Tehsil-Maihar, District-Satna (MP) granted to M/s S.N.S. (Minerals) Pvt. Ltd., N.H.-7, Rewa Road, P.O. Maihar, Dist-Satna (MP) vide Letter No. 1431/SEIAA/14 dated 22.10.2014.
2. That the constitution of the company has changed from public limited to private limited and as such the name of the company has been changed from M/s S.N.S. (Minerals) Limited to S.N.S. (Minerals) Private Limited with due approval from shareholders and National Company Law Tribunal vide order dated 14.09.2018, thereafter the certificate of incorporation upon the change of name of the company has been issued by the registrar of companies, Kolkata dated 24.10.2018 and submitted a copy of NCLT order dated 14.09.2018 and C.O.I. dated 24.10.2018.
3. That on the request of PP and on the basis of due approval by Collector Katni and Satna, the Mineral Resource Department Govt. of Madhya Pradesh vide order no. 1879/1354/2019/12/2, dated 08.05.2020 changed the name of the company from M/S S.N.S. (Minerals) Limited to M/s S.N.S. (Minerals) Private Limited in all the mining leases granted in district Katni and Satna.
4. That in compliance to order of State Govt., the supplementary agreement executed on 25.11.2020 duly approved by Collector Satna and from that date lease holder's name in Mining leases changed from M/s S.N.S. (Minerals) Limited to M/s S.N.S. (Minerals) Private Limited.
5. That no other change has occurred except the constitution of the company from public limited to private limited and the Board of Directors there to remain the same.
6. That undertaking for compliance of the EC conditions granted to M/s S.N.S. (Minerals) Limited is enclosed.
7. That no objection for change in name from M/s S.N.S. (Minerals) Limited to M/s S.N.S. (Minerals) Private Limited is enclosed by Shri S.P. Tiwari, Director, N.S. (Minerals) Private Limited.

In view of the above PP requested to amend the name of the company from M/s S.N.S. (Minerals) Limited to M/s S.N.S. (Minerals) Private Limited in the Prior EC Letter No. 1431/SEIAA/14 dated 22.10.2014 issued by SEIAA.

The committee after detailed examination of information submitted by PP and discussion decided to amend the name of company M/s S.N.S. (Minerals) Limited to M/s S.N.S. (Minerals) Private Limited in the Prior EC Letter No. 1431/SEIAA/14 dated 22.10.2014 issued by SEIAA. The other terms and conditions of the EC letter shall remain the same. Copy to PP and all concerned."

In view of above, amended the name of company M/s S.N.S. (Minerals) Limited to M/s S.N.S. (Minerals) Private Limited in the Prior EC vide Letter No. 1431/SEIAA/14 dated 22.10.2014 issued by SEIAA" on the same terms & conditions and validity period under which the prior environmental clearance was initially granted.


10/06/21

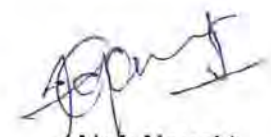
(Shriman Shukla)
Member Secretary

Endt No. 1151 / SEIAA/2021
Copy to:-

Dated: 10.6.21

1. Additional Chief Secretary, Department of Environment, Government of Madhya Pradesh, Mantralaya, Bhopal.
2. Member Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016
3. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016
4. Collector, District Satna, M. P.
5. Divisional Forest Officer, District Satna, M. P.
6. I.A. Division, Monitoring Cell, MoEF& CC, Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi- 110 003.
7. Director (S), Regional office of the MOEF, Western Region, Kendriya Paryavaran Bhawan, Link Road No. 3 Ravi Shankar Nagar, Bhopal-462016
8. Director, Geology & Mining, Madhya Pradesh, 29-A, Khanij Bhawan, Arera Hills, Bhopal – 462002.
9. District Mining Officer, District Satna, M. P.
10. DEO, SEIAA for upload website.
11. Guard file

O/C



(Alok Nayak)
Officer-in-Charge



राज पोस्ट



State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment & Forests)

Environmental Planning & Coordination Organization

Paryavaran Parisar, E-5, Arera Colony
Bhopal-4620 16

visit us <http://www.mpseiaa.nic.in>

Tel: 0755-2466970, 2466859

Fax : 0755-2462136

No: 1431 / SEIAA/14

Date: 22.10.14

✓ To,

Shri Himanshu Kothari

Executive Director, M/s S.N.S (Minerals) Ltd.,
P.O. Maihar, District-Satna (M.P.)-485771

Case No. 664/2012- Prior Environmental Clearance for **Tamoria Lime Stone, Dolomite & Reject Stone Mine** (Opencast & Fully Mechanized Method) in an area of 42.567 ha. for enhancement of production capacity from 55,000 TPA to 5,00,000 TPA at 164 khasra nos. (as per lease deed) at Village-Tamoria, Teh-Maihar, Distt-Satna by Shri Himanshu Kothari, Executive Director, M/s S.N.S (Minerals) Ltd., P.O. Maihar, District-Satna (M.P.)-485771.

This has reference to your letter no. 455/567/Pollution dtd 21.11.2011 received in SEIAA office on 07.12.2011, ToR issued by SEAC on 18.04.2012 and subsequent letters seeking Prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form - I, Pre-Feasibility Report, ToR and subsequently submission of EIA, Public Hearing proceedings and the additional clarifications furnished in response to the observations of the State level Expert Appraisal Committee (SEAC) and State level Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

ii. It has been noted that the proposal is for **Tamoria Lime Stone, Dolomite & Reject Stone Mine** in an area of 42.567 ha. The mining lease area is located at 164 khasra nos. (as per lease deed) at Village-Tamoria, Teh-Maihar, Distt-Satna (M.P). It lies at latitude $24^{\circ}17'58.5''$ to $24^{\circ}18'21.4''$ N and longitude $80^{\circ}53'37.7''$ to $80^{\circ}54'16.7''$ E. The nearest Village Tamoria is at 1.0 km. There is no National Park/Sanctuary and interstate boundary within 10 Km radius. Distance of nearest forest boundary is 12 km from the mining site.

The project is for enhancement of production capacity from 55,000 TPA to 5,00,000 TPA. The mining lease was sanctioned for 30 years i.e. from 24.04.2001 to 23.04.2031. The life of mine is 36 years as per EIA Report and 137th SEAC meeting dtd. 24.07.2013 minutes Mining Plan is approved by IBM vide L.No. 314(3)/2011/MS-68 dtd. 04.05.2012. The mining will be carried out by Opencast & Fully Mechanized Method. The water requirement is 30 cum/day which shall be met-out from sump & dug well / bore well water. Plantation will be done in 14.067 ha. by planting 28300 plants during the lease period. The public hearing was conducted on 16.11.2012 at Mining Site, Village-Tamoria, District-Satna (M.P).

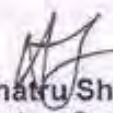
iii. The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th September 2006.

• Registration No.: To be quoted in registered cases for correspondence

IV. Based on the information submitted, as at Para (II) above the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 159th meeting dtd. 11.09.2014 and decided to accept the recommendations of 137th SEAC meeting dtd. 24.07.2013 and 143th SEAC meeting dtd. 29.10.2013.

Hence, **Prior Environmental Clearance** is accorded for **Tamoria Lime Stone, Dolomite & Reject Stone Mine** (Opencast & Fully Mechanized Method) in an area of 42.567 ha. for enhancement of production capacity from 55,000 TPA to 5,00,000 TPA at 164 khasra nos. (as per lease deed) at Village-Tamoria, Teh-Maihar, Distt-Satna (M.P) for the lease period i.e upto 23.04.2031 by Shri Himanshu Kothari, Executive Director, M/s S.N.S (Minerals) Ltd., P.O. Maihar, District-Satna (M.P.)-485771 under the provisions of EIA notification dtd. 14th September, 2006, subject to the compliance of the Standard Conditions enclosed at **Annex-I** and the following additional specific conditions as recommended by SEIAA & SEAC.

1. Top soil shall be staked separately and shall be used for plantation only.
2. Maximum height of the OB dumps shall be restricted to 20 meters with appropriate angle of repose.
3. The rejected stones staked towards the boundary and in the area adjoining the neighbouring land shall be removed along with the other activities.
4. Appropriate garland drain all around the OB dumps shall be constructed and connected to settling tank.


(Ajatshatru Shrivastava)
Member Secretary

Encl: Annex-1

Encl No. / SEIAA/14 Dated:

Copy to:-

1. Principal Secretary, Department of Environment, Government of Madhya Pradesh, Mantralaya, Bhopal.
2. Member Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-4620 16
3. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
4. Collector, District Satna, M. P.
5. Divisional Forest Officer, District Satna, M. P.
6. I.A. Division, Monitoring Cell, MoEF, Gol, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi- 110 003
7. Director (S), Regional office of the MOEF, Western Region, Kendriya Paryavaran Bhawan, Link Road No. 3 Ravi Shankar Nagar, Bhopal-462016.
8. Director (Geology & Mining), 29, A Khanij Bhawan, Arera Hills, Bhopal (M.P).
9. District Mining Officer, District Satna, M. P.
10. Guard file

Encl: Annex-1

(Dr R.K. Jain)
Officer-in-Charge


State Environment Impact Assessment Authority, M.P.

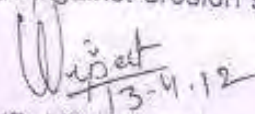
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Research and Development Wing, Madhya Pradesh Pollution Control Board,
Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16

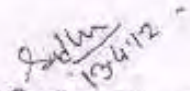
Annex-I

Standard Conditions related to Activity 1 (a) - Mining of Minerals (open cast) of Category B projects under the Schedule of Ministry of Environment and Forests, GoI notification dtd 14-09-06

1. Any addition of the mining area, change of Khasra numbers, enhancement of capacity, change in mining technology, modernization and scope of working shall again require prior environmental clearance as per EIA notification, 2006.
2. All activities / mitigative measures proposed by PP in Environmental Impact Assessment and approved by SEAC must be ensured.
3. All activities / mitigative measures proposed by PP in Environmental Management Plan and approved by SEAC must be ensured.
4. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
5. Blast vibrations study shall be conducted and submitted to the Regional Office, MoEF, GoI, Bhopal and MP PCB **within six months**. The study shall also provide measures for prevention of blasting associated impact on nearby houses and agricultural fields.
6. Controlled blasting techniques with sequential drilling shall be adopted. The blasting shall be carried out in the day time only.
7. Slope of the mining bench and ultimate pit limit shall be as per the mining scheme approved by Indian Bureau of Mines.
8. A final mine closure plan, along with details of Corpus Fund, shall be submitted to the Regional Office, MoEF, GoI, Bhopal and MP PCB within 5 years in advance of final mine closure for approval.
9. No change in the calendar plan including excavation, quantum of mineral and waste shall be made.
10. Mining will be carried out as per the approved mining plan. In case of any violation of mining plan, the Environmental Clearance given by SEIAA will stand cancelled.
11. Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.
12. The transportation of the minerals extracted from the mining area shall be limited to day hours time only.
13. Maintenance of near by local roads through which transportation of minerals are undertaken shall be carried out by the company regularly at its own expenses. The roads shall be black topped.
14. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile


(Dr R.P. Singh)
Officer-in-Charge


(Dr Vinita Vipat)
Officer-in-Charge


(Dr Sadhna Tiwari)
Officer-in-Charge

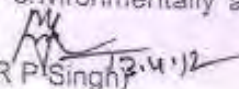
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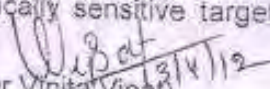
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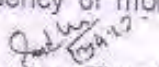
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- matting or other suitable material, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.
15. Trenches / garland drains shall be constructed at foot of dumps and coco filters installed at regular intervals to arrest silt from being carried to water bodies. Adequate number of check dams and gully plugs shall be constructed across seasonal/perennial Nallahs, if any, flowing through the ML area and silts arrested. De-silting at regular intervals shall be carried out.
 16. The project proponent will ensure necessary protection measures around the mine pit, waste dumps and garland drain.
 17. Top soil / solid waste shall be stacked properly with proper slope and adequate safeguards and shall be utilized for backfilling (wherever applicable) for reclamation and rehabilitation of mined out area. Top soil shall be separately stacked for utilization later for reclamation and shall not be stacked along with over burden.
 18. Over burden (OB) shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 20 m, each stage shall preferably be of maximum 10 m and overall slope of the dump shall not exceed 35°. The OB dump shall be backfilled and shall be scientifically vegetated with suitable native species to prevent erosion & surface run off.
 19. Minimum 1000 plants shall be planted in one year and 5000 plants shall be planted in first five years.
 20. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB on six monthly basis.
 21. By the end of the lease period 33% of the area should be brought under plantation.
 22. Green belt development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO / Agriculture Deptt. Herbs & shrubs shall also form a part of afforestation programme besides tree plantation. The company shall involve local people for plantation programme. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB every year.
 23. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of minerals and others shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. The vehicles transporting minerals shall be covered with a tarpaulin or other suitable enclosures so that no dust particles / fine matters escape during the course of transportation. No overloading of minerals for transportation shall be committed. The trucks transporting minerals shall not pass through wild life sanctuary, if any in the study area.
 24. Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for RSPM, SPM, SO₂, NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring


(Dr R P Singh) 12.4/12
Officer-in-Charge


(Dr Vinita Vipat) 13/4/12
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(Dr Sadhna Tiwari)
Officer-in-Charge

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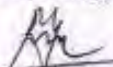
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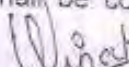
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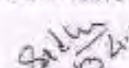
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should be undertaken in consultation with the State Pollution Control Board. The monitored data for criteria pollutants shall be regularly up-loaded and displayed on the company's website.

25. Data on ambient air quality (RPM, SPM, SO₂, NO_x) should be regularly submitted to the Regional office, MoEF, Gol, Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.
26. Ambient air quality at the boundary of the mine premises shall conform to the norms prescribed in MoEF notification no. GSR/826(E) dtd. 16.11.09.
27. Fugitive dust emissions from all the sources shall be controlled. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained. The dust emission shall be monitored regularly as per norms and records to be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB regularly.
28. Measures shall be taken for control of noise levels below 75 dBA in the work environment. Workers engaged in operations of HEMM, etc., shall be provided with ear plugs / muffs and health records of the workers shall be maintained.
29. Rain water harvesting shall be undertaken to recharge the ground water source. Status of implementation shall be submitted to the Regional Office, MoEF, Gol, Bhopal and MP PCB **within six months** and thereafter every year from the next consequent year.
30. Regular monitoring of ground and surface water sources for level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year i.e. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected shall be regularly sent to Regional Office, MoEF, Gol, Bhopal, MP PCB, Central Ground Water Authority and Regional Director, Central Ground Water Board.
31. The waste water from the mine if any, shall be treated to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The oil and grease trap shall be installed for the effluents generated from the workshop, if any, before discharging into the natural stream. The discharged water from the tailing dam, if any shall be regularly monitored and report submitted to the Regional Office, Ministry of Environment & Forests, Gol, Bhopal, Central Pollution Control Board, and the State Pollution Control Board.
32. Hydro-geological study of the area shall be reviewed by the project proponent annually. In case adverse effect on ground water quality and quantity is observed mining shall be stopped and resumed only after mitigating steps to contain any adverse impact on ground water is implemented.
33. Occupational health check up for the workers including identification of work related health-hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including


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(Dr Sadhna Tiwari)
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Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16

health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures shall be conducted followed by follow up action wherever required. It should be made available for inspection whenever asked. Necessary funds for this also should be earmarked.

34. Project Proponent shall ensure appropriate arrangement for shelter and drinking water for the mine workers.
35. Persons working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.
36. Commitment towards CSR have to be followed strictly.
37. Special measures shall be adopted to prevent the nearby settlements from the impacts of mining activities.
38. The Project Proponent shall inform to the Regional Office, MoEF, GoI, Bhopal and MP PCB regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
39. The necessary funds as per mandate shall kept for environmental protective measures which should be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Regional Office, MoEF, GoI, Bhopal and MP PCB.
40. The Regional Office, MoEF, GoI, Bhopal and MP PCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan, Public hearing and other relevant documents should be given to Regional Office, MoEF, GoI, Bhopal and MP PCB.
41. A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and Municipal Bodies, as applicable, in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.
42. The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at www.mpseiaa.nic.in and a copy of the same shall be forwarded to the Regional Office, MoEF, GoI, Bhopal.
43. The project proponent has to strictly follow directions/guideline issued by the MoEF, GoI, CPCB and other Govt. agencies from time to time.
44. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office,

(Dr R. Singh) 13.4.12
Officer-in-Charge

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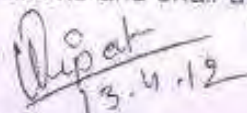
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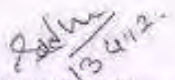
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MoEF, Gol, Bhopal, MP PCB and to the competent authority of the State Govt. within six months.

45. The Project Proponent has to submit half yearly compliance report of the stipulated prior environmental clearance terms and conditions in hard and soft copy to the Regulatory Authority on 1st June and 1st December of each calendar year.
46. The SEIAA of M.P. reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
47. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
48. The Ministry or any other competent authority may alter/modify the conditions or stipulate any further condition in the interest of environment protection.
49. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
50. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
51. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
52. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
53. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF.


(Dr R P Singh)
Officer-in-Charge


(Dr Vinita Vipat)
Officer-in-Charge


(Dr Sadhna Tiwari)
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Issued Vide No. SEIAA/EPCO
Dated 22.10.14



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MODEL FORM OF MINING LEASE

THIS INDENTURE made this 22nd ... day of April 2001 between the Governor of M.P. through The Collector, Satna, M.P. (hereinafter referred to as the 'State Government' which expression shall where the context so admits be deemed to include the successors and assigns) of the one part and

When the lessee is an individual

1. (Name of person with address and occupation) (Here in after referred to as The Lessee' which expression shall where the context so admits be deemed to include his heirs, executors' administrators, representatives and permitted assigns)

When the lessee are more than one individual

2. (Name of Person with address and occupation) (Here in after referred to as the lessee which expression shall where the context so admits be deemed to include their respective heirs, executors, administrators representatives and their Permitted assigns)

When the lessee is a registered firm

3. (Name and address of partner, son of X ... of X ... son of X ... all carrying on business in partnership under the firm name and style of X ... Name of the firm) registered under the Indian partnership Act, 1932 (9 of 1932) and having their registered office at X ... here in after

When the lessee is registered Company

referred to as the lessee which expression where the context so admits be deemed to include all the said partners their representative heirs, executors, legal representative and permitted assigns, M/s S.N. Sunderson (Minerals) Ltd., Maihar, Distt. Satna, through its Attorney Sri S.K. Chatterjee (Name of company) a company registered under (Act under which incorporated) and having its registered office at 214-C, Sarvodaya Enclave (address) (hereinafter referred to as the lessee which expression shall where the context so admits be deemed to include its successors and permitted assigns) New Delhi

WHEREAS THE lessee /lessees has /have applied to the state Government in accordance with the Mineral Concession Rules, 1960 (hereinafter referred to as the Said Rules) for a mining lease for Limestone and Dolomite. in respect of the lands described in Part I of the Schedule here under written and has/ have deposited with the State Government the sum of Rs 10,000/- as Security and the Sum of Rs ... Vide Chalan No. 36/21 dt. 17.4.2001 on SBI, Maihar

For S.N. Sunderson (Minerals) Ltd.

[Signature]
Attorney.

[Signature]
...

(2)

for meeting the preliminary expenses for a mining lease and whereas the lessee is in possession of a valid certificate of approval and Income-tax Clearance Certificate and) Whereas the Central Government has approved the grant of the lease)

WITNESSETH that in consideration of the rents & royalties covenants and agreements by and in these presents and the schedule hereunder written reserved and contained and on the part of the lessee/lessees to be paid observed and performed, the State Government (with the approval of the Central Government, hereby grants and demises unto lessee/lessees.

All those the mines beds / veins seams of **Limestone & Dolomite** (here state the minerals) (hereinafter and in the schedule referred to as the said minerals) situated laying and being in or under the lands which referred to in part I of the said schedule, together with the liberties, powers and privileges to be exercised or enjoyed in connection here with which are mentioned in part II of the said Schedule subject to the restrictions and conditions as to exercise and enjoyment of such liberties powers and privileges Which are mentioned in part III of the said Schedule EXCEPT and reserving out of this demise unto the State Government the liberties, powers and privileges mentioned in part IV of the said Schedule TO HOLD the premises hereby granted and demised unto the lessee/lessees from the **24th day of APRIL 1920**

for the term of **Thirty (30)** years thence next ensuring YIELDING AND PAYING Therefore, unto the State Government the several rents and royalties mentioned in part V of the said Schedule at the respective times therein specified subject to the provisions contained in part VI of the said Schedule and the lessee/lessees hereby covenants/covenant with the state Government as in Part VIII of the said Schedule is expressed and the State Government hereby covenants with the lessee/lessees as in part VIII of the said Schedule as expressed AND it is hereby mutually agreed between the parties hereto as in part IX of the said schedule is expressed.

IN WITNESS WHEREOF- these presents have been executed in manner hereunder appearing the day and year first above written The Schedule above referred to

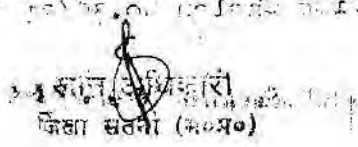
PART I

The Area of this lease

Location and area of the lease All that tract of lands situated at **Village Tamarla P.C. No. 41** of area or areas) **42.567 Hects** in (pargana) in **Malhar** the Registration District of **Satna** Sub District **Malhar** and

For S.M. Sunderson (Minerals) Ltd.

Attorney.



(3)

Thana Maihar bearing Cadastral Survey Nos Schedule attached containing an area of 42.567 Hects. or thereabouts delineated on the plan hereto annexed and thereon Red coloured, and bounded as follows :-

On the North by Kh.No.219, 224, 223, 212, 213, 214, 239, 244, 249/2, 257, 251

On the South by Village Bhatia

On the East by Village Chapna

and

On the west by Village Bhatia hereinafter referred to as "the said lands"

PART II

Liberties, powers and privileges to be exercised and enjoyed by the lessee/lessees subject to the restrictions and conditions in part III.

- | | | | |
|--|----|--|---|
| To enter upon land and search for win work etc. | 1. | Liberty and power at all times during the term hereby demised to enter upon the said lands and to search for mine bore dig drill or win work dress process convert carry away and dispose of the said mineral/minerals. | |
| To sink drive shafts and inclines etc. | 2. | Liberty and power for or in connection with any of the purposes mentioned in this part to sink drive make maintain and use in the said lands any pits shafts inclines drifts levels water ways airways and other works (and to use maintain deepen or extend any existing works of the like nature in the said lands) | |
| To bring to use machinery equipment etc. | 3. | Liberty and power for or in connection with any of the purposes mentioned in this part to erect construct maintain and use on or under the said lands and engines machinery plant dressing floors furnaces coke ovens brickkilns workshops storehouses, bungalows godowns, sheds and other buildings and other works and convenience of the like nature on or under the said lands) | |
| To make roads and ways etc and use existing roads & ways | 4. | Liberty and power for or in connection with any of the purposes mentioned in this part to make any tramways, railways, roads, aircrafts landing grounds and other ways in or over the said lands and to use maintain and go and repass with or without horses rattle, wagons, aircrafts, locomtives or other vehicles over the same for any existing tramways, roads and other ways railways in or over the said lands) on such conditions as may be agreed to | |
| | 5. | Liberty and Power for or in connection with any of the purposes mentioned in this part to quarry and get stone gravel and other building and road materials and clay and to use, and employ the same and to manufacture such clay into bricks or tiles and to use such bricks or tiles but not to sell any such material bricks or tiles | To get building and road materials etc. |
| | 6. | Liberty and power for or in connection with any of the purposes mentioned in this part but subject to the rights of existing or future lessees and with the written permission of Deputy Commissioner/Collector to appropriate and use water from any streams, water courses springs or other sources in or upon the said lands and to divert stop-up or dam any such stream or Water course and collect or impound any such water and to make construct and maintain any water-course culverts, | To use water from streams etc. |

For S.N. Sunderson (Minerals) Ltd.

Attorney.


Sunderson (Minerals) Ltd.

(4)

drains or reservoirs but not as to deprive any cultivated lands villages buildings or watering places for live stock of a reasonable supply of water as before noxious fumes nor in any way to foul or pollute any streams or springs: provided that the lessee/lessees shall not interfere with the navigation in any navigable stream nor shall divert such stream without the previous written permission of the state Government.

7. Liberty and power to enter upon and use a sufficient part of the surface of the said lands for the purpose of stacking, heaping, storing or depositing therein any produce of the mines or works carried on and any tools, equipments earth and materials and substances dug or raised under the liberties and powers mentioned in this part. To use land for stacking heaping depositing purposes
- 8(a) Liberty and power to enter upon and use a sufficient part of the said lands to beneficiate any ore produced from the said lands and to carry away such beneficiated ore. Beneficiation & conveying away of production
- 8(b) Liberty and power upon the said lands and to convert into coke any coal or coal dust produced from the said lands to carry away such coke. To make coke (to be used in case of coal only)
9. Liberty and power for or in connection with any of the purposes mentioned in this part and subject to the existing rights of others and save as provided in clause 3 of part III of this Schedule to clear undergrowth and brush wood and to fell and utilise any trees or timber standing or found on the said lands provided that the State Government may ask the lessee/lessees to pay for any trees or timber felled and utilised by him/them at the rates specified by the Deputy Commissioner / Collector or the State Government. To clear brushwood & to fell and utilise trees etc.

PART III

Restrictions and Conditions as to the exercise of the Liberties, powers and privileges in part II.

1. No building or thing shall be erected set up or placed and no surface operations shall be carried on or upon any public pleasure ground burning or burial ground or place held sacred by any class of persons or any house or village site public road or other place which the State Government may determine as public ground nor in such a manner as to injure or prejudicially effect any buildings works property or rights of other persons and no land shall be used for surface operations which is already occupied by persons other than the State Government for works or purposes not included in this lease. The lessee/lessees not also interfere with any right of way or tank. No building etc. upon certain places

For S.M. Sunderson (Minerals) Ltd.


Attorney.


S.M. Sunderson (Minerals)

SCHEDULE

TOTAL AREA 42.567 HECTARES GRANTED UNDER MINING LESE
FOR THE MINERAL LIMESTONE & DOLOMITE FOR A PERIOD O
THIRTY YEARS IN FAVOUR OF M/S S.N.SUNDERSON (MINERAL)
LIMITED, MAIHAR, IN VILLAGE TAMORIA (PATWARI CIRCLE NO.
41) TEHSIL MAIHAR DISTRICT SATNA (M.P.)

<u>KHASRA NO.</u>	<u>AREA IN HECTS.</u>	<u>KHASRA NO.</u>	<u>AREA IN HECTS.</u>
✓ 220	0.752	✓ 261/2	0.052
✓ 225/1	0.418	✓ 262/1	3.428
✓ 225/2	0.418	✓ 262/2	0.073
✓ 225/3	0.418	✓ 262/3	0.157
✓ 226	2.926	✓ 263	0.139
✓ 227	0.094	✓ 264	0.031
✓ 228	5.195	✓ 265	0.031
✓ 229	0.094	✓ 266	0.366
✓ 230	0.491	✓ 267	0.021
✓ 231	0.157	✓ 268	3.857
✓ 232	0.418	✓ 269	0.167
✓ 233	0.178	✓ 270	0.073
✓ 234	0.742	✓ 271	0.115
✓ 235	0.909	✓ 272	0.063
✓ 236	0.951	✓ 273	0.042
✓ 237/1	0.627	✓ 274	0.073
✓ 237/2	0.627	✓ 275	0.042
✓ 237/3	0.324	✓ 276	0.606
✓ 238/1	0.261	✓ 277	0.031
✓ 238/2	0.366	✓ 278	0.031
✓ 238/3	0.261	✓ 279	0.073
✓ 238/4	0.094	✓ 280	0.063
✓ 238/5	0.449	✓ 281	0.031
✓ 252	0.711	✓ 282	0.042
✓ 253	0.575	✓ 283	0.042
✓ 254	0.460	✓ 284	0.052
✓ 255	0.052	✓ 285	0.063
✓ 256	0.063	✓ 286	0.105
✓ 257	0.042	✓ 287	0.084
✓ 258	0.073	✓ 288	0.084
✓ 259	0.136	✓ 289	0.031
✓ 260	0.052	✓ 290	0.073
✓ 261/1	1.076	✓ 291	1.087

For S.N. Sunderson (Minerals) Ltd.


Attorney.

 स.न. सुन्दरसन
जिला सातना (म.प्र.)

<u>KHASRA NO.</u>	<u>AREA IN HECTS.</u>	<u>KHASRA NO.</u>	<u>AREA IN HECTS.</u>
✓ 292	0.063	✓ 329	0.219 ✓
✓ 293	0.063	✓ 330	0.146
✓ 294	0.084	✓ 331	0.052
✓ 295	0.052	✓ 332	0.052
✓ 296	0.105	✓ 333	0.052
✓ 297	0.084	334	0.031
✓ 298	0.063	✓ 335	0.178
✓ 299	0.052	✓ 336	0.084
✓ 300	0.826	✓ 337	0.094
✓ 301	0.042	✓ 338	0.094 ✓
✓ 302	0.063	✓ 339	0.094
✓ 303	0.052	✓ 340	0.230
✓ 304	0.052	✓ 341	0.105
✓ 305	0.063	✓ 342	0.094
✓ 306	0.063	✓ 343	0.178
✓ 307	0.063	✓ 344	0.073
✓ 308	0.063	✓ 345	0.073
✓ 309	0.052	✓ 346	0.063
✓ 310	0.063	✓ 347	0.084
✓ 311	0.052	✓ 348	0.052
✓ 312	0.052	✓ 349	0.052
✓ 313	0.052	✓ 350	0.063
✓ 314	0.052 ✓	✓ 351	0.052
✓ 315	0.052 ✓	✓ 352	0.021
✓ 316	0.052	✓ 353	0.021
✓ 317	0.052	✓ 354	0.021
✓ 318	0.115	✓ 355	0.073
✓ 319	0.052	✓ 356	0.052
✓ 320	0.052	✓ 357	0.052
✓ 321	0.125 ✓	✓ 358	0.042
✓ 322	0.063	✓ 359	0.063
✓ 323	0.094	✓ 360	0.042
✓ 324	0.052	✓ 361	0.052
✓ 325	0.230	✓ 362	0.021
✓ 326	0.167	✓ 363	0.105
✓ 327	0.115 ✓	✓ 364	0.031
✓ 328	0.115 ✓	✓ 365	0.052

For S.M. Sunderson (Minerals) Ltd.



 Attorney.


 S.M. Sunderson

<u>KHASRA NO.</u>	<u>AREA IN HECTS.</u>
✓ 366	0.062
✓ 367	0.073
✓ 368	0.042
✓ 369	0.052
✓ 370	0.063
✓ 371	0.052
✓ 372	0.073
✓ 373	0.052
✓ 374	0.073
✓ 375	0.073
✓ 376	0.052
✓ 377	0.073
✓ 378	0.073
✓ 379	0.031
✓ 380	0.042
✓ 381	0.042
✓ 382	0.042
✓ 383	0.690
✓ 384	0.021
✓ 385	2.151
✓ 386/328	0.084 ✓
✓ 387/374	0.115 #
✓ 388/266	0.418 ✓
389/329	0.115 ✓
✓ <u>164 Nos.</u>	<u>42.567 Hect.s</u>

For S.M. Sunderson (Minerals) Ltd.


Sunderson


S.M. Sunderson
Sunderson (Minerals) Ltd.

- Permission for surface operations in a land not already in use
2. Before using for surface operations any land which has not already been used for such operations the lessee/lessees shall give to Deputy Commissioner/Collector of the District Two calendar months previous notice in writing specifying the name or other description of the situation and the extent of the land proposed to be so used and the purpose for which the same is required and the said land shall not be so used if objection is issued by the Deputy Commissioner /Collector within two months after the receipt by him of such notice unless the objections on reference to the State Government be annulled or waived.
- To cut trees in u. reserved lands.
3. The lessee/lessees shall not without the express sanction of the Deputy Commissioner /Collector cut down or injure any timber or trees on the said lands but may without such sanction clear away any brushwood or undergrowth which interferes with any operation authorised by these presents. The Deputy Commissioner / Collector or the State Government may require the lessee / lessees to pay for any trees or timber felled and utilised by him /them at the rates specified by the Deputy Commissioner / Collector of the District.
- To enter upon reserved forests
4. Notwithstanding anything in this Schedule contained the lessee/lessees shall not enter upon any reserved forest included in the said lands without previous sanction in writing of the District forest Officer nor fell cut and use any timber or trees without obtaining the sanction in writing of that Officer nor otherwise than in accordance with such conditions as the State Government may prescribe.
- No mining operations within 50 metres of public works etc
5. The lessee/lessees shall not work or carry on or allow to be worked or carried on any mining operations at or to any point within a distance of 50 metres from any railway line except with the previous written permission of the Railway administration concerned or from any reservoir canal or other public works such as public roads and buildings or inhabited site except with the previous written permission of the Deputy Commissioner /Collector or any other officer authorised by the State Government in this behalf and otherwise than in accordance with such instructions restrictive and conditions either general or special which may be attached to such permission. The said distance of 50 metres shall be measured in the case of railway reservoir or canal horizontally from the outer toe of the bank or the outer edge of the cutting as the case may be and in case of a building horizontally from the plinth thereof. In the case of village roads no working shall be carried on within a distance of 10 metres of the outer edge of the cutting except with the previous permission of the Deputy Commissioner /Collector or any other officer duly authorised by the State Government in this behalf and otherwise than in accordance with such directions: restrictions and additions, either general or special, which may be attached to such permission.

For S.N. Sunderson (Minerals) Ltd.

Attorney.

खाने अधिकारी
खिदा सतना (म.प्र.)

Explanations for the purposes of this clause the expression, railways administration shall have the same meaning as it is defined to have in the Indian Railway Act 1890, by clause (6) of section 3 of that act. 'Public Road, shall mean a road within has been constructed by artificially surface as distinct from a track resulting from repeate use Village road will include any track shown in the Revenue record as village road.

6. The lessee/lessees shall allow existing and future holders of Government licences of leases over any land which is comprised in or adjoins or is reached by the land held by the lessee/lessees reasonable facilities of access thereto.

PROVIDED THAT on substantial hindrance or interference shall be caused by such holders of licences or leases to the operations of the lessee/lessees under these presents and fair compensation (as may be mutually agreed upon or in the event of disagreement as may be decided by the State Government shall be made to the lessee/lessees for all loss or damage sustained by the lessee / lessees by reason of the exercise of this liberty.

PART IV

Liberties power and Privileges Reserved to the State Government.

1. Liberty and power for the State Government or to any lessee or persons authorised by it in that behalf to enter into and upon the said lands and to search for win work dig get raise dress process, convert and carry away minerals other than the said minerals and any other substances and for those purposes to sink drive make, erect construct, maintain and use such pits shafts inclines drifts leve's and other lines waterways, airway, watercourses drains reservoirs engines machinery plant buildings' canals tramways, railways, roadways, and other works and conveniences as may be deemed necessary or convenient.

PROVIDED THAT in the exercise of such liberty and power no substantial hindrance or interference shall be caused to or with the liberties powers and privileges of the lessee/lessees under these presents and that fair compensation (as may be mutually agreed upon or in the event of disagreement as may be decided by the State Government shall be made to the lessee/lessees for all loss or damage sustained by the lessee /lessees by reason or in consequence of the exercise of such liberty and power.

2. Liberty and power for the State Government or any lessee or person authorised by it in that behalf to enter into and upon the said lands and to make upon over or through the same any railways tramways roadways Pipelines for any purpose other than those mentioned in PART II of these presents and to get from the said lands stones gravel earth and other materials for making maintaining and repairing such railways, tramways, and roads or any existing railways, and roads and to go and repass at all time with or without horses, cattle or other animals, carts, wagons, carriages, locomotives or other vehicles over or along any such railways, tramways road lines and other ways for all purposes and as occasion may require provided in the exercise of such liberty and power by such other lessee or.

person no substantial hindrance or interper shall be caused too with the liberties powers and privileges of the lessee/lessees under these presents and that fair compe nsation as may be mutually agreed upon or in the event of disagreement as may be decided by the State Government shall be made to the lessee/lessees for all loss or damage sustained by the lessee/lessees by reason or in consequence of the exercise by such lessee /person of such liberty and power.

PART V

RENTS AND ROYALTIES RESERVED BY THIS LEASE.

1. The lessee shall pay for every year except the first year of the lease dead rent as specified in clause 2 of this part To pay dead rent of royalty which ever is higher.

Provided that, where the holder of such mining lease becomes liable under section 9 of the Act, to pay royalty for any mineral removed or consumed by him or by his agent, manager employee contractor or sub-lessee from the leased area he shall be liable to pay either such royalty or the dead rent in respect of that area, whichever is higher."

2 subject to the provisions of Clause 1 of this part, during the subsistences of th lease the lessee/lessees shall pay to the State Government annual dead rent for the lands demised and describeb in part-1 of this schedule at the rete for the time being specified in the Third schedule to the Act in advance for the whole year on or before the 20th of the first month of the ensuing year in the District Treasury or sub-Treasury.

1	2	3	4	5	6
Name of Mineral	Period	Dead rent fixed per hectare	Area of demised land	Dead rent payable per year	Total dead rent payable
I.	I Year Nil			Nil	Nil
	II to V Year Rs				
	VI to X Year Rs				
	XI to onwards Rs.				

As per Rules.

Circular No. 19-104/95/12 dt. 30-9-95 regarding advance Royalty attached herewith separately at page no. 22, 23, and 24.

For S.V. Sunderson (Minerals) Ltd.

[Signature]
Attorney.

[Signature]
जिला सदन (म.प्र.)

Rate and mode of payment of royalty,

3. Subject to the provision of clause 1 of this part, the lessee / lessees shall, during the subsistence of this lease, pay to the State Govt royalty in respect of any mineral / minerals removed or consumed from the leased area during amonth by him, them, or his / their agent, manager, employee controtor or sub-lease except as exceptions exempted under Section 9 (2-A) of the Act, on or before the 20th of the ensuring month in the District Treasury or sub-Treasury at the rate for the time being specified in the Schedule of the Mines and Minerals (Regulation and Development) Act- 1957,

payment of surface rent and water rate.

4 The lessee / lessees shall pay rent and water rate to the State Govt, in respect of all part of the surface of the said lands which shall fr m- time to time be occupied of used by the lessee / lessees under the autho- rity of these presents at the rate of Rs. ^{25 per acre} and Rs. --- --- respectively per annum per acre of the area so occupied or used and so in propeation for any areas less than an hectare during the period from the commencement of such occupation or use until the area shall cease to be so occupied or used and shall as far as possible restore the surface land so used to its original condition.

Surface rent and water rate shall be paid as hereinbefore detailed in clause 2 PROVIDED THAT No such rent/water rate shall be payable in respect of the occupation and use of the area comprised in any roads or ways to which the public have ful right of access

PART VI

PROVISIONS RELATING TO THE RENT AND ROYALTIES :

1. The rent, water rate and royalties mentioned in part V of this Schedule shall be paid free from any deductions to the State Government of M.P. & Salim --- Freeway --- and in such manner as the State Government may prescribe Rent and Royalties to be free from deduction etc. PROVISIONS ALWAYS and it is hereby agreed that Rs 10,000/- the balance standing to the cr- dit of the lessee/lessees on account of the deposit made by him / them as a licence / licer- cees over an area which included the said lands shall be retained and accepted by the State Government in satisfaction of the rents and royalties mentioned in Part V until they reach that amount

2. For the purposes of computing the said royalties the lessee / lessees shall keep a correct account of the mineral/minerals produced and despatched. The accounts as well as the weight of the mineral/minerals in stock or in the process of export may be checked by an officer authorised by the Central or State Government. Mode of computation of royalty there specify the mode of arriving at sale price / prices at pits mouth of mineral / minerals.

For S.N. Sunderson (Minerals) Ltd.

Attorney.

 जिला खदान (मन्दा)

- 3. Should any rent royalty or other sums due to the State Government under the terms and conditions of these presents be not paid by the lessee/lessees within a prescribed time, the same together with simple interest due thereon at the rate of fifteen percent per annum, may be recovered on a certificate of such officer as may be specified by the State Government by general or special order, in the same manner as an arrear of lands revenue. Course of action if rents and royalties are not paid in time

**PART VII
THE COVENANTS OF THE LESSEE / LESSEES**

- 1. The lessee / lessees shall pay the rent, water rate and royalties reserved by this lease at such times and in the manner provided in PARTS V & VI of these presents and shall also pay and discharge all taxes, rates assessments and impositions whatsoever being in the nature of public demands which shall from time to time be charged assessed or imposed by the authority of the Central and State Government upon or in respect of the premises and works of the lessee / lessees in common with other premises and works of a like nature except demands for land revenues. lessee to pay rents and royalties taxes, etc,
- 2. The lessee / lessees shall at his / thier own expense erect and at all times maintain and keep in repair boundary marks and pillars according to be shown in the plan annexed to this lease, Such marks and pillars shall be sufficiently clear of the shrubs and other obstructions as to allow easy identification. To maintain and keep boundary marks in goods order
- 3. Unless the State Government for good cause permits other wise the lessee/lessees, shall commence operation within one year from the date execution of the lease and shall there after at all times during the continuance of this lease search for, win-work and develop the said minerals without voluntary intermission in a skilful and work-manlike manner and as prescribed under clause 12 hereinafter without doing or permitting to be done any unnecessary or avoidable damage to the surface of the said lands or the crops buildings structures or other property there on. For the purposes of this clause operations shall include the erection of machinery laying of a tramway or construction of a road in connection with the mine. To commence operations within a year & work in a workman-like manner
- 4. The lessee / lessees shall make and pay such reasonable satisfaction and compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage injury or disturbance which may be done by him / them in exercise of the powers granted by this lease and shall indemnify and keep indemnified fully and completely the State Government against all claims which may be made by any person in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith. To Indemnify Government against all claims
- 5. The lessee / lessees shall during the subsistence of this lease well and sufficiently secure and keep open with timber or other durable means all pits shafts and workings that may be made or used in the said lands and make and maintain sufficient fences to the satisfaction of the State Government round every such as pit shaft or working whether the same is abandoned or not and shall during the same period keep all workings in the said lands except such as may be abandoned accessible free from water and foul air as far as possible. To secure and keep good condition pits shafts, etc.

For S.N. Sunderson (Minerals) Ltd.


Attorney,


जिला अधिकारी
जिला सतना (झारखण्ड)

6. The lessee/lessees shall strengthen and support to the satisfaction of the Railways administration concerned or the State Government as the case may be any Part of the mines which in its opinion requires such strengthening or support for the safety of any railway reservoir canal road any and, other public works or structures **To strengthen and support the mine to necessary extent,**
7. The lessee/lessees shall allow any officer authorised by the Central Government the State Government in that behalf to enter upon the premises including any building excavation or land comprised in the lease for the purpose of inspecting examining surveying and making plans thereof sampling and collecting any data and the lessee/lessees shall with proper person employed by the lessee/lessees and acquainted with the mine and work effectually assist such officer agents, servants and workman in conducting every such inspection and shall afford them all facilities information connected with the working of the mines which they may reasonably require and also shall and will conform to and observe all orders and regulations or otherwise may from time to time see fit to impose **to allow inspection of workings**
8. The lessee/lessees shall without delay send to the Deputy Commissioner / Collector a report of any accident causing death or serious bodily injury or serious injury to property or seriously affecting endangering life or property which may occur in the course of the operations under this lease. **To report accident**
9. The lessee /lessees shall report to the State Government the discovery in the leased area of any mineral not specified in the lease within sixty days of such discovery alongwith full particulars of the nature and position of each find if any mineral not specified in the lease is discovered in the leased area the lessee /lessee shall not win and dispose of such mineral unless such mineral is included in the lease or a separate lease is obtained therefor. **To report discovery of other minerals.**
10. The lessee/lessees shall at all times during said term keep or cause to be kept at an office to be situated upon or near the said lands correct and intelligible books of accounts which shall contain accurate entries showing from time to time **To keep records and accounts regarding production and employees etc.**
- (1) Quantity and quality of the said mineral /minerals realised from the said lands.
 - (2) Quantity of the various qualities of ores beneficiated or converted (for example coal converted into coke).
 - (3) Quantities of the various qualities of the said mineral /minerals sold and exported separately.
 - (4) Quantities of the various qualities of the said mineral/minerals otherwise disposed of and the manner and purpose of such disposal.
 - (5) The prices and other particulars of all sales of said mineral/minerals.

For S.N. Sunderson (Minerals) Ltd.


Attorney.


S.N. Sunderson (Minerals) Ltd.

(6) The number of persons employed in the mines or works or upon the said lands specifying nationality, qualifications and pay of the technical personal.

(7) Such other facts, particulars and circumstances at the Central or the state Governments may from time to time require and shall also furnish free of charge to such officers and at such times as the Central and State Governments may appoint true and correct abstract of all or any such books of accounts and such information and returns to all or any of the matters aforesaid as the State Government may prescribe and shall at all reasonable times allow such officers as the Central Government or State Government shall in that behalf appoint to enter into and have free access to the said officers for the purpose of examining and inspecting the said books of accounts plans and records and to make copies there of and make extracts therefrom.

11 The lessee/lessees shall at all times during the said term maintain at the mine office correct intelligible up-to-date and complete plans and sections of the mines in the said lands. They shall show the operations and working and all the trenches, pits and drillings made by him/tham in the course of operations carried on by him/them under the lease, faults and other disturbances encountered and geological data and all such plans and sections shall be amended and filled up by and from actual surveys to made for that purpose at the end of twelve months or any period specified from time to time and the lessee/lessees shall furnish free of charge to the central and State Government true and correct copies of such plans and sections whenever required. Accurate records of all trenches, pits and drillings shall show:-

To
maintain
plans
etc.

(a) The sub soil and strata through which they pass.

(b) Any mineral encountered.

(c) Any other matter of interest and all data required by the Central and State Governments from time to time.

The lessee/lessees shall allow any officer of the Central or the State Government authorised in this behalf by the Central Government to inspect the same at all reasonable times. He/they shall also supply when asked for by the State Government/ the Geol Controller/the Director, Geological Survey of India/The Director, Indian Bureau of Mines, a composite plan of the area showing thickness, dip/inclination, etc of all the seams as also the seams as also the quantity of reserves quality wise.

11 (A) The lessee shall pay a wages not less than the Minimum wage prescribed by the Central or State Government from time to time.

11 (B) The lessee shall comply with provisions of the mines Act- 1952.

(C) The lessee shall take measures for the protection of environment like planting of trees, reclamation of land, use of pollution control devices, and such other measures as may be prescribed by the central or state Government from time to time at his own expenses.

(D) The lessees shall pay compensation to the Occupier of the land on the date and in the manner laid down in these rules.

For S.N. Sunderson (Minerals) Ltd.



Attorney.


S.N. Sunderson

- 12 The lessee/lessees shall be bound by such rules as may be issued from time to time by the Government of India under Section 18 of the Mines and Minerals (Regulation and Development) Act, 1957 (Act 67 of 1957) and shall not carry on mining or other operations under the said lease in any way other than as prescribed under these rules. Act 67 of 1957.
- 13 Unless specifically exempted by the State Government the lessee/lessees shall provide and at all times keep at or near the pit head or each of the pit heads at which the said minerals shall be brought to bank a properly constructed and efficient weighing machine and shall weigh or cause to be weighed thereon all the said minerals from time to time brought to bank sold, exported and converted and also the converted products and shall at the close of each day cause the total weights, ascertained by such means of the said minerals, ores products raised, sold, exported and converted during the previous twenty four hours to be entered in the aforesaid books of accounts, The lessee/lessees shall permit the State Government at all times during the said term to employ any person or persons to be present at the weighing of the said minerals as aforesaid and to keep accounts thereof and to check the accounts kept by the lessee/lessees The lessee/lessees shall give 7 days previous notice in writing to the Deputy Commissioner / Collector of every such measuring or weighing in order that he or some officer on his behalf may be present thereat. To provide weighing machine.
- 14 The lessee / lessees shall allow any persons or persons appointed in that behalf by the State Government at any time or times during the said term to examine and test every weighing machine to be provided and kept as aforesaid and the weights used therewith in order to ascertain whether the same respectively are correct and in good repair and order and if upon any such examination or testing any such weighing machine or weights shall be found incorrect or out of repair order the State Government may require that the same be adjusted and put in order by and at the expense of the lessee /lessees and if such requisition be not complied with within fourteen days after the same shall have been made, the State Government may cause such weighing machine or weights to be adjusted, repaired, and put in order and the expense of so doing shall be paid by the lessee/lessees to the State Government on demand and if upon any such examination or testing as aforesaid any error shall be discovered in any weighing machine. To allow test of weighing machine

for S.N. Sunderson (Minerals) Ltd.


Attorney.


जिला सतना (म.प्र.)

or weights to the prejudice of the State Government such error shall be regarded as having existed for three calendar months previous to the discovery thereof from the last occasion of so examining and testing the same weighing machine and weights in case such occasion shall be within such period of three months and the said rent and royalty shall be paid and accounted for accordingly.

- 15 The lessee/lessees shall make and pay reasonable satisfaction To pay and compensation for all damage injury or disturbance of pers- compen- on or property which may be done by or on the part of lessee/ sation for lessees in exercise of the liberties and power granted by these injury of presents and shall at all times save harmless and keep indem- third nified the State Government from and against all suits claims parties. and demands which may be brought or made by any person or persons in respect of any such damage injury or disturbance In case of Government land the lessee shall grant Compensation equal to 60 or 90 times of land revenue (that may be assessed in case it has not been assessed, in case of lessees of 20 or 30 years respectively.
- 16 The lessee/lessees will exercise the liberties and powers hereby Not to granted in such a manner as to offer no unnecessary or reason- obstruct ably avoidable obstruction or interruption to the development working and working within the said lands of any minerals not included of other in this lease and shall at all times afford to the Central and state minerals Government and to the holders of prospecting licenses or min- ing leases in respect of any such minerals or any minerals with in any land adjacent to the said lands as the case may be reason- able means of access and safe and convenient passage upon and across the said lands to such minerals for the purpose of getting working developing and carrying away the same provided that the lessee/lessees shall receive reasonable compensation for any damage or injury which he/they may sustain by reason or in consequence of the use of such passage by such lessees or holders of prospecting licences.
- 17 (1) The lessee/lessees shall not without the previous consent Transfer in writing of the State Government which in the case of mining of lease lease in respect of any mineral specified in the first schedule to the Act shall not be given except after previous approval of the Central Government:-

For S.N. Sunderson (Minerals) Ltd.
S. Sunderson
Attorney.


सचिव (अभियंता)
महाराष्ट्र सरकार (मंत्रालय)

(14)

- (a) assign, subject, mortgage or in any other manner transfer the mining lease, or any right, title or interest therein or
- (b) enter into or make any arrangement, contract or understanding whereby the lessee / lessees will or may be directly or indirectly financed to a substantial extent by, or under which the lessees's operations or undertakings will or may be substantially controlled by, any person or body or persons other than the lessee / lessees. Provided that the State Government shall not give its written consent unless,—
- (a) the lessee has furnished an affidavit along with his application for transfer of the mining lease specifying therein the amount that he has already taken or proposes to take as consideration from the transferee.
- (b) the transfer of the mining lease is to be made to a person or body directly undertaking mining operations.
- (2) Without prejudice to the above provisions, the lessee / lessees may, subject to the conditions specified in the proviso to rule 35 of said rules transfer this lease or any right, title or interest therein to a person holding a certificate of approval and an income tax clearance certificate from the income tax officer concerned on payment of a fee of rupees one hundred to the State Government provided that the lessee / lessees shall make available to the transferee the original or certified copies of all plans of abandoned working in the area and in a belt 65 metres wide & surrounding it.
- (Provided further that where the mortgage is an institution or a Bank or a cooperation specified in schedule V it shall not be necessary for any such a institution or Bank or Co-operation to hold the said Certificate of Approval and the said income-tax clearance certificate.)
- (3) The State Government, may by order in writing determine the lease at any time if the lessee / lessees has / have in the opinion of the State Government committed a breach of any of the above provisions or has / have transferred the lease or any right, title or interest therein otherwise than in accordance with clause (2). Provided that no such order shall be made without giving the lessee / lessees a reasonable opportunity of stating his / their case.

For S.N. Sunderson (Minerals) Ltd.


Attorney.


S.N. Sunderson (Minerals) Ltd.

18. The lease shall not be controlled and the lessee/lessees shall not allow themselves to be controlled by any Trust, Syndicate, Corporation, Firm or person except with the written consent of the Central Government. The lessee / lessees shall not enter into or make any arrangement compact or understanding whereby the lessee / lessees will or may be directly or indirectly financed by or under which the lessee/lessees operations or undertakings will or may be carried on directly or indirectly or indirectly by or for the benefit of or subject to the control of any Trust, Syndicate, Corporation firm or persons unless with the written sanction given prior to such arrangement compact or understanding being entered into or made of the Central Government and any or every such arrangement compact or understanding as aforesaid (entered into or made with such sanction as aforesaid) shall only be entered into or made and shall always be subject to an express condition binding upon the other party or parties thereto that on the occasion of state of emergency of which the president of India in his discretion shall be the sole judge it shall be terminable if so required in writing by the State Government shall in the event of any such requisition being made by forthwith thereafter determined by the lessee / lessees accordingly.

Not to be financed or controlled by a Trust, Corporation Firm or person

19. whenever the security deposit of Rs ~~2000/-~~ ^{10,000/-} or any part thereof or any further sum hereafter deposited with the State Government in replenishment thereof shall be forfeited or applied by the Central or State Government pursuant to the power hereinafter declared in the behalf the lessee / lessees shall deposit with the State Government such further sum as may be sufficient with unappropriated part thereof to bring the amount in deposit with the State Government up to the sum of Rs ~~2000/-~~ ^{10,000/-}


Lessee shall deposit any additional amount necessary.

20. The lessee /lessees shall at the expiration or sooner determination of the said term or any renewal thereof deliver upto the State Government all mines pits shafts in drifts levels, waterways airways and other works now existing or hereafter to be sunk or made on or under the said lands except such as have been abandoned with the sanction of the State Government and in any ordinary and fair course of working all engines, machinery, plant, buildings structures other works and conveniences which at the commencement of the said term were upon or under the said lands and all such machinery set up by the lessee /lessees below ground which cannot be removed without causing injury.

Delivery of workings in good order to State Government after determination of lessees

For S.N. Sunderson (Minerals) Ltd.


Attorney.


S.N. Sunderson
Minerals Ltd.

to the mines or works under the said lands (except such of the same as may with the sanction of the State Government have become disused) and all building and structures of bricks or stone erected by the lessee/lessees above ground level in good repair order and condition and fit in all respects for further working of the said mines and the said mineral,

21. (a) The State Government shall from time to time and all times during the said term have the right (to be exercised by notice in writing to the lessee/lessees) of pre-emption of the said minerals (and all products thereof) lying in or upon the said lands hereby demised or elsewhere under the control of the lessee/lessees and the lessee/lessees shall with all possible expedition deliver all minerals or products or mineral purchased by the State Government under the power conferred by this provision in the quantities at the times in the manner and at the place specified in the notice exercising said right.

(b) Should the right of pre-emption conferred by this present provision be exercised and a vessel chartered to carry the minerals or products thereof procured on behalf of the State Government or the Central Government be detained on demurrage at the port of loading the lessee/lessees shall pay the amount due for demurrage according to the terms of the charter party of such vessel unless the State Government shall be satisfied that the delay is due to causes beyond the control of the lessee/lessees.

(c) The price to be paid for all minerals products of minerals taken in pre-emption by the State Government in exercise of the right here by conferred shall be the fair market price prevailing at the time of pre-emption PROVIDED THAT in order to assist in arriving at the said fair market price the lessee/lessees shall also required furnish to the State Government for the confidential information of the Government particulars of the quantities, descriptions and prices of the said minerals or products thereof sold to other customers and of charters entered into for freight for carriage of the same & shall produce to such officer or officers as may be directed by the State Government original or authenticated copies of contracts and charter parties entered into for the sale or freightage of such minerals or products.

(d) In the event of the existence of a war or emergency of which existence the President of India shall be sole judge and notification to this effect in the Gazette of India shall be conclusive proof) the State Government with the consent of the Central Government shall from time to time and all times during the said term have the right (to be exercised by a notice in writing to the lessee/lessees) forthwith take possession and control of the works, plant machinery and premises of the lessee/lessees on or in connection with the said lands or operations under this lease and during such possession or control the lessee/lessees shall conform to and obey all directions given by or on behalf of the Central Government or State Government regarding the use or employment of such works, plants, premises and minerals PROVIDED THAT fair compensation which shall be determined in default of agreement by the State Government shall be paid to the lessee/lessees for all loss or damage sustained by him/

For S.N. Sunderson (Minerals) Ltd.


Attorney.


S.N. Sunderson

them by reason or in consequence of the exercise of the powers conferred by this clause and PROVIDED ALSO that the exercise of such powers shall not determine the said term hereby granted or affect the terms and provisions of these presents further than may be necessary to give effect to the provisions of this clause.

22. The lessee/lessees shall not employ, in connection With the mining operations any person who is not an Indian national except with the previous approval of the central Government.

Employment of foreign national.

23. If any of the works or matters which in accordance with the covenants in that behalf hereinbefore contained are to be carried or performed by the lessee/lessees be not so carried out or performed Within the time specified in that behalf the State Government may cause the same to be carried out or performed and the lessee/lessees shall pay the State Government or demand all expenses which shall be incurred in such carrying out or performance of the same and the decision of the State Government as to such expenses shall be final.

Recovery of expenses incurred by the State Government

24. The lessee / lessees shall furnish: -

Furnishing geophysical data

(a) all geophysical data relating to mining fields of engineering and ground water surveys, such as anomaly maps, sections, plans, structures, contour maps, logging, collected by him / them during the course of mining operations to the Director Geological Survey of India, Calcutta.

(b) all information pertaining to investigations of radio active minerals collected by him / them during course of mining operations to the Secretary, Department of Atomic Energy, New Delhi

Data or information referred to above shall be furnished every year reckoned from the date of commencement of the period of the mining lease.

PART VIII.

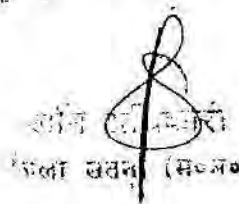
THE COVENANTS OF THE STATE GOVERNMENT.

The lessee / lessees paying the rents, water rate and royalties hereby reserved and observing and performing all the covenants and agreements herein contained and on the part of the lessee / lessees to be observed and performed shall and may quietly hold and enjoy the rights and promises hereby demised for and during the term hereby granted without any unlawful interruption from or by the State Government, or any person rightfully claiming under it.

Lessee/ Lessees may hold and enjoy rights quietly

For S.N. Sunderson (Minerals) Ltd.


Attorney.


State Government (Minerals)

2. If in accordance with the provision of clause 4 of part VII of this Schedule the lessee/lessees shall offer to pay to an occupier of the surface of any part of the said lands compensation for any damage or injury which may arise from the proposed operations of the lessee/lessees and the said occupier shall refuse his consent to the exercise of the right and powers reserved to the State Government and demised to the lessee/lessees these presents and the lessee/lessees shall report the matter to the State Government and shall deposit with it the amount offered as compensation and if the Central/State Government are satisfied that amount of compensation offered is fair and reasonable or if it is not so satisfied and the lessee/lessees shall have deposited with it such further amount as the State and Central Government shall order the occupier to allow the lessee/lessees to enter the land and to carry out such operations as may be necessary for the purpose of this lease. In assessing the amount of such compensation to the State Government shall be guided by the principles of the land Acquisition Act

Acquisition of land of third parties and compensation there of

3. Where the mining lease relates to any mineral not specified in the first Schedule to the Act it shall be renewable for one period not exceeding the period specified in sub-section (2) of section 8, at the option of the lessee/lessees provided that the State Government may for reasons to be recorded in writing reduce the area applied for.

To renew

If the lease is in respect of minerals specified in first schedule of the Act, renewal will be subject to the prior approval of the Central Government

If the lessee/lessees be desirous of taking a renewed lease of the premises hereby demised or of any part or parts of them for a further term from the expiration of the term hereby granted and is otherwise eligible to/they shall prior to the expiration of the last mentioned term give to the State Government twelve calendar months previous notice in writing and shall pay the rents rates and royalties hereby reserved and shall observe and perform the several covenants and agreements herein contained and on the part of the lessee/lessees to be observed and performed upto the expiration of the term hereby granted. The State Government on receipt of application for renewal shall consider it in accordance with rule 28 of the said rules and shall pass orders as it deems fit if renewal is granted the State Government will at the expense of the lessee/lessees a renewed lease of the said premises or part there of for the further term of ~~one~~ ^{two} years at such rents rates and royalties and on such terms and subject to such rents, rates and royalties and on such terms and subject to such covenants and agreements, including this present covenant to renew as shall be in accordance with the mineral Concession Rules, 1960 applicable to Limestone & Dolomite (Name of the mineral) on the day next following the expiration of the term hereby granted

4. The lessee/lessees may at any time determine this lease by giving not less than 12 calendar months notice in writing to the State Government or to such officer or authority as the State Government may specify in this behalf and upon the expiration of such notice provided that the lessee/lessees shall upon such expiration tender and pay all rents water rates, royalties, compensation for damages and

Liberty to determine the lease

For S.M. Sunderson (Minerals) Ltd.


Attorney.


S.M. Sunderson (Minerals) Ltd.

This approval is subject to further condition that afforestation should be undertaken by the applicant along road, sides, lease boundary and back filled workings reclamation and afforestation will be undertaken by the applicant simultaneously with conclusion or mining operations in part of the area.

21-~~st~~ subject to the rights of the state Government and the obligations of the lessee under clause 21 above, the lessee here by undertakes the in respect of all flux or fettling grade limestone/dolomite/marble (that is with acid insolubles of Alumina and Silica less than 15 Per cent) he shall win from the leased area, the lessee shall-

(a) offer the first option of purchase to the Hindustan steel limited, Ranchi, at such price and other terms as may be agreed upon between the lessee and the said H.S.L. in advance from year to year such price and terms being no less favourable than those prevalent in the particular year in the market), and,

(b) to the extent, the said Hindustan steel limited do not exercise that first option in the particular year, offer the second option of purchase to any other steel plant in the country, at such price and other terms as may be agreed upon between the lessee and such other steel plant, before otherwise disposing of such limestone/dolomite/marble

(c) in the event of any disagreement or dispute arising between the lessee and the said Hindustan steel Limited (or other steel plant) relating to the price or any other terms or any other matters relating to the exercise of the options aforesaid, the point at dispute shall be referred to the state Government for decision provided further that in case the lessee or the said Hindustan steel Limited (or other steel plant) is still aggrieved by the decision of the state Government on such point the matter shall be referred to the secretary to the Government of India in the Ministry of Mines and the Fuel and the decision of the said secretary or of any officer nominated by him for the purpose, as the case may be, shall be final and binding on all concerned.

For S.N. Sunderson (Minerals) Ltd.


Attorney.


S.N. Sunderson

other moneys which may then be due and payable under these presents to the lessor or and other person or persons and shall deliver these presents to the State Government then this lease and the said term and the liberties, powers and privileges hereby granted shall absolutely cease and determine but without prejudice to any right or remedy of the lessor in respect of any breach of the covenants or agreement contained in these presents.

- (4A) The State Government may on an application made by the lessee permit him to surrender one or more minerals from his lease which is for a group of minerals on the ground that deposits of that mineral have since exhausted or depleted to such an extent that it is no longer possible to work the mineral economically, subject to the condition that the lessee
 - (b) makes an application for such surrender of mineral at least six months before the intended date of surrender and,
 - (c) Gives an undertaking that he will not cause any hinderance in the working of the mineral so surrendered by any other person who is subsequently granted a Mining lease for the mineral.

- 5 On such date as the State Government may elect within 12 calendar months after the determination of this lease or of any renewal thereof the amount of the security deposit paid in respect of this lease and then remaining in deposit with the State Government and not required to be applied to any of the purposes mentioned in this lease shall be refunded to the lessee/lessees. No interest shall run on the security Deposit

Refund of security deposits.

PART IX

GENERAL PROVISIONS

- 1. In case the lessee/lessees or his/their transferee / assignee do not allow entry or inspection by the officers authorised by the Central or State Government under clauses (i) (ii) or (1) of such rule (1) of Rule 27 of said Rules, the state Government shall give notice in writing to the lessee/lessees requiring him/them to show cause within such time as may be specified in the notice why lease should not be determined and his/their security deposit forfeited and if the lessee/ lessees fails/fail to show cause within the aforesaid time to the satisfaction of the State Government, the State Government may determine the lease and forfeit the whole or part of the security deposit.
- 2. If the lessee/ lessees or his/their transferee or assignee makes/ make any default in payment of rent or water rate or royalty as required by Section 9 of the act or commits a breach of any of the conditions and covenants other than those referred to in covenant (1) above, the State Govt. shall give notice to the lessee/lessees requiring him/them to pay the rent, water rate, royalty or remedy the breach as the case may, within sixty days from the date of receipt of the notice and if the rent water rate and royalty are not paid or the breach is not remedied within such

Obstructions to inspection

penalty in case of default in payment of royalty and breach of covenants.

For S.N. Sunderson (Minerals) Ltd.

[Signature]
Attorney,


[Signature]
Sunderson (Minerals) Ltd.

period, the state Government may without prejudice to any proceedings that may be taken against him/them determine the lease and forfeit the whole or part of the security deposit.

3. In cases of repeated breaches of covenants and agreements by the lessee/ lessees for which notice has been given by the State Government in accordance with clauses (1) and (2) aforesaid on earlier occasion the State government without giving any further notice may impose such penalty not exceeding twice the amount of annual dead rent specified in clause 2, part V **Penalty for repeated breaches of covenants**
4. Failure on the part of the lessee/lessee to fulfil any of the terms and conditions of this lease shall not given the Central or State Government any claim against the lessee/lessees or be deemed breach of this lease, in so far as such failure is Considered by the said Government to arise from force majeure and if through force majeure the fulfilment by the lessee/lessees of any of the terms and conditions of this lease be delayed the period fixed by this lease. In this clause the expression "force majeure" means Act of God war, insurrection riot, Civil Commotion strike earthquake, tide storm tidal wave, flood lightning, explosion, fire earthquake and any other happening which the lessee/ lessees could not reasonably Prevent or control. **Failure to fulfil the terms or leases due to "Force Majeure,,**
5. The lessee/lessees having first Paid and discharged rents, rates and royalties Payable by virtue of these provisions may at the expiration or sooner determination or the said term or within six calendar months thereafter (unless the lease shall be determined under clauses 1 and 2 of this Part and in that case at any time not less than three calendar months nor more than six calendar months after 4 such determination) take down and remove for his/ their own benefit all or any engines machinery, plant buildings, Structures, tramways, railways and other works erections and conveniences which may have been erected set up or placed by the lessee/ lessees is/ are not bound to deliver to the state Government under clause 20 of Part VII of this Schedule and which State Government shall not desire to purchase. **Lessee/ lessees to remove his/ their properties on the expiry of lease.**
6. If at the end of six calendar months after the expiration or sooner determination of the said term under the provision contained in Clause 4 of Part VIII of this Schedule become effective there shall remain upon the said land any engines, machinery plant, building, structures, tramways, railways and other work erections and conveniences or other property which are not required by the lessee/ lessees in connection with operations in any Other Lands held by him / them under Prospecting licence or mining Lease the same shall if not removed by the Lessee/ Lessees within One calendar month after notice in writing requiring their removal has been given to the lessee/lessees by the State Govt be deemed to become the property of the State Govt and may be sold or disposed of in such manner as the State Government shall deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof. **Forfeiture of property left more than six months after determination of lease.**
7. Every notice by these provisions required to be given to the lessee/less shall be given in writing to such person resident on the said lands as the lessee/ **Notices**

For S.N. Sunderson (Minerals) Ltd.


Attorney.


S.N. Sunderson (Minerals)

lessees may appoint for the purpose of receiving such notices and if there shall have been no such appointment the every such notices shall be sent to the lessee/ lessees by registered post addressed to the lessee/lessees at the address recorded in this lease/ or at such other address in India as the lessee/lessees may from time to time in writing to the State Government designate for the receipt of notices and every such service shall be deemed to be proper and valid service upon the lessee/lessees and shall not be questioned or challenged by him.

8. If in any event the orders of the State Government are revised, reviewed or cancelled by the Central Government in pursuance of proceedings under Chapter VII of the Mineral Concession Rules, 1960, the lessee/lessees shall not be entitled to Compensation for any loss sustained by the lessee/lessees in exercise of the powers and privileges conferred upon him/ them by these presents, **Immunity of State Government from liability to pay compensation.**

(A) the lease is executed at Katni the Tahsil town of the state Madhya Pradesh (Name of the State,) and subject to the provision of Article 226 of the Constitution of India it is hereby agreed upon by the lessee and lessor that in the event of any dispute in relation to the area under lease condition of lessee the dues realisable under the lease in respect of all matters touching the relationship of the lessee and the lessor the suits or appeals shall be filed in the Civil Court at Katni (Name of city) and it is hereby expressly agreed that neither party shall be competent to file a suit or bring any action or file petition at any place other than the court named above,

9. For the purpose of stamp duty the anticipated royalty from the demised land is Rs 3,12,302-00 per year.

IN WITNESS WHEREOF these present have been executed in the manner hereunder appearing the day and year first above written.

Witness:-

(1) Mr. Arsen
Arje
(2) Mr. Rajgopal

Witness:-

T. K. Ghosh
(1) (T. K. Ghosh)
Maikhar
(2) Mr. ...

...
जिला बोर्ड (म. प्र.)
जिला बोर्ड (म. प्र.)

...
जिला सुबाना (म. प्र.)
Signed by for and on behalf of the Governor/ president of India in the presence of

Signed by the lessee
For S.N. Sunderson (Minerals) Ltd.
...
Attorney.

...
अवकाश प्राप्त करने के लिए
अवकाश प्राप्त करने के लिए
अवकाश प्राप्त करने के लिए



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

RED-MEDIUM

CCA-Renewal

CONSENT NO: ***

PCB ID: 19311

Outward No:113685,07/10/2021

Consent No:AW-54391

To,
The Occupier,
M/s. S.N.S.(Minerals) Ltd. Lime Stone Mines Village TAMORIA,
42.567 HECT., REWA ROAD MAIHAR,
TAMORIA, City : Tamoriya, Dist : Satna, Tal : Maihar, SIDC : Latitude : 24.3023 Longitude :
80.8974

Subject: Grant of Renewal of Consent under section 25 of the Water (Prevention & Control of Pollution) Act,1974 under section 21 of the Air (Prevention & Control of Pollution) Act,1981

Ref: Your Renewal of Consent Application Receipt No. 1086295 Dt. 10/09/2021 and last communication received on Dt.14/09/2021

With reference to your above application for Renewal of Consent has been considered under the aforesaid Acts and existing rules therein. The M. P. Pollution Control Board has agreed to grant consent up to **24/12/2024**, subject to the fulfillment of the terms & conditions, enclosed with this letter and-

SUBJECT TO THE FOLLOWING CONDITIONS :-

- a. Location: Survey No -164, Village -Tamoria Tehsil – Maihar, Distt - Satna (M.P.)
- b. Mining Lease area: 42. 42.567 ha
- c. Product & Production Capacity:

Activity / Product	Qty / year
Mining of Lime Stone	5,00,000 Metric Ton per year

Note:- For any change in above industry shall obtain fresh consent from the board.

The Validity of the consent is up to **24/12/2024** and has to be renewed before expiry of consent validity. Online application through XGN with annual license fees in this regard shall be submitted to this office 6 months before expiry of the consent/Authorization. Board reserves the right to amend/cancel / revoke the above condition in part or whole as and when required.

Enclosures:-

- * Conditions under Water Act
- * Conditions under Air Act
- * General conditions

CC to :-

1. District Mining Officer, (Mining Section), Collector office, Satna Dist. Satna (M.P.) for information.
2. M.P. State Mining Corporation, Arera Hills, Jail Road, Bhopal (M.P.) for necessary action please.
3. Regional officer, Regional office, MPPCB, Satna (M.P.)

Signature Not Verified
Digitally Signed by : A. A
Mishra, Member Secretary
Date: 07/10/2021 06:48:44 AM

ACHYUT ANAND MISHRA
Member Secretary



(Organic Authentication on AADHAR from UIDAI Server)
TPAV # V4BM32YPMQ



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

CONDITIONS PERTAINING TO WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974 :-

1. The daily quantity of trade effluent at out fall of the unit shall not exceed 0.500 KL/day, and the daily quantity of sewage at out fall of the unit shall not exceed 0.500 KL/day

2. Trade Effluent Treatment:-

The applicant shall provide comprehensive effluent treatment system as per the proposal submitted to the Board and maintain the same properly to achieve following standards-

pH	Between	5.5 – 9.0	TDS	Not exceed	2100 mg/l.
Suspended Solids	Not exceed	100 mg/l.	Chlorides	Not exceed	1000 mg/l.
BOD ₃ Days 27 °C	Not exceed	30 mg/l.			
COD	Not exceed	250 mg/l.			
Oil and grease	Not exceed	10 mg/l.			

For other parameters general standards of discharge as notified under EP Act 1986 shall be applicable.

3. Sewage Treatment :- The applicant shall provide comprehensive sewage treatment system as per the proposal submitted to the Board and maintain the same properly to achieve following standards-

pH	Between	5.5 – 9.0
Suspended Solids	Not exceed	100 mg/l.
BOD ₃ Days 27 °C	Not exceed	30 mg/l.
COD	Not exceed	250 mg/l.
Oil and grease	Not exceed	10 mg/l.

Sr	Water Code (Qty in klpd - Kilo Ltr per Day)	WC : 9.500	WWG : 1.000	Water Source	Remark
1	Domestic Purpose	0.500	0.000	Other	
2	Others	9.000	0.000	mine water	

4. The effluent shall be treated up to prescribed Standards and reuse in the process, for cooling and for green belt devolvement/gardening within premises. Hence zero discharge condition shall be practiced. In no case treated effluent shall be discharged outside of industry/unit premises.

5. Any change in production capacity, process, raw material used etc. and for any enhancement of the above prior permission of the Board shall be obtained. All authorized discharges shall be consistent with terms and conditions of this consent. Facility expansions, production increases or process modifications which result new or increased discharges of pollutants must be reported by submission of a fresh consent application for prior permission of the Board

6. All treatment/control facilities/systems installed or used by the applicant shall be regularly maintained in good working order and operate effectively/efficiently to achieve compliance of the terms and conditions of this consent

7. The specific effluent limitations and pollution control systems applicable to the discharge permitted herein are set forth as above conditions.

8. Compilation of Monitoring data-

i. Samples and measurements taken to meet the monitoring requirements specified above shall be representative of the volume and nature of monitored discharge.

ii. Following promulgation of guidelines establishing test procedures for the analysis of pollutants, all sampling and analytical methods used to meet the monitoring requirements specified above shall conform to such guidelines unless otherwise specified sampling and analytical methods shall conform to the latest edition of the Indian Standard specifications and where it is not specified the guidelines as per standard methods for the examination of Water and Waste latest edition of the American Public Health Association, New York U.S.A. shall be used.

iii. The applicant shall take samples and measurement to meet the monthly requirements specified above and report online through XGN the same to the Board.

9. Recording of Monitoring Activities & Results-

i. The applicant shall make and maintain online records of all information resulting from monitoring activities by this Consent.

ii. The applicant shall record for each measurement of samples taken pursuant to the requirements of this Consent as

Consent No:AW-54391



follows:

- (i) The date, exact place and time of sampling
- (ii) The dates on which analysis were performed
- (iii) Who performed the analysis?
- (iv) The analytical techniques or methods used and
- (v) The result of all required analysis

iii. If the applicant monitors any Pollutant more frequently as is by this Consent he shall include the results of such monitoring in the calculation and reporting of values required in the discharge monitoring reports which may be prescribed by the Board. Such increased frequency shall be indicated on the Discharge Monitoring Report Form.

iv. The applicant shall retain for a minimum of 3 years all records of monitoring activities including all records of Calibration and maintenance of instrumentation and original strip chart regarding continuous monitoring instrumentation. The period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the applicant or when requested by Central or State Board or the court.

10. Reporting of Monitoring Results:-

Monitoring Information required by this Consent shall be summarized and reported by submitting a Discharge Monitoring report on line to the Board.

11. Limitation of discharge of oil Hazardous Substance in harmful quantities:-

The applicant shall not discharge oil or other hazardous substances in quantities defined as harmful in relevant regulations into natural water course. Nothing in this Consent shall be deemed to preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities, or penalties to which the applicant is or may be subject to clauses.

12. Limitation of visible floating solids and foam:

During the period beginning date of issuance the applicant shall not discharge floating solids or visible foam.

13. Disposal of Collected Solid waste/sludge-

All hazardous waste/sludge shall be disposed of as per the Authorization issued under Hazardous & other waste (M&TM) Rules 2016. And/other Solids Sludges, dirt, silt or other pollutant separated from or resulting from treatment shall be disposed of in such a manner as to prevent any pollutant from such materials from entering any such water Any live fish, Shall fish or other animal collected or trapped as a result of intake water screening or treatment may be returned to eaters body habitat.

14. Provision for Electric Power Failure-

The applicant shall assure to the consent issuing authority that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities utilized by the applicant to maintain compliance with the terms and conditions of the Consent.

15. Prohibition of By pass system of treatment facilities-

The diversion or by-pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this Consent is prohibited except :

- i. where unavoidable to prevent loss of life or severe property damage, or
- ii. Where excessive storm drainage or run off would damage any facilities necessary for compliance with the terms and conditions of this Consent. The applicant shall immediately notify the consent issuing authorities in writing of each such diversion or by-pass in accordance with the procedure specified above for reporting non-compliance.

16. Industry/Institute/mine management shall submit the information online through XGN in reference to compliance of consent conditions.



CONDITIONS PERTAINING TO AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981 :-

1. The applicant shall provide comprehensive air pollution control system consisting of control equipments as per the proposal submitted to the Board with reference to generation of emission and same shall be operated & maintained continuously so as to achieve the level of pollutants to the following standards:-

Name of section	Capacity	Stack height(mtrs)	Fuel	Control equipment to be installed	P.M, SOX, NOX(mg/NM3)
mine area	-	0	-	Green Belt, Water Sprinkler,	spm

2. Ambient air quality at the boundary of the industry/unit premises shall be monitored and reported to the Board regularly on quarterly basis: The Ambient air quality norms are prescribed in MoEF gazette notification no. GSR/826(E), dated: 16/11/09. Some of the parameters are as follows:

- Particulate Matter (less than 10 micron) - 100 $\mu\text{g}/\text{m}^3$ (PM10 $\mu\text{g}/\text{m}^3$ 24 hrs. basis)
- Particulate Matter (less than 2.5 micron) - 60 $\mu\text{g}/\text{m}^3$ (PM2.5 $\mu\text{g}/\text{m}^3$ 24 hrs. basis)
- Sulphur Dioxide [SO₂] (24 hrs. Basis) - 80 $\mu\text{g}/\text{m}^3$
- Nitrogen Oxides [NO_x] (24 hrs. Basis) - 80 $\mu\text{g}/\text{m}^3$
- Carbon Monoxide [CO] (8 hrs. Basis) - 2000 $\mu\text{g}/\text{m}^3$

3. The industry shall take adequate measures for control of noise level generated from industrial activities within the premises less than 75 dB(A) during day time and 70 dB(A) during night time.

4. The industry/unit shall make the necessary arrangements for control of the fugitive emission from any source of emission/section/activities.

5. All other fugitive emission sources such as leakages, seepages, spillages etc shall be ensured to be plugged or sealed or made airtight to avoid the public nuisance.

6. All the internal roads shall be made pucca to control the fugitive emissions of particulate matter generated due to transportation and internal movements. Good housekeeping practices shall be adopted to avoid leakages, seepages, spillages etc.

7. Industry shall take effective steps for extensive tree plantation preferably in 03 rows of the local tree species with minimum spacing of 2X2 meters within or around the industry/unit premises for general improvement of environmental conditions and as stated in below..



GENERAL CONDITIONS:

1. The non hazardous solid waste arresting in the industry/unit/unit premises sweeping, etc. be disposed off scientifically so as not to cause any nuisance/pollution. The applicant shall take necessary permission from civic authorities for disposal to dumping site. If required.

Non Hazardous Solid wastes:-

Type of waste	Quantity	Disposal
Scrap/ Plastic packing material wood, card board, gunny begs etc		Sale to authorized party/As Per CPCB. MoEF Guide lines / Others.

2. The applicant shall allow the staff of Madhya Pradesh Pollution Control Board and/or their authorized representative, upon the representation of credentials:

- To inspect raw material stock, manufacturing processes, reactors, premises etc to perform the functions of the Board.
- To enter upon the applicant's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this Consent.
- To have access at reasonable times to any records required to be kept under the terms and conditions of this Consent.
- To inspect at reasonable times any monitoring equipment or monitoring method required in this Consent: or,
- To sample at reasonable times any discharge or pollutants.

3. This consent / authorisation is transferable in nature, in case of any change in ownership / management, the new owner / partner / directors / proprietor shall immediately apply for the consent with new requisite information.

4. The issuance of this Consent does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorise any invasion of personal rights, nor any infringement of Central, State or local laws or regulations.

5. This consent is granted in respect of Water pollution control Act 1974 or Air Pollution Control act, 1981 or Authorization under the provisions of Hazardous and other Waste (Management & Transboundary movement) Rules 2016 only and does not relate to any other Department/Agencies. License required from other Department/Agencies have to be obtained by the unit separately and have to comply separately as per there Act / Rules.

6. Balance consent/authorisation fee, if any shall be recoverable by the Board even at a later date.

7. The applicant shall submit such information, forms and fees as required by the board not later than 180 day prior to the date of expiration of this consent/authorisation

8. Knowingly making any false statement for obtaining consent or compliance of consent conditions shall result in the imposition of criminal penalties as provided under the section 42(g) of the Water Act or section 38 (g) of the Air Act.

9. After notice and opportunity for the hearing, this consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to, the following :

- Violation of any terms and conditions of this Consent.
- Obtaining this Consent by misrepresentation of failure to disclose fully all relevant facts.
- A change in any condition that requires temporary or permanent reduction or elimination of the authorized discharge.

10. On violation of any of the above-mentioned conditions the consent granted will automatically be taken as canceled and necessary action will be initiated against the industry.



Consent Order

M.P. Pollution Control Board
E-5, Arera Colony
Paryavaran Parisar, Bhopal - 16 MP
Tele : 0755-2466191, Fax-0755-2463742

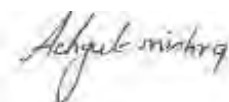
Additional conditions:-

1. The Mine shall improve their existing pollution control facilities and maintain the same properly so that the treated effluent could be maintained within the prescribed standards.
2. No effluent shall be discharged outside the Mine premises in any circumstances, hence Zero discharge condition shall be maintained.
3. Adequate & effective precautionary measures shall be taken before and during operation, maintenance and cleaning of pollution control system to avoid any accidental hazard.
4. Extensive tree plantation shall be carried out in open areas available within and around the mine premises and also overburden dumps in consultation with expert agency. Good house keeping practice shall be adopted.
5. The Mine shall have to do the work of biological reclamation as per direction of Indian Bureau of mines; GOI and ministry of Environmental & Forest Govt. of India on the internal and external dumps and yearly reclamation data shall be submitted to the Board.
6. Mine shall have to take effective steps to check the soil erosion from over burden/waste material dumping area, causing silting problem into near by nallah/ river/ pond during the rainy season. Mine shall have to inform about the progress regularly to the Board.
7. The Mine shall improve their existing pollution control facilities and maintain the same properly so that the emission could be maintained within the prescribed standards.
8. Adequate & effective precautionary measures shall be taken before and during operation, maintenance and cleaning of pollution control system to avoid any accidental hazard.
9. Controlled blasting should be practiced with the use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.
10. Vehicular emissions should be kept under control and regularly monitored for compliance of emission norms. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.
11. Mine shall submit details of yearly production data duly certified by the Distt mining officer Satna every year.
12. Mine shall develop appropriate wire fencing around the mine periphery in Compliance of Hon'ble NGT order.
13. Mine management shall submit environmental statement for the previous year ending 31st March on or before 30th September every year.
14. Mine management shall comply with the OM issued by GOI/MoeF& CC dated 26.08.2015 and report the compliance to this office.

Consent/authorization as required under the Water (Prevention & Control of Pollution) Act,1974 , The Air (Prevention & Control of Pollution) Act,1981 is granted to your industry subject to fulfillment of all the conditions mentioned above. For renewal purpose you shall have to make an application to this Board through XGN at least Six months before the date of expiry of this consent/authorisation. The applicant without valid consent (for operation) of the Board shall not bring in to use any outlet for the discharge of effluent and gaseous emission.



(Organic Authentication on AADHAR from UIDAI Server)
TPAV # V4BM32YPMQ

M.  Member Secretary

ACHYUT ANAND MISHRA
Member Secretary

Consent No:AW-54391



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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-061124-01	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 04/11/2024
 Sample Drawn By : NTL Representative
 Sampling Location : Core Zone
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 06/11/2024 to 11/11/2024
 Sampling Instrument Used : RDS Sampler, FPS Sampler
 Weather Condition : Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	62.18	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	24.50	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	10.46	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	21.80	µg /m ³	80.0

Notes: -

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
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- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

Checked by
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AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-061124-02	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On	: 04/11/2024
Sample Drawn By	: NTL Representative
Sampling Location	: Bathia Village
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 06/11/2024 to 11/11/2024
Sampling Instrument Used	: RDS Sampler, FPS Sampler
Weather Condition	: Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	58.21	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	23.08	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.76	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.89	µg /m ³	80.0

Notes: -

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-061124-03	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On	: 04/11/2024
Sample Drawn By	: NTL Representative
Sampling Location	: Karaundi Village
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 06/11/2024 to 11/11/2024
Sampling Instrument Used	: RDS Sampler, FPS Sampler
Weather Condition	: Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	57.80	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	19.20	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	9.76	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	18.84	µg /m ³	80.0

Notes: -

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-061124-04	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On	: 05/11/2024
Sample Drawn By	: NTL Representative
Sampling Location	: Nadan Village
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 06/11/2024 to 11/11/2024
Sampling Instrument Used	: RDS Sampler, FPS Sampler
Weather Condition	: Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	68.12	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	34.09	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	10.15	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	21.40	µg /m ³	80.0

Notes: -

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-061124-05	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On	: 05/11/2024
Sample Drawn By	: NTL Representative
Sampling Location	: Kanchanpur Village
Sampling Plan & Procedure	: SOP-AAQ/08
Analysis Duration	: 06/11/2024 to 11/11/2024
Sampling Instrument Used	: RDS Sampler, FPS Sampler
Weather Condition	: Clear

TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	65.02	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	27.40	µg /m ³	60.0
3.	Sulphur Dioxide	IS:5182 Part-II	10.21	µg /m ³	80.0
4.	Nitrogen Dioxide	IS:5182 Part-VI	23.50	µg /m ³	80.0

Notes: -

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Noise	AN-061124-06	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/11/2024
 Sample Drawn By : NTL Representative
 Sample Received On : 06/11/2024
 Sampling Location : Near Mine Site

RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	L _{day} (6.0 AM TO 10.0 PM)	62.4	dB(A)	Industrial Area	75	70
				Commercial Area	65	55
2.	L _{night} (10.0 PM TO 6.0 AM)	48.8	dB(A)	Residential Area	55	45
				Silence Zone	50	40

Notes: -

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- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water	W-061124-07	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn By	: NTL Representative
Sample Drawn On	: 05/11/2024
Sample Received On	: 06/11/2024
Sample Quantity	: 2.0 Lt.
Analysis Duration	: 06/11/2024 to 11/11/2024
Sample Description	: Water Sample Collected from mine pit

RESULTS

Essential test as per IS:10500-2012

S.No.	Parameter	Test Method	Results	Units	Desirable Limit	Extended Limit
1.	pH	IS:3025(Part-11)	7.56	-	6.5 - 8.5	-
2.	Colour	IS:3025(Part-4)	<5.00	Hazen	5	15
3.	Odour	IS:3025(Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025(Part-8)	Agreeable	-	Agreeable	-
5.	Turbidity	IS:3025(Part-10)	<1.00	NTU	1	5
6.	Total Hardness (as CaCO ₃)	IS:3025(Part-21)	182.50	mg/l	200	600
7.	Chloride (as Cl)	IS:3025(Part-32)	75.80	mg/l	250	1000
8.	Calcium (as Ca)	IS: 3025 (P- 40)	52.60	mg/l	75	200
9.	Iron (as Fe)	IS:3025(Part-52)	0.018	mg/l	1	No Relaxation
10.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	2.54	mg/l	45	No Relaxation
11.	Total Dissolved Solid	IS:3025(Part-16)	423.0	mg/l	500	2000
12.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	186.0	mg/l	200	600
13.	Total Suspended Solid	IS:3025(Part-17)	<1.00	mg/l	-	-
14.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	27.80	mg/l	200	400

MICROBIOLOGICAL REQUIREMENT

RESULTS

S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

Notes: -

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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Branch Office :

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MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Water	W-061124-08	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn By	: NTL Representative
Sample Drawn On	: 05/11/2024
Sample Received On	: 06/11/2024
Sample Quantity	: 2.0 Lt.
Analysis Duration	: 06/11/2024 to 11/11/2024
Sample Description	: Water Sample Collected from Bore well

RESULTS

Essential test as per IS:10500-2012

S.No.	Parameter	Test Method	Results	Units	Desirable Limit	Extended Limit
1.	pH	IS:3025(Part-11)	7.28	-	6.5 - 8.5	-
2.	Colour	IS:3025(Part-4)	<5.00	Hazen	5	15
3.	Odour	IS:3025(Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025(Part-8)	Agreeable	-	Agreeable	-
5.	Turbidity	IS:3025(Part-10)	<1.00	NTU	1	5
6.	Total Hardness (as CaCO ₃)	IS:3025(Part-21)	189.60	mg/l	200	600
7.	Chloride (as Cl)	IS:3025(Part-32)	76.21	mg/l	250	1000
8.	Calcium (as Ca)	IS: 3025 (P- 40)	54.80	mg/l	75	200
9.	Iron (as Fe)	IS:3025(Part-52)	0.024	mg/l	1	No Relaxation
10.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	3.05	mg/l	45	No Relaxation
11.	Total Dissolved Solid	IS:3025(Part-16)	398.0	mg/l	500	2000
12.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	172.0	mg/l	200	600
13.	Total Suspended Solid	IS:3025(Part-17)	<1.00	mg/l	-	-
14.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	28.40	mg/l	200	400

MICROBIOLOGICAL REQUIREMENT

RESULTS

S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

Notes: -

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
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A. Jais
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Authorized Signatory
Rajy
AUTHORIZED SIGNATORY

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MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Soil Quality	SQ-061124-09	11/11/2024

Issued To: M/s S.N.S. (Minerals) Pvt. Ltd.

Name of Mine: Tamoriya Limestone & Dolomite Mine, Area- 42.567 Hect.,

Location: Village-Tamoriya, Tehsil- Maihar, District- Satna (M.P.)

Sampling & Analysis Data

Sample Drawn On : 05/11/2024
 Sample Description : Soil Sample
 Sample Received On : 06/11/2024
 Sample Quantity : 2.0 Kg
 Weather Conditions : Normal
 Analysis Duration : 06/11/2024 to 11/11/2024

RESULTS

S.No.	PARAMETERS	TEST METHOD	RESULT	UNIT
1.	pH (1:10 suspension)	IS:2720(Part-26)	7.83	-
2.	Electrical Conductivity mS/cm	IS:2720(Part-21)	412.5	mS/cm
3.	Water holding Capacity	STP/SOIL	34.40	% by mass
4.	Porosity	STP/SOIL	30.10	% by mass
5.	Sand	STP/SOIL	53.48	% by mass
6.	Clay	STP/SOIL	24.76	% by mass
7.	Silt	STP/SOIL	22.86	% by mass
8.	Bulk Density	STP/SOIL	1.58	mg /m ³
9.	Moisture Content	STP/SOIL	25.47	% by mass
10.	Calcium (as Ca)	STP/SOIL	294.50	mg/kg
11.	Magnesium (as Mg)	STP/SOIL	193.89	mg/kg
12.	Sodium (as Na)	STP/SOIL	182.32	mg/kg
13.	Potassium (as K)	STP/SOIL	163.76	mg/kg
14.	Cation Exchange Capacity	STP/SOIL	14.22	Meq/100gm
15.	Sodium Absorption Ratio	STP/SOIL	0.75	-
16.	Nitrogen	STP/SOIL	0.028	% by mass
17.	Phosphorus(P ₂ O ₅)	STP/SOIL	7.37	mg/kg
18.	Zinc (Zn)	STP/SOIL	15.40	mg/kg
19.	Organic Matter	STP/SOIL	0.38	% by mass

Notes: -

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FORM -V

(See rule 14)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE
31ST MARCH 2024**

PART-A

(i) Name and address of the owner/occupier of the industry operation or process

M/s. S.N.S. (Minerals) Private Limited

N.H. 7, Rewa Road,

P.O.- Maihar, District Satna (M.P.)

e-mail – snsmhr@gmail.com

Owner – Tamoria Limestone Mine, Area – 42.567 Hect

Village- Tamoria, Tehsil-Maihar, District Satna (M.P.)

(ii) Industry category -Primary - (STC Code) Secondary - (STC Code) - Mining

(iii) Production capacity - 500000 TPA of Limestone & Reject Stone.

(iv) Year of establishment - Year 2011.

(v) Date of the last environmental statement submitted. - June 2023

PART-B

Water and raw material consumption

- (i) Water consumption m³ /d - 16 cum per day
Process - 13 cum per day
Cooling
Domestic - 3 cum per day

Name of products (1)	Process water consumption per unit of product output	
	During the previous financial year (2)	During the current financial year (3)
(i)	Not applicable	Not applicable
(ii)		

- (ii) Raw material consumption -

It is a case of mining and production of mineral Limestone & Reject Stone. No raw material is used as the mineral is natural resource.

Total Production during FY 2023-24 is 474044 t.

Limestone = 363500 tonnes

Reject Stone = 110544 tonnes(78400 cum)

* Name of raw material	Name of products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year

- * Industry may use codes if disclosing details of raw materials would violate contractual obligations otherwise all industries have to name the raw materials used.

PART-C

Pollution discharged to environment/unit of output. (Parameter as specified in the consent issued)

Pollution	Quantity of pollutants discharged(mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
Water	Nil	NA	Zero discharge from mine
Air	Below permissible limit	Below permissible limit	Below permissible limit

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (kg)	
	During the previous financial year	During the current financial year
(a) From process	Nil	Nil
(b) From pollution control facilities	Nil	Nil

PART-E

SOLID WASTES

	Total Quantity (kg) During the previous financial year	During the current financial year
(a) From process/mining	219960 cum	201200 cum
(b) From pollution control facility	NA	NA
(c) (1) Quantity recycled or re-utilised within the unit	NA	NA
(2) Sold	NA	NA
(3) Disposed	219960 cum (Backfilling)	201200 cum(Backfilling)

PART-F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both categories of wastes.

No hazardous waste has been generated. The solid waste consists of OB Soil, Intercalated clay & Inter bedded shale. The OB Reject Stone has been used as building material with due permission of the State Government. The over burden mine waste is being backfilled in mined out and exhausted pit.

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Positive impact has been noticed due to pollution abatement measures taken. The mining method in systematic and scientific manner attributed towards mineral conservation. It has marginal effect on the cost of the production.

The method of mining in this mine is opencast by mechanised means. The only source of air pollution i.e. generation of dust is due to plying of vehicles and drilling and blasting. Following measures were taken for minimising and controlling the pollutant level within threshold value.

AIR

- (i) Dumper fitted with a water tanker attachment has been provided at mine site for sprinkling/spraying of water on regular basis on the haul roads for preventing generation of dust or air pollution if any.
- (ii) The generation of dust or air pollution has been controlled/ prevented by restricting the speed of the vehicles, overloading and sprinkling/spraying of water on regular basis on the haul roads.
- (iii) Ambient Air quality is below the permissible limit at mine boundary and the same will be kept below the permissible limit during the course of mining operations as stipulated. For this every effort will be made as per the conditions of Environmental clearance.
- (iv) Wet drilling is carried out. Dust collectors are also attached with drill equipment.

WATER

No perennial surface water source is present within the core zone or within the nearby buffer zone. The working is being done above the ground water table. No adverse impact is envisaged. However garland drain has been prepared around dump and in slope to prevent siltation of low lying areas.

NOISE

The noise level is below threshold value in the mine. The noise level varies from 41.9 to 64.5 dBA.

PART-H

Additional measures /investment proposal for environmental protection, abatement of pollution, prevention of pollution .

No additional measure/ investment is proposed.

PART-I

Any other particulars for improving the quality of the environment.

The pollutant level is within permissible limit. No other measure is required under the present circumstances and intensity and method of mining and hence no suggestion or proposal has been made improving the quality of the environment, environmental protection, abatement of pollution and prevention of pollution.

For : M/s. S.N.S. (Minerals) Private Limited

Date: 27.05.2024

(S.P. Tiwari)
Authorised Signatory

Table 1-Annual Expenditure for CSR during year 2023-24

Tamoria Mine

Sl. No.	Activity / Benefits	Budget in lakh Rupees
1	Drinking Water supply during summer and Support for irrigation	1.50
2	Preventive measures for mitigation of mine related health problems - Distribution of Hygiene items kit.	0.25
3	Promotion of Hygiene and Sanitation, public health initiatives - Distribution of Sanitation items under Swacch Bharat Mission	0.30
4	Skill development & Vocational Training programs for local communities - Training of Machine repairing.	0.35
5	Promotion of Literacy & Education - Distribution of stationary items to school students.	0.35
6	Donation for Support to social, cultural, recreational activities - Donation to village cultural group for religious programs.	0.12
7	Livelihood & Socio- Economic standard improvement support - Aid to poor student for college studies.	0.25
8	Road Maintenance for Villagers, Vehicles provided for transport & distribution of plants	6.00
Total		9.12

Table 2-Annual Expenditure for EMP during year 2023-24

Sl. No.	Measures	cost (in Rs.)
1	Dust suppression /Water sprinkling.	200000.00
2	Garland drain and bund maintenance	20000.00
3	Pollution Monitoring	100000.00
4	Plantation in core zone and buffer zone	260000.00
5	Maintenance of Road to Mine	100000.00
6	Fencing	20000.00
9	Occupational Health, First Aid Box and PPE (Boot, helmet, goggles, ear plug and dust mask for worker)	80000.00
10	PUC certification and maintenance of Truck	25000.00
11	Drinking Water Facility for labour and staff Shelter rooms for labors	20000.00
12	Cleanliness and dust bin etc.	5000.00
13	Miscellaneous Expenses	47692.00
14	Donation to Arts Ananda Trust, Delhi	1000000.00
Total		1877692.00

PLANTATION PHOTOGRAPHS







No of plants = 750, Area = 0.650 ha., Venue = Backfilled area



POTATO FARMING



PROJECT REPORT

**SCIENTIFIC STUDY OF BLASTING TO ASSESS THE EFFECT OF GROUND VIBRATION
AND FLY ROCK WITHIN 300M OF BUILDING/STRUCTURES NOT BELONGING TO
OWNER AT TAMORIA LIMESTONE MINE(AREA 42.567 HECT.) OF**

S.N.S. (MINERALS) LIMITED

(Project Registration Number: Min/Const./Reg./17-18/11)

[PART-II]

Department of Mining Engineering



Indian Institute of Technology

(Banaras Hindu University), Varanasi 221 005

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Prof. Piyush Rai
Professor of Mining Engineering,
Dept. of Mining Engineering,
Indian Institute of Technology (IIT)
Varanasi - 221005

Dr. Suresh Kumar Sharma

**SCIENTIFIC STUDY OF BLASTING TO ASSESS THE EFFECT OF GROUND VIBRATION AND FLY
ROCK WITHIN 300M OF BUILDING/STRUCTURES NOT BELONGING TO OWNER AT TAMORIA
LIMESTONE MINE(AREA 42.567 HECT.) OF
S.N.S. (MINERALS) LIMITED**

(Project Registration Number: Min/Const./Reg./17-18/11)

[PART-II]



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1.0 General Introduction

Ground vibration induced by blasting is a serious environmental issue. With the increasing production targets from limestone and dolomite quarries, it is likely to be compounded in future, unless the proactive measures are taken to mitigate the problem. It is a serious concern for the mining industry in view of frequent and genuine complaints lodged by the inhabitants residing near the mining areas.

Especially deep-hole blasting operations in quarries are always associated with some annoyance to the surrounding areas in terms of ground vibration, noise, fly rock, etc. Hence, the existing blasting practice was observed and recorded for the ground vibration and fly rock within 300m of building/structures not belonging to owner at Tamoria Limestone Mine (Area 42.567 Hectare) of S.N.S. (Minerals) Limited, Satna (MP) in India.

1.1 Origin of the Project

The Manager, S.N.S. Minerals Limited, SATNA (MP), had requisitioned Department of Mining Engineering, IIT (BHU) Varanasi via email to Prof. Piyush Rai, dated 10.10.2017, for a consultancy work entitled “*Scientific study of blasting to access the effect of ground vibration and fly rock within 300m in building/structures not belonging to owner at Tamoria Limestone Mine (area 42.567 hectare) Of S.N.S. (Minerals) Limited*”. The project was registered in the Department of Mining Engineering, IIT (BHU) Varanasi vide work order no. Min/Const./Reg./17-18/11 dated 10.10.2017. The team of IIT (BHU) Varanasi carried out Vibration study of the existing blasting designs, practiced by the quarry, during 17-06-2018 to 18-06-2018, at the site for this assignment. Altogether four blasts were conducted. Blast induced ground vibration and air-over-pressure were monitored at various locations in the periphery of the mine and towards the villages. The monitoring locations were back side of the blast free face and in the right and left flanks of the free face.

The seismograph was kept at 2 strategic locations. Blast induced ground vibrations and air over-pressures were monitored at these locations in the periphery of the mine (10 m behind the blast) and at far off distances i.e. near mine office (350 m away). This report contains the results and analysis of the ground vibration vis-à-vis the salient blast design parameters as recorded correspondingly with the study blasts.



Fig.1: Tamoria Limestone Mine Site



Fig.2: Lease Stone of SNS (Minerals) Ltd. Mine Site



1.2 Brief Description of Regional Geology

Limestone of Tamoria Limestone Mine (area 42.567 hectare) lease area belongs to Bhandar group of Vindhyan Super Group in Satna district, Madhya Pradesh. The nearest railway station, Maihar is about 1 km, from the office of the S.N.S. (Minerals) Limited.

Vindhyan group is exposed in a vast area. It stretches from Bihar in the East to Rajasthan in the West forming NNE-SSW Syncline. The Vindhyan Super Group consists of four main groups named as follows:



Fig.3: Bedding of Limestone and Dolomite Rock Stratum



Table 1: Regional Geological Description

GROUP	FORMATION
BHANDER	UPPER BHANDER SANDSTONE
	SIRBOO SHALE
	NAGOD LIMESTONE
	GANURGARH SHALE
SATNA	GOVINDGARH SANDSTONE
	JHIRI SHALE
	ASAN SANDSTONE
	PANNA SHALE
KAIMUR	DHANDRAUL SANDSTONE
	MANGESAR FORMATION
	BIJAYGARH SHALE
	GHAGHAR SANDSTONE
	SUSNAI BRECCIA
	SASARAM SANDSTONE
SEMRI	BAGHWAR SHALE
	ROHTASGARH LIMESTONE
	RAMPUR FORMATION
	SALKHAN LIMESTONE
	KOLDIAHA SHALE
	DEONAR FORMATION
	KAJRAHAT LIMESTONE
	ARANGI LIMESTONE
	DEOLAND FORMATION

Table 2: Rock Type Setting in the Region

TYPE	MATERIAL	VALUE
RECENT SEMRI	SOIL	1.0-6.0
	SHALE	1.5-12.5
BHANDER GROUP	LIMESTONE	10.0-27.0
	SHALE	CONTINUED
HARDNESS	--	4.5
BULK DENSITY	--	2.5

The occurrence of limestone in the lease area is stratigraphically controlled and is associated with Bhander group of Vindhyan super group. Rocks of this formation comprise of Shale and Limestone. These rocks are structurally undisturbed having general trend in WNW-ESE with low dip of 1° - 2° North. The deposit is Bedded, Stratiform and tabular deposit of regular habit.

The general succession of rock in the lease area is given below :-

TYPE	MATERIAL	VALUE
RECENT	SOIL	1.0 m - 6.0 m
	DOLOMITE SHALY / REJECT STONE	1.5 m – 12.5 m
BHANDER GROUP	LIMESTONE WITH MUD STONE / REJECT STONE	10.0 m -27.0 m
	BOULDARY MUD STONE / SHALE	CONTINUED
HARDNESS	--	4.5
BULK DENSITY		2.5



The lease is situated in the western extent of upper Bhandar Basin and hence water was very shallow because mud stone (reject stone) is deposited in layers. Some where stromatolite is developed in chocolate calcareous limestone i.e. also waste limestone.

The area is replete with solution cavities and sub-terranean canyons which are common in Limestone country. These cavities are invariably filled with waste material such as Clay, Sand, Kanker & Ferruginous Limestone.

Two set of joint pattern is clearly visible in the working faces. One is along the bedding plane and the other set vertical to the bedding plane. Cavities in the Limestone strata are developed to the vertical plane which fill soil occasionally and sometimes remain void. It is fine to medium grained, light grey to dark grey in colour. Dark grey is softer than light grey Limestone and gives vigorous effervescence with hydrochloric acid. The limestone of the lease area is bedded having thickness varying from 40mm to 150mm.



1.3 Salient Features of the Blasting Design

The salient features of the blasting designs being practiced by the quarry at the study sites are given in Table-3. All study blasts were conducted on the bottom and middle benches.

Table 3: Salient features of the blasts in the study sites

Date	17-06-2018	18-06-2018	18-06-2018	18-06-2018
Blast No	1	2	3	4
Blasting Bench	Bottom bench	Bottom bench	Middle Bench	Middle Bench
Shovel Deployed	SH#02	SH#01	SH#02	SH#02
Hole Diameter (inch)	4	4	4	4
Hole Depth (m)	3	4	4	4
Total No of Holes	28	32	18	16
Spacing (m)	4	3.5	3.5	3.5
Burden (m)	4	3.5	3.5	3.5
Sub Grade (m)	0	0	0	0
Stemming Length (m)	1.5	1.5	1.5	1.5
Decking (m)	0	0	0	0
Charge Per Delay (kg)	83.4	88.96	66.72	88.96
Delay Time (ms)	TLD 25ms	TLD 25ms	TLD 25ms	TLD 25ms
Number of Rows	3	4	3	2
Firing Pattern	Row to Row	Row to Row	Row to Row	Row to Row
Drilling Pattern	Staggered	Staggered	Staggered	Staggered
Explosive Per Hole (kg) (2.78 kg each cartridge)	3 cartridges	4 cartridges	4 cartridges	4 cartridges
Total Explosive	84 Cartge. (233.52 kg)	128 Cartge. (355.84 kg)	72 Cartge. (200.16 kg)	64 Cartge. (177.92 kg)
Cast Booster	0	0	0	0
Total Nonel (nos.)	28	32	18	16



Fig.4: Accumulation of seepage Water in front of the Blasting Benches

1.4 Ground Vibration Monitoring Details

Blast induced vibrations were monitored by M/s NOMIS seismographs. It is a four channel seismograph provided with one tri-axial transducer for monitoring vibration (in mm/s) and one channel for monitoring air over-pressure (AOP)/ noise in dB (L) or Pa. This seismograph records vibration in three directions i.e. Longitudinal (L), Vertical (V) and Transverse (T). It also records peak frequency of vibration and computes the peak vector sum of the vibration. Details of ground vibration monitoring sites are given in Table 4. Photograph 5 and 6 depicts the view of monitoring location.

Table 4: Details of ground vibration monitoring sites

Company	Seismograph Nos.	Location w.r.t. blasting patch	Distance from Blasting Patch (m)
SNS (Minerals) Ltd.	13342	Behind the Blast (Near Field)	10m
	13313	Near the mine office (Far Field)	350m



Fig.5 : Ground Vibration Monitoring Site at 350m Distance from the Blasting Site



Fig.6 : Ground Vibration Monitoring Site at 10m Distance (Behind the Blast Site)

1.5 Blasting and site details

The number of holes detonated in the blasting round was 16 to 32. The diameter of blast holes was of 4 Inches (100 mm). The depth of holes varied from 3 m to 4 m and the explosives loaded in a hole ranged from 3 cartridges to 4 cartridges. TLD based blasting was carried out hence explosives weight in the blast can be suitably accepted as safe limit ($8 \times 4 = 32$ Cartridges) per Delay. The cast boosters were not provided. Details of blast design parameters monitored during the period of investigation are given in Table 3. Blast hole loading, charging and stemming details are sequentially presented from Fig. [7 to 11].



Fig.7: Blasting Site (Visible Water Body)



Fig.8: Charging of Blast Hole using Emulsion Cartridges (Shankh Prime)



Fig.9: Water in Blast Hole and Loading of Stemming Material



Fig.10: Stemming with Crushed Aggregate Material



Fig.11(a): Surface Connections Using Nonel



Fig.11(b): Bench Preparation for blasting at Tamoria Mine



Fig.11(c): Stemming using Crushed Aggregate for blasting at Tamoria Mine



Fig.11(d): Explosive Charging for blasting at Tamoria Mine

Results and Interpretations

Vibrations were monitored in terms of peak particle velocity (PPV). The vibration measuring distances were 10 m (behind the blast) and 350 m (near the mine office). As tabulated in Table-5 below, the PPV for blasts in the near field and far field, varied from 0.8889 mm/s – 5.02 mm/s depending upon the distance of measuring stations of seismographs from the blasting face and the amount of explosives detonated. The dominant frequency for these blasts ranged from 18.2 Hz to 64 Hz.



Fig.12: Flatter Muck pile Shape after Blasting

For these blasts the recorded air over-pressure (AOP) values, as evident from Table-5, were within the prescribed norms for the near and far field measurements.

United State Bureau of Mines (USBM) has correlated the damage due to air over-pressure.

As per recommendation values above 126 dB (L) complaints starts coming. Therefore, the blasts may be considered as safe blasts from AOP point of view also. The blast induced ground vibrations and air over-pressure is presented in Table-5. Photograph no. 12 depicts the fragmentation and muck profile after blasting.



Table 5: Blast induced vibration and air over pressure recorded, Tamoria Mine.

Blast No	Date of Blast	Seismo graph No.	Location of vibration measuring transducers	Distance of monitoring point from the blasting face (m)	Description of Vibration Wave Type	particle velocity (PPV) (mm/s)	Dominant Peak Frequency (Hz)	Air over-pressure dB(L)/ Frequency
1	17 th June, 2018	13313	Near mine office (away from blast face)	350	R T V PPV	NA	NA	NA
		13342	Behind the blast	10	R T V PPV	3.175 1.905 3.048 3.95	34.1 34.1 51.2 34.1	115.2/4.6
2	18 th June, 2018	13313	Near mine office (away from blast face)	350	R T V PPV	1.778 1.270 0.889 2.11	42.6 42.6 36.5 39.4	114.4/30.1
		13342	Behind the blast	10	R T V PPV	3.302 3.937 2.413 5.08	23.2 56.8 39.3 56.9	125.9/39.3
3	18 th June, 2018	13313	Near mine office (away from blast face)	350	R T V PPV	1.7781 1.524 1.524 1.86	25.6 18.2 56.8 24.4	107.5/8
		13342	Behind the blast	10	R T V PPV	3.937 2.159 3.302 4.48	34.1 28.4 64 34.1	118.1/4.9
4	18 th June, 2018	13313	Near mine office (away from blast face)	350	R T V PPV	1.016 1.524 1.143 1.58	26.9 30.1 42.6 30.1	108.8/22.2
		13342	Behind the blast	10	R T V PPV	2.032 1.905 1.778 3.1	26.9 32 51.2 25.6	124.7/11.3

Fig.13: Fine to Ultra-fine Fragmentation after blasting.

The waveform records are annexed in annexure for Tamoria mine.

The ground vibration in the far field area (near mine office) appears to be controlled under the existing blasting design. The blasts were photographed by hand held camera. However, no fly rock generation could be visualized physically or by camera.



2.1 Permissible Standards of PPV

Peak particle velocity (PPV) along with dominant frequency is universally used in practice for assessment of blast induced damage to the structures. Different countries adopt different standards depending on their type of industrial/residential buildings. In India, presently DGMS technical circular 7 of 1997 is considered as vibration standard for the safety of surface structures in mining areas. The DGMS standard is given in Table 6.

Table 6: DGMS technical circular 7 of 1997 concerning to blast vibration standard in mm/s.

S. No.	Type of Structure	Dominant Frequency level, Hz		
		< 8 Hz	8 - 25 Hz	>25 Hz
A)	Building/ Structures not belonging to the owner			
I.	Domestic house/ structures (Kuchha, Brick and Cement)	5	10	15
II.	Industrial buildings (RCC & Framed structures)	10	20	25
III.	Objectives of historical importance and sensitive structures	2	5	10
B)	Building belonging to owner with limited span of life			
I.	Domestic houses/ structures (kuchha, Brick and Cement)	10	15	25
II.	Industrial buildings (RCC & Framed structures)	15	20	50

2.2 Permissible Standards of air over pressure (AOP)

The permitted values of AOP as per USBM are given in Table 7.

Table 7: Permissible Standards of Air Over Pressure (AOP)

00 dB	Threshold of hearing
20 dB	Whisper
40 dB	Hospital Room
65 dB	Ordinary Conversation
95 dB	Riveter
115 dB	Threshold of Complaints
134 dB	Bureau of Mines recommended "Safe Level" for Blasting
140 dB	Historically Proven Safe Level
151 dB	Occasional Window Breakage
171 dB	General Window Breakage
180 dB	Possible Structure Damage



3.0 Conclusions and Recommendation

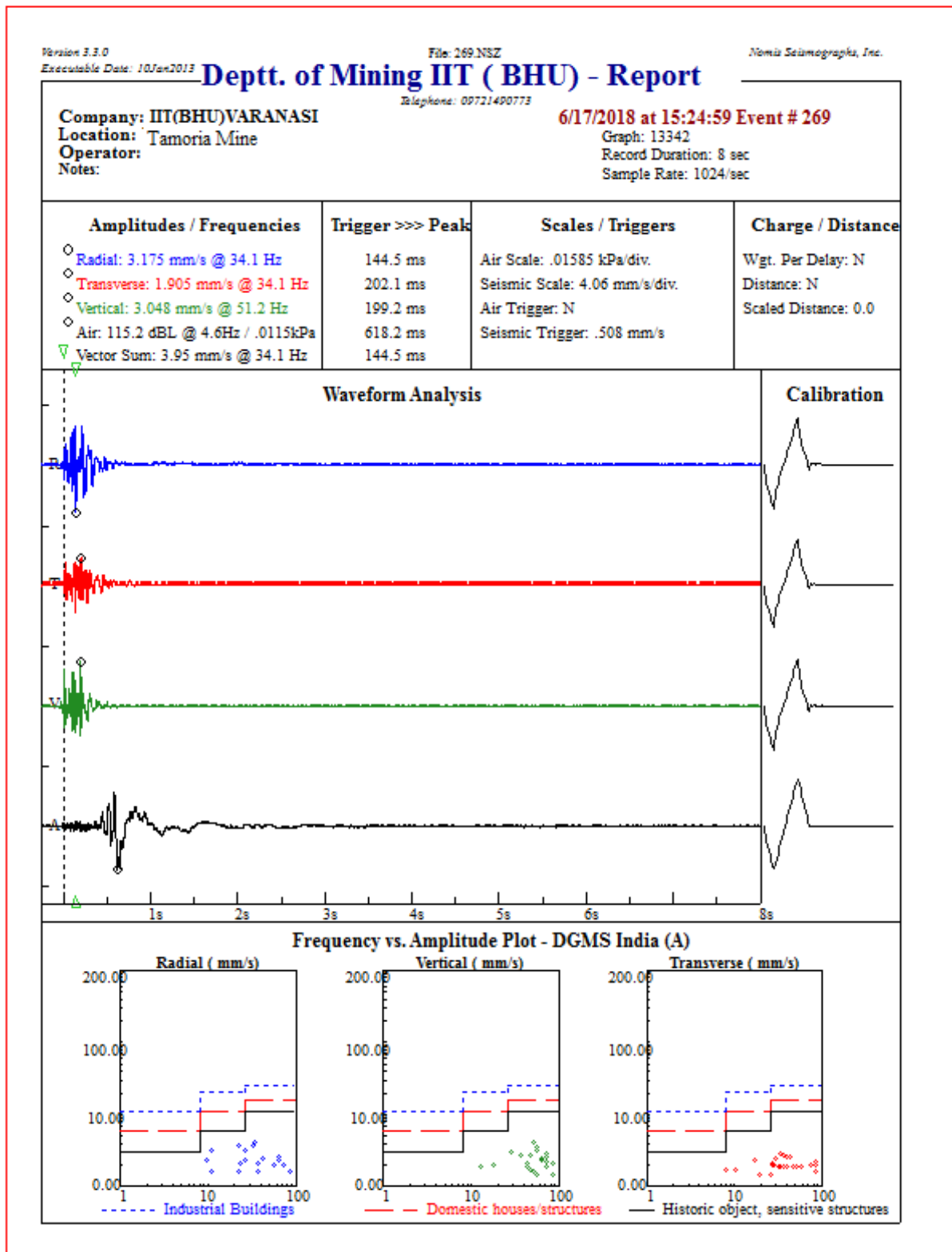
The existing blasting study reveals the following:

1. Maximum vibration recorded PPV in the near and far field locations are within the prescribed limits.
2. Air Over pressure values were well within the safe limit at the concerned locations in near field. Further, the measurements suggest that they got substantially dampened in far field locations.
3. Fly rocks appeared to be controlled in the study blasts.
4. The Nonel initiation system reduces the air over pressure (AOP) to a greater extent and improves the blasting performance too.
5. It is recommended that Nonel initiation system should be continued in the blasting operations. The sub grade drilling should be 0.3 to 0.4 m for a blast hole depth of 6 to 7 meter and explosive should be initiated from the bottom of the hole.

Based on above observations, it may be inferred that the existing blasting practices as studied during scientific study blasts are safe from the view points of ground vibration, AOP and fly rock. Fragmentation was also very good, which also implies the effectiveness of the blast design parameters. Based on this study, charge per delay may be taken as 89 kgs and charge per round of blast may be taken as 356 kgs.

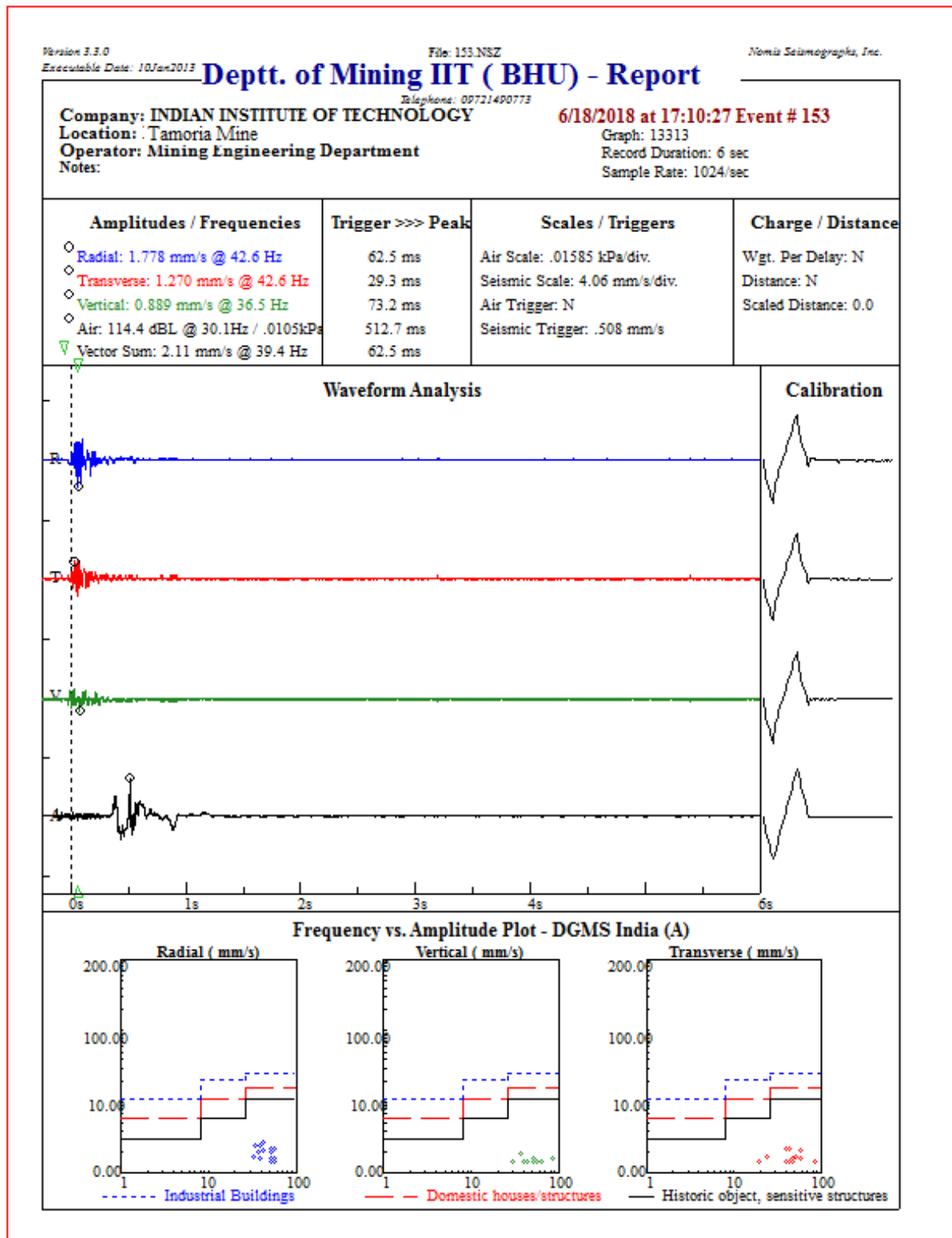


Seismograph Wave Forms 10 m behind the blast (Near Field Region) [Blast Number-1]



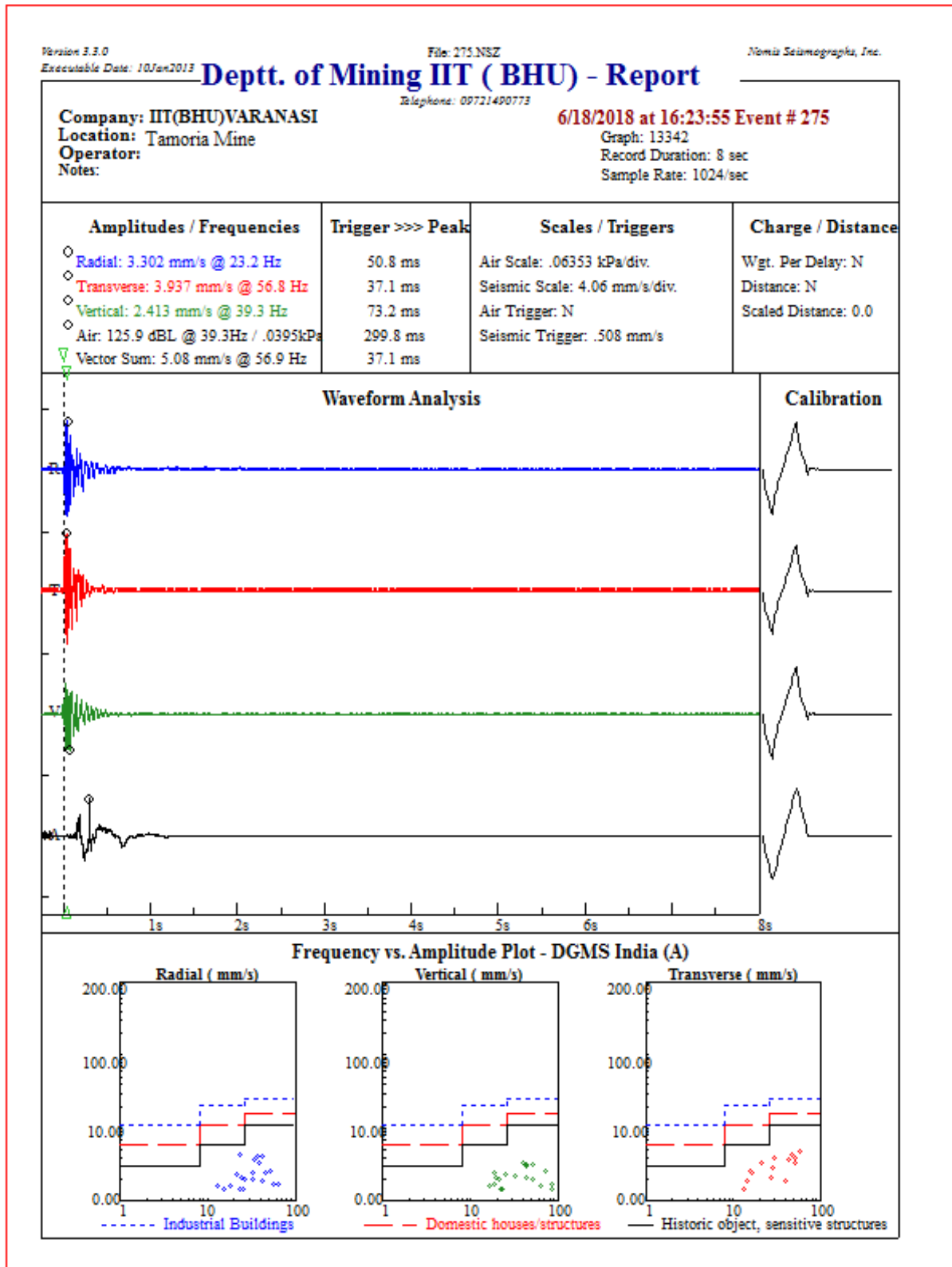


Seismograph Wave Forms almost 350 m near mine office (Far Field Region) [Blast Number-2]



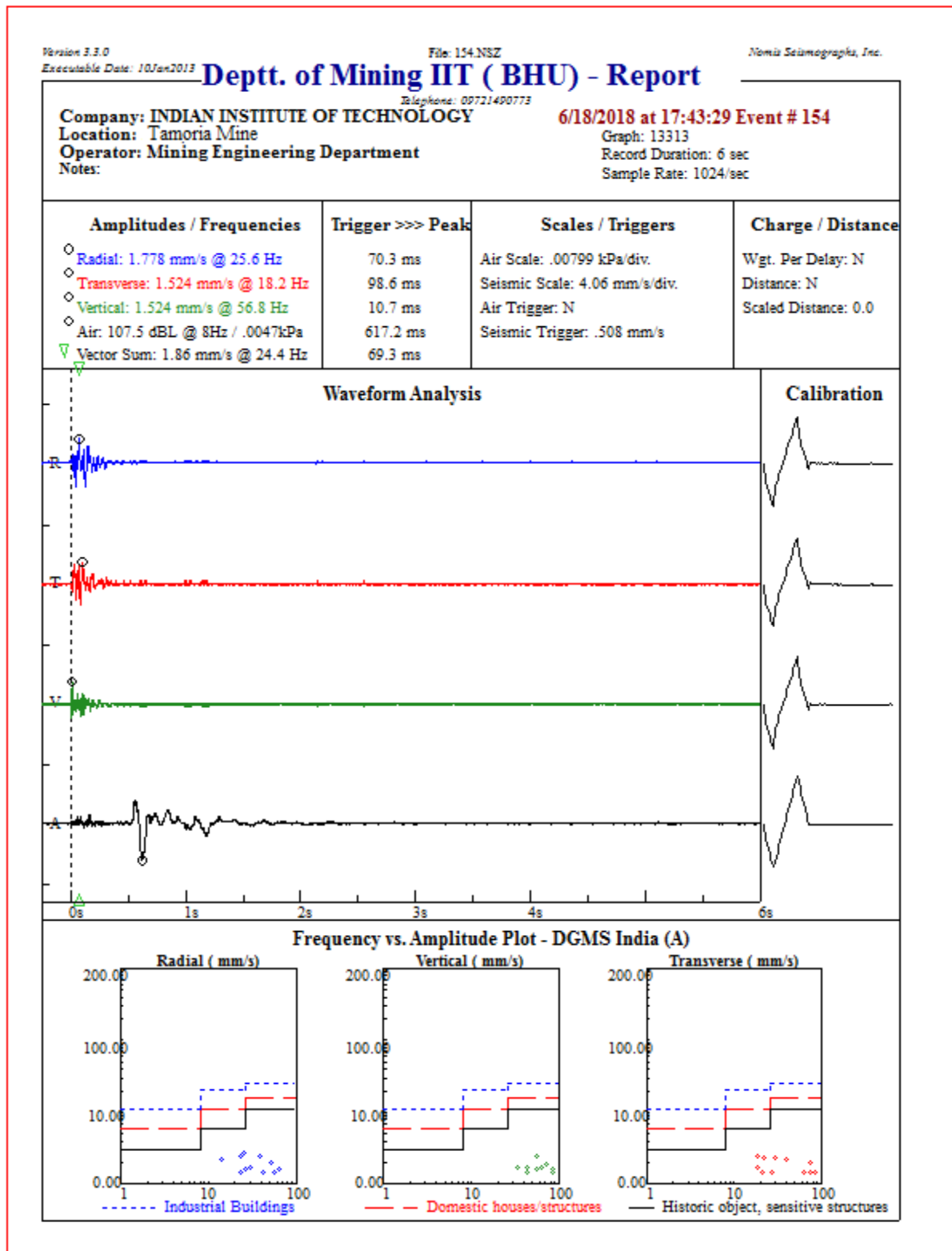


Seismograph Wave Forms 10 m behind the blast (Near Field Region) [Blast Number-2]



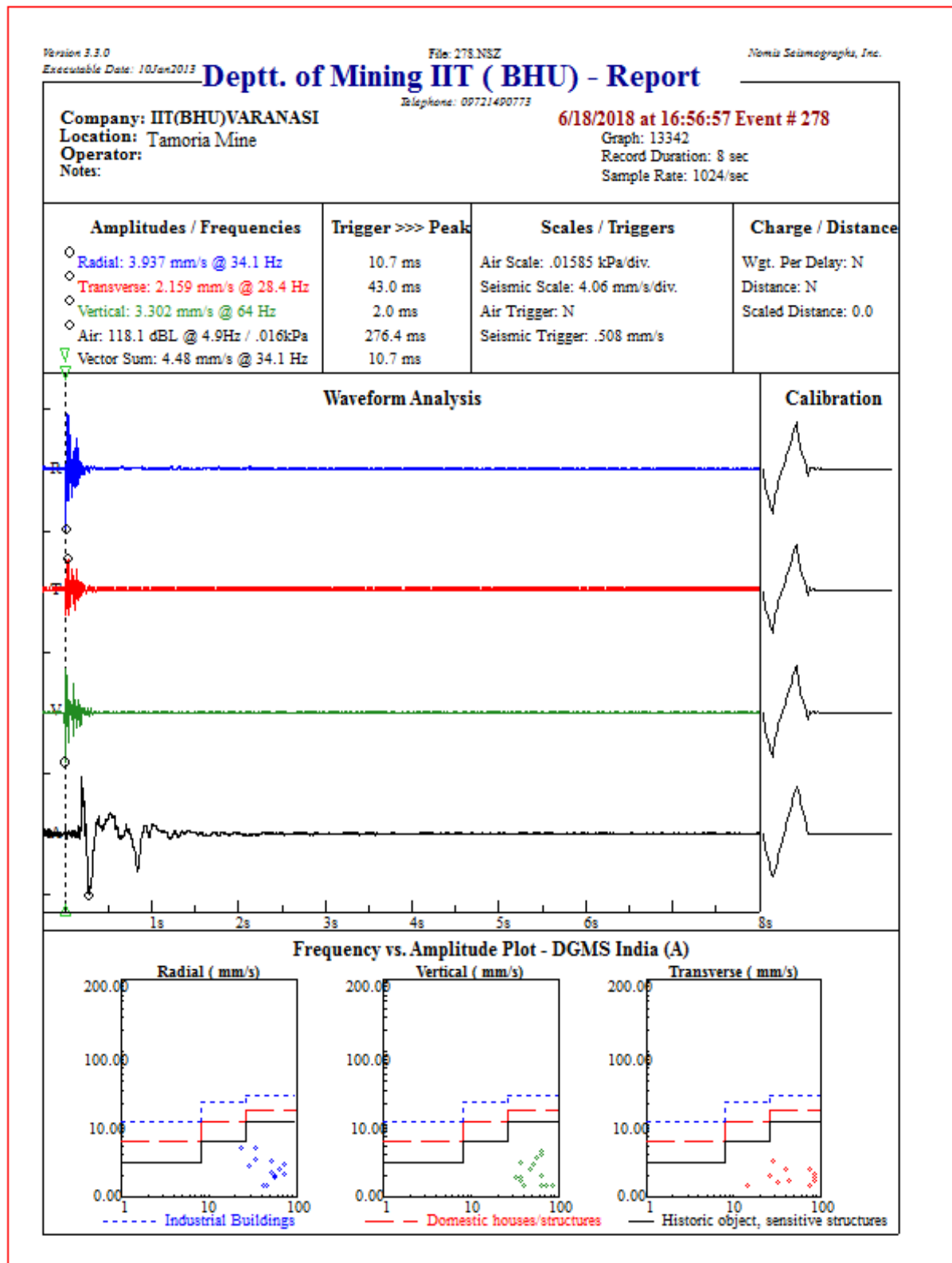


Seismograph Wave Forms almost 350 m near mine office (Far Field Region) [Blast Number-3]



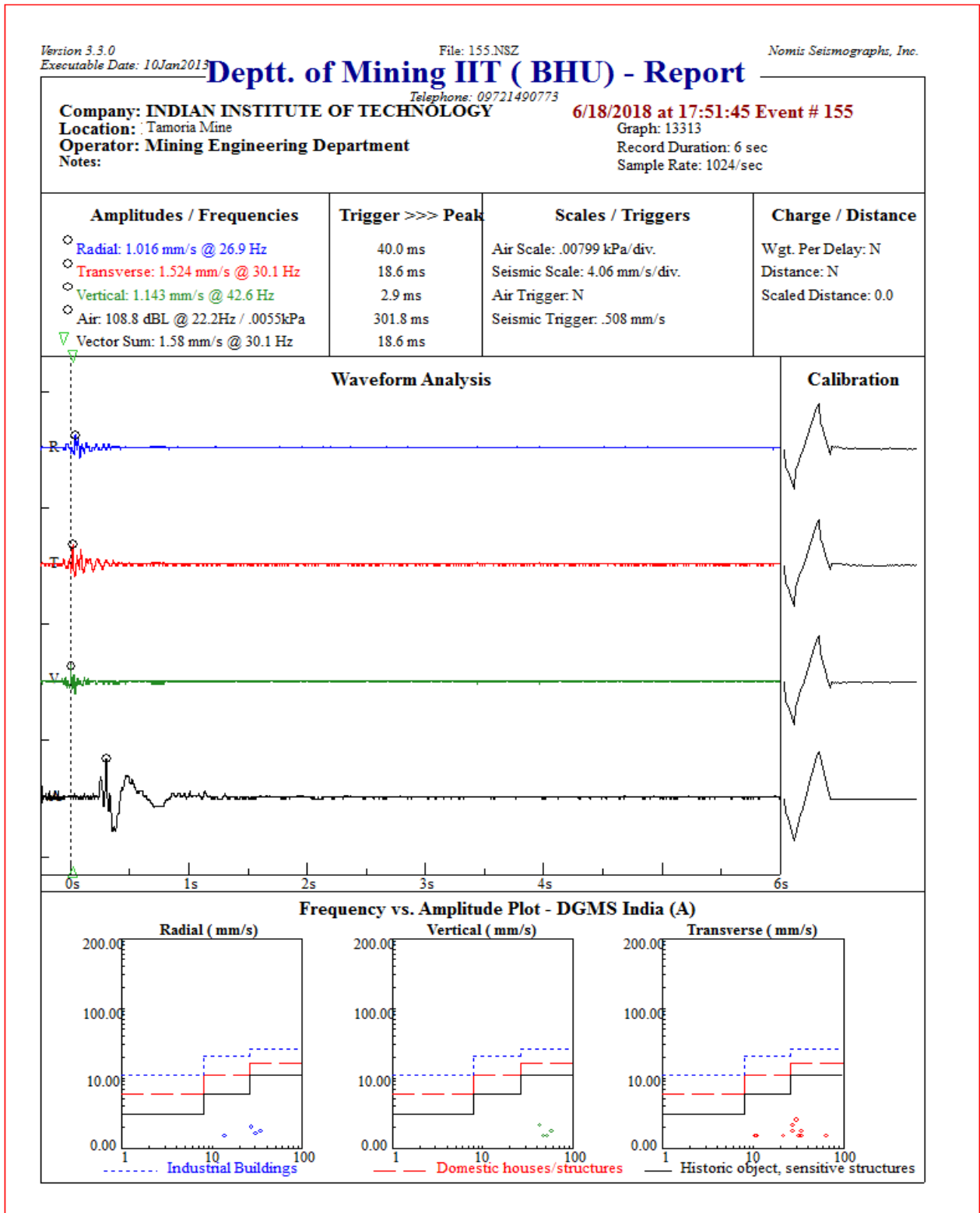


Seismograph Wave Forms 10 m behind the blast (Near Field Region) [Blast Number-3]



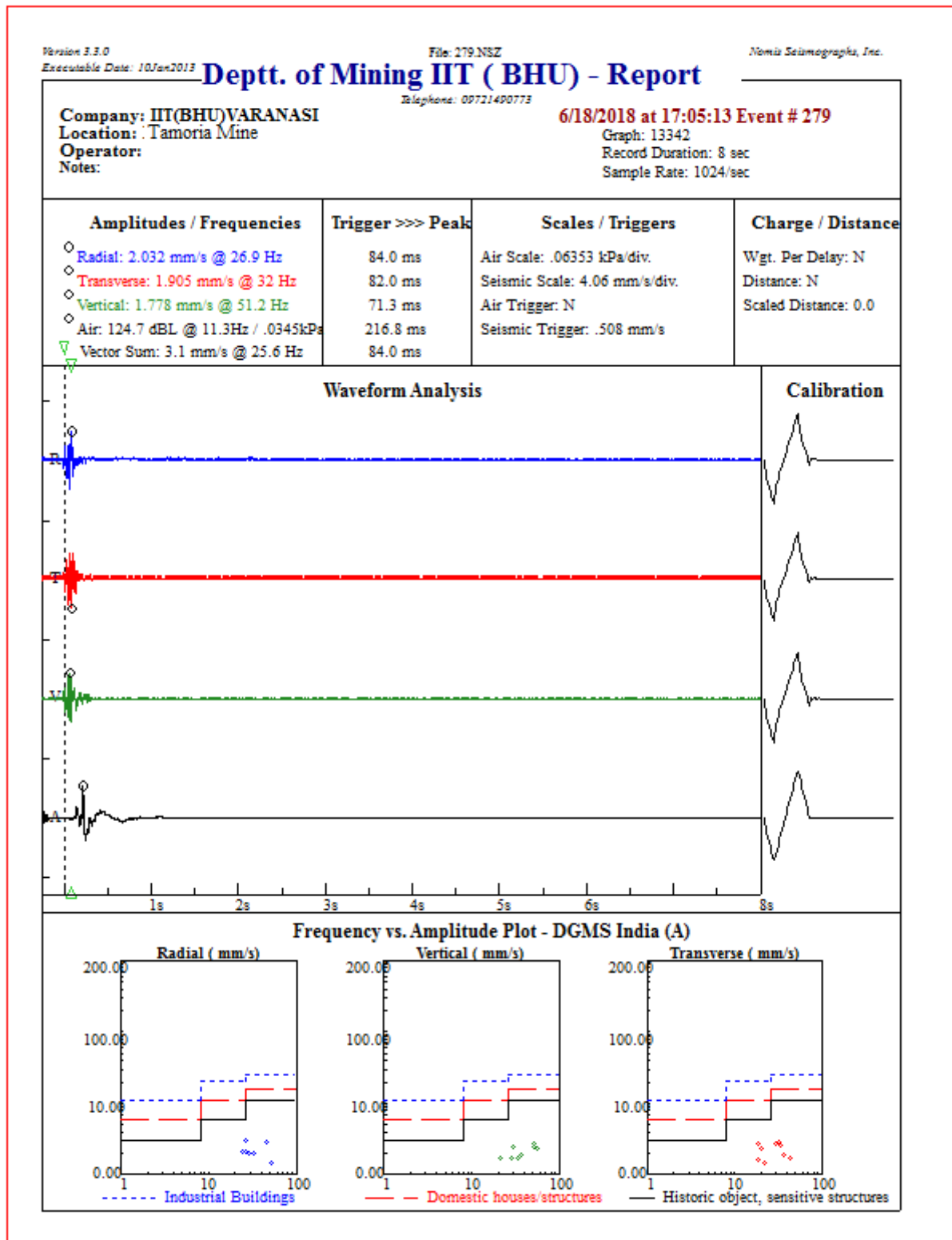


Seismograph Wave Forms almost 350 m near mine office (Far Field Region) [Blast Number-4]





Seismograph Wave Forms 10 m behind the blast (Near Field Region) [Blast Number-4]



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पश्चिमबंग पश्चिम बंगाल WEST BENGAL

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GENERAL POWER OF ATTORNEY

Be it known that I Sanjiv Beri aged 50 years s/o late Sri S.N.Beri resident of 2/H, Alipore Avenue, Kolkata-700027, Managing Director of M/s. S. N. S. (Minerals) Limited incorporated under the provisions of the Companies Act 1956, do hereby appoint, nominate and constitute -

- 1) Shri B.L.Nanda Aged 76 years s/o Late Sri Brindawan Nanda r/o Katni Road, Maihar, M.P., Executive Director of M/s. S.N.S.(Minerals)Limited, Maihar, M.P..
- 2) Shri S.S.Pillai aged 54 years s/o Late K. Shankara Pillai occupation Service - Manager(W) of M/s.S.N.S.(Minerals)Limited, Maihar, M.P. r/o Ward No.13 Rewa Road, Maihar, M.P., Dist. Satna, M.P..
- 3) Shri S.P.Tiwari aged 57 years s/o late Sri R.K.Tiwari occupation service in M/s.S.N. S. (Minerals)Limited, Maihar, M.P. r/o Ward No.13 Rewa Road, Maihar, M.P., Dist. Satna, M.P..

To be my true and lawful attorney in my name and on my behalf to do or execute all or any of the acts or things hereinafter mentioned, jointly or severally, that is to say.

1. To appear and act in all Courts, Revenue or Criminal, Labour, Industrial or before Arbitrator or Conciliator, whether appellate, Revisional or Original in the offices, Sales Tax officer, Central Excise, Office of Colletor, Mines and in any other office of Government.











admissible under Rule 2, duty stamps
under the Letter Stamp Act, 1909
and also to be provided by M. Bengal
Stamp Assessment Act, 1908
Revenue M. No.
Fee paid as under:-

Sanjiv Beri

48d
E71

SPECIMEN FORM FOR TEN FINGERPRINTS



Left Hand	Little Finger	Ring Finger	Middle Finger	Fore Finger	Thumb
					
Right Hand	Thumb	Fore Finger	Middle Finger	Ring Finger	Little Finger
					



Left Hand	Little Finger	Ring Finger	Middle Finger	Fore Finger	Thumb
Right Hand	Thumb	Fore Finger	Middle Finger	Ring Finger	Little Finger



Left Hand	Little Finger	Ring Finger	Middle Finger	Fore Finger	Thumb
Right Hand	Thumb	Fore Finger	Middle Finger	Ring Finger	Little Finger



Left Hand	Little Finger	Ring Finger	Middle Finger	Fore Finger	Thumb
Right Hand	Thumb	Fore Finger	Middle Finger	Ring Finger	Little Finger

2. To sign and execute plaints, petitions or other papers which may be necessary therefore and to verify the same. To compromise or refer to arbitration and to defend suits or other proceedings that may be filed against me and for such purpose to appoint advocate, pleaders etc.
3. To file and recovery back papers, to apply for copies of papers and to inspect records, registers maintained by Govt. and local authorities, courts, including those maintained under any statutory act.
4. To file applications etc. for taking possession, releasing Motor Vehicles registered in my name, and to take possession thereof and documents relating to the vehicles from the courts having jurisdiction for trial.
5. To file execution application for execution of lease deeds, decree obtained by me and to receive decretal amount or vouchers from the Court or Tribunal or any other Govt. offices.
6. To obtain leases of lands, buildings and mines and approval certificates from State Govt.; Union of India and other appropriate authorities in respect of the same.
7. Generally to do all lawful acts necessary for the above mentioned purposes.

Provided that the powers hereby conferred shall not extend to borrowing any money or hypothecating my property or creating any charge therefore transferring any moveable or immovable property in any manner.

And I hereby agree to confirm and ratify all and every act or thing done by my said attorney within the scope of the authority hereby conferred on him and all deeds or documents executed by him in my name or on my behalf shall be binding on me if the same were executed by me.

In witness whereof I have signed this deed on this 28th day of May 2007 in presence of the witnesses.

WITNESS :

- 1) AJOY DEB
5C, ALIPORE ROAD,
KOLKATA - 700 027 Ajoy Deb
- 2) MANAB CHATTERJEE
17/1D, ALIPORE ROAD,
KOLKATA - 700 027. Manab Chatterjee

Sanjay Bera
EXECUTANT.

Drafted by me
K. C. Kanmoker
Advocate
High Court, Calcutta.