

INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION  
MCDR REPORT  
Dehradun regional office

Minecode: 51HPR08003

(i)	Name of the Inspecting Officer	Deepak Sharma
(ii)	Designation	Senior Mining Geologist
(iii)	Accompanying mine official with designation	Mine Official
(iv)	Date of Inspection	11.03.2024
(v)	Prev. Inspection date	-

PART-I: GENERAL INFORMATION

1	(a)	Mine Name	Drang Rock Salt Mine
	(b)	Registration No.	
	(c)	Category	A-Category
	(d)	Type of Working	Opencast
	(e)	Postal Address	
		State	Himachal Pradesh
		District	Mandi
		Village	Drang (Mohal Bhatog)
		Taluka/Tehsil	Sadar
		Post Office	Sadar
		Pin Code	175001
		FAX No.	NA
		E-mail	information@indiasalt.com
		Phone	NA
	(f)	Police Station	Mandi
	(g)	First Opening Date	NA
	(h)	Weekly day of rest	-
2		Address for Correspondence	M/s Hindustan Salts Limited
			Corp Office-G-229, Sitapura Industrial Area
			Jaipur
			Jaipur
			Rajasthan-302022
3	(a)	Lease Number	-
	(b)	Lease Area	8.122 hect
	(c)	Period of Lease	50 Years
4		Mineral Worked	Rock Salt

PART-II: OBSERVATION / COMMENT OF INSPECTING OFFICER

1. Exploration:

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	It was proposed to drill 114 meters exploratory drilling in year 2022-23 & 110 meters exploratory drilling in year 2023-24	Exploratory drilling as per proposal is not done till the date of inspection.	
1b	Exploration over lease area for Geological axis 1 or 2.	Potential mineralized area is explored up to G1 level	Potential mineralized area is explored up to G1 level	As per approved mining plan dated 29.12.2021
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not Mentioned	Nil	No exploration work was carried out in the reporting year.
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Potential mineralized area is explored up to G1 level	Potential mineralized area is explored up to G1 level	
1e	Balance reserves & Resources	121-568000 221-4551000 222-520000	121-566288.169 221-4551000 222-520000	Reserve and resources updated after depletion of production reported from last three years
1f	General remarks of Inspecting officer on geology, exploration etc.	No exploration was carried out in the reporting year.		

2. Development:

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Development was proposed to be done up to level-1 in D1 incline.	Development work was done for insert cutting for U/G development only, development work lagging behind the given proposal.	Development was lagging behind, insert cutting was done for U/G development however the development was lagging behind the proposal with respect to the approved mining plan.
2b	Separate benches in topsoil overburden and	Not proposed	Nil	As underground

	mineral (Rule 15)			development was proposal.
2c	Stripping ratio or ore to OB ratio	1:1.0	-	Development was not as per the approved mining plan.
2d	Quantity of topsoil generation in m <sup>3</sup>	Not proposed	No soil generated in the reporting year	No soil generated in the RY as the working was proposed for U/G development
2e	Quantity of overburden generation in m <sup>3</sup>	2710 cu m	14512 cu m	generated OB and waste is generated due to lagging in the development work.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development was not as per given proposal, no amount of Soil generated in the reporting year, OB and Waste generated is 14512 cu m which is due to slower rate of development of previous years development. Development work in the reporting year is not as per proposal.		

### 3. Exploitation:

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	U/G Level-1 in D1 incline was proposed	Not as per proposal	Development was lagging from the proposal
3b	Quantity of ROM mineral production proposed	7200 Tonnes	1001.951 Tones	ROM generated from the underground development.
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral reject generation and threshold value declared	Not Available	Nil	
3f	Quantity of sub-grade mineral generation	Not Available	Nil	
3g	Grade of sub-grade mineral generation	Not Available	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Use of HEMM is proposed for development, production and transportation of ROM mineral	HEMM is being used for development, production and transportation of ROM mineral	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Proposed	Not as per the proposal drilling is lagging behind	

			from the proposal	
3k	Provision of mining machineries in mineral benches	Proposed	HEMM is being used in mineral benches & U/G development.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	U/G development	Suitable for proposed U/G mining	Proposal in approved mining plan is suitable for U/G working however the development was not carried out as per the proposal.
3m	Total area covered under excavation /pits	1.92	1.37	
3n	Ore to OB ratio for the pit/mine during the year	Not Proposed	Nil	
3o	Total area put in use under different heads at the end of year	3.28	3.00	
3p	Production of ROM mineral during last five-years period, as Applicable	2016-17=5160 2017-18=7434 2018-19=7653 2019-20=5738 2020-21=7078 2021-22=7200 2022-23=7200	2016-17=0.00 2017-18=47.7 2018-19=17.1 2019-20=130.385 2020-21=423.88 2021-22=286.00 2022-23=1001.951	Units are in tonnes
3q	General remarks of inspecting officer on method of mining etc.	Development was lagging behind from the proposal resultant proposed production not achieved.		

#### 4. Solid Waste Management-Dumping:

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Proposed	OB dump was proposed	
4b	Location of topsoil, OB & mineral reject dumps	Proposed	Within the lease area	
4c	Number of Dumps within lease area and outside lease area	Proposed	2 OB& Waste dump	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Proposed	Outside the UPL	
4e	Number of Active & Alive dumps	Proposed	2 OB& Waste dump	
4f	Number of deed dumps	Not Available	Nil	
4g	Number of dumps established	Not proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	proposed	Retaining wall and garland drain prepared all around the OB & Waste dump.	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	Proposed	1 Settling pond	
4k	Specific commends of inspecting officer on waste dump management	Garland drain and retaining walls prepared all around the dump which is of previous year.		

5. Solid Waste Management-Backfilling:

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	Full extraction of mineral is not done yet, mineral continuity still exists	
5b	Area under backfilling of mined out area	Not Proposed	No area fully mature for backfilling	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No top soil generated during the reporting year	Nil	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	No area fully mature enough for reclamation program	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Due to mineral continuity in the ML area backfilling was not proposed. Development work is lagging behind the proposal.		

6. Progressive Mine Closer Plan:

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E(2). Details should be given in the format as given in Annexure-20	Proposed	Submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not Proposed	Nil	
	ii) Afforestation done (ha)	0.028	0.028	
	iii) No. of saplings planted during the year	50	65	

	iv) Cumulative no. of plants	410	100	Due to extreme weather plants could not survived
	v) Any other specific method of rehabilitation	Not Proposed	Nil	
	vi) Cost incurred on watch & care during the year	Not Proposed	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling			
	i) Voids available for backfilling (L*B*D)	Not Proposed	Nil	
	ii) Void filled by waste/tailings	Not Proposed	Nil	
	iii) Afforestation on the backfilling	Not Proposed	Nil	
	iv) Rehabilitation by making water reservoir	Not Proposed	Nil	
	v) Any other specific means	Not Proposed	Nil	
6d	Compliance of Rehabilitation of waste land within lease			
	i) Afforestation	Not Proposed	NIL	
	ii) Area rehabilitation	Not Proposed	Nil	
	iii) Method of rehabilitation	Not Proposed	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Not Proposed	Nil	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	65 no of sapling were planted during the reporting year		

#### 7. Mineral Conservation:

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM dispatch is proposed	ROM is being dispatch for local purchase	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Proposed	Manual sorting	
7c	Different grade of mineral sort out at mine	Proposed	Within mine site	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Rom is stored and sold to local buyers as and when demand generated.		

8. Environment:

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	Nil	
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	No area mature enough for the process	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposed	As per approved mining plan	
8g	Survival rate	70%	50-65%	Due to extreme weather conditions
8h	Water sprinkling on roads to control airborne dust	Proposed	By using water tanker and sprinklers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	No soil generated during the reporting year as development was proposed to be done for U/G		

9. Compliance of Rule 45:

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	AR and MR submitted	AR and MR submitted online
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Submitted	Mining Engineer- Dipesh Singh Geologist-Jessu Amala Angelo
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Submitted	Lease area (surface area) utilisation as at the end of year (hectares): Under forest Outside forest Total (i) Already exploited and

			<p>abandoned by opencast (O-C) mining 0.000 0.000 0.000</p> <p>(ii) Covered under current (O-C) Workings 0.000 0.174 0.174</p> <p>(iii) Reclaimed-rehabilitated 0.000 0.000 0.000</p> <p>(iv) Used for waste disposal 0.000 0.130 0.130</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.000 0.000</p> <p>(vi) Used for any other purpose (specify) Plantation 0.000 0.028 0.028</p> <p>(vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000</p> <p>13. Ownership-exploiting Agency of the mine: (Public Sector-Private Sector-Joint Sector) Public Sector</p>
9d	Scrutiny of Annual return on afforestation	Submitted	<p>Trees planted- survival rate</p> <p>Description Within lease area Outside lease area</p> <p>i) Number of trees planted during the year 50 15</p> <p>ii) Survival rate in percentage 95 95</p> <p>iii) Total no. of trees at the end of the year 410 90</p>
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Submitted	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Submitted	<p>Production and Stocks of ROM ore at Mine-head</p> <p>Category Opening stock Production Closing stock</p> <p>(a) Open Cast workings 0.000 0.000 0.000 (b) Underground Workings 0.000 1001.951 0.000 (c) Dump workings 0.000 0.000 0.000</p>
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Submitted	Ex Mine Price-4839.07 INR
9i	Scrutiny of Annual return on Fixed assets	Submitted	Value of Fixed Assets* (₹ 7834723)
9k	Scrutiny of Annual return on mining Machineries	Submitted	<p>Type of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc.</p> <p>Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify)Used in opencast Underground (specify)</p> <p>AIR COMPRESSOR 10.000 CUM/MN 1 Electrical</p> <p>Opencast GENERATOR (DIESEL) 8.000 KWH 1 Non Electrical</p> <p>Opencast BLAST HOLE DRILL (ELEC.) 6.000 MM 2 Non Electrical</p> <p>Opencast SHOVEL (HYDRAULIC) 0.800 CUM 1 Non Electrical</p> <p>Opencast TIPPER 32.000 CUM</p>

			1 Non Electrical Opencast
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