

MCDR INSPECTION REPORT

Date of Inspection: 28/08/2024 & 30/01/2025

General

S. N.	Particulars	Details
1	Name of the Mine	Mahagiri Chromite Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	ML Area- 73.777 Ha Forest Area- 73.777 Ha Non Forest -Nil
3	Mine code	11ORI19017
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4200/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Indian Metals & Ferro Alloys Limited IMFA Building, At- Bomikhal, Po- Rasulgarh, BBSR, Dist.- Khurda, Pin- 751010, Phone- 06742580100, email- minesplanningcell@imfa.in and Fax- 06742580020
6	Village	Kaliapani
7	Taluka/Mandal	Sukinda
8	District	Jajpur
9	Pincode	755047
10	State	Odisha
11	Post office	Kaliapani
12	Nearest police station	Kaliapani
13	Nearest Railway station	Tomka
14	Date of Grant of Mining Lease	18/06/2005
15	Date of Execution	20/09/2005
16	Date of opening of Mine	16.01.2006 (O/C) & 02.01.2009 (U/G)
17	Date of first Renewal, if applicable and its period & expiry	19.09.2035 deemed to be extended upto 19.09.2055 as per MMDR amendment Act 2015.
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri C R Ray IMFA Building At/Po - Bomikhal, Rasulgarh,BBSR. District: Khurda, State: Odisha, Pin code: 751010 Phone: (0674) 2580100/125, Fax: (0674) 2580020 Email id: crray@imfa.in Date of Appointment-01.04.2013
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Sandeep Bapuraojee Narade, Mahagiri Mines(Chromite) Mob- 8118095950 At/Po- Kaliapani, Dist- Jajpur Pin - 755028, Odisha, Email: sandeepnarade@imfa.in Date of appointment : 1.07.2023
22	Name of the Mines Manager with Address, phone,	Sri R.R. Sharma,

	email, fax number and date of appointment in mines	Kaliapani, Jajpur, 755047 Mob. -9937299363, Email: rajeshsharma@imfa.in Date of appointment: - 01.04.2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri R.R. Sharma, Kaliapani, Jajpur, 755047 Mob. -9937299363, Email: rajeshsharma@imfa.in Date of appointment: - 01.04.2022
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Khirod. Kumar Mohapatra, Kaliapani, Jajpur, 755047 Mob.9777444198, Email: khirodmohapatra@imfa.in Date of appointment: -02.03.2015
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	<u>Mining Engineer:</u> Sri R.R. Sharma, Kaliapani, Jajpur, 755047 Mob. -9937299363, Email: rajeshsharma@imfa.in Date of appointment: - 01.04.2022 <u>Geologist:</u> Sri Khirod. Kumar Mohapatra, Kaliapani, Jajpur, 755047 Mob.9777444198, Email: khirodmohapatra@imfa.in Date of appointment: -02.03.2015
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modification of Review of Mining Plan dated 11.08.2021 Period 2021-22 to 2024-25. With following Specific Conditions I. The Modification of Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction. II. The proposals shown on the plates and/or given in the document is based on the lease map/sketch submitted by the applicant/lessee and is applicable from the date of approval. III. It is clarified that the approval of aforesaid Modification of Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Act, 1957, or the Mineral Concession

		<p>Rule, 2016 and any other laws including Forest(Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.</p> <p>IV. Indian Bureau of Mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant/lessee.</p> <p>V. At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.</p> <p>VI. If this approval conflicts with any other law or court order / Direction under any statute, it shall be revoked immediately.</p> <p>VII. Validity of this document shall expire on 31.03.2025.</p> <p>VIII. Next financial assurance shall be due for submission on 31.03.2025.</p>
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	18.08.2021
28	Mineral(s) granted in lease and proved for mining	Chromite
29	Method of Mining(Opencast, Underground)	Opencast & Underground
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	2 holes/185m	55 holes/3076.50m	No backlog i.r.o. exploration during the reporting year.
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1	
1c	Exploration Agency & Expenditure in lakh Rupees	NA	Maheswari Mining (P) Ltd,	

	during the year		& expenditure: Rs/- 22318567	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire mineralized area has been covered under G1 level of exploration. However further depth may be delineated in future.
1e	Balance reserves as per latest approved document	102.67 Lakh Tonne as on 1.04.2021	163.21 Lakh Tonne as on 1.04.2024	As on 01.04.2024
1f	General remarks of inspecting officer on geology, exploration etc.	Lessee has carried out proposed exploration and some additional exploration also has carried out in the reporting year. Entire mineralized area has been covered under G1 level of exploration. However further depth may be delineated in future by further exploration.		

Development

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	Underground development of 2500m	Underground development of 2886.10m	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	Underground mining operation was carried out during the reporting year.
2c	Stripping ratio or ore to OB ratio	NA	NA	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	20000m3 from Underground	22875. 791 m3 from Underground.	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	Lessee has carried out the development and production well within the proposed area by means of underground mining operation during the reporting year.		

Exploitation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	Stope block-10S4,9S6,8P6,8P7,8S7, AP2, AS4, AS3, AP1, AP17, AP16, AS2, AP15, AP14,AP9,AP10,AP13,AS1,AS16,AS10,AP12	Stope block-AS2, AP13,8P6, AS1, AP15,10P4, AS16, AP14,8P7, AP10, AP12, AP9	Underground mining operation was carried out during the reporting year.
3b	Quantity of ROM mineral	450000.000 MT	349330.660 MT	

	production proposed			
3c	Recovery of salable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Nil	Nil	Underground mining operation was carried out during the reporting year.
3k	Provision of mining machineries in mineral benches	Nil	Nil	Underground mining operation was carried out during the reporting year as per the technical study report.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Nil	Nil	Underground mining operation was carried out during the reporting year as per the technical study report.
3m	Total area covered under excavation/pits	Nil	Nil	Underground mining operation was carried out during the reporting year as per the technical study report.
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	Underground mining operation was carried out during the reporting year as per the technical study report.
3o	Total area put in use under different heads at the end of	Land use Area in Ha	Land use Area in Ha	

	year	1.Area under mining-9.60Ha 2.Reclaimed/Rehabilitated-7.84Ha/2.29Ha 3.Used for waste Disposal- 5.09 4.Occupaied by Infrastructure-9.837Ha	1.Area under mining-9.60Ha 2.Reclaimed/Rehabilitated-7.84Ha/2.39Ha 3.Used for waste Disposal- 5.09 4.Occupaied by infrastructure - 12.686 Ha Mineral storage-20.496 Ha	
3p	Production of ROM mineral during last five-year period, as applicable 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23	2019-20 = 262000.000MT 2020-21 = 300000.000 MT 2021-22 = 300000.000 MT 2022-23 = 300000.000 MT 2023-24 = 450000.000 MT	2019-20 =199178.598 MT 2020-21 =240899.685 MT 2021-22= 293954.836 MT 2022-23 =280456.330 MT 2023-24 =349330.660 MT	
3q	General remarks of inspecting officer on method of	Lessee has carried out the development and production well within the proposed area. Underground mining operation was carried out during the reporting year as per the technical study report.		

Solid Waste Management-Dumping

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for Over-burden are being practiced and mineral rejects are being blended with high grade ore to make it suitable grade based on the requirement of Captive plant.	
4b	Location of topsoil, OB & mineral reject dumps	Topsoil-No Overburden-E/W 3922E to 3430E and 1454N to 1134 N Mineral reject-NA	Topsoil-No Overburden-E/W 3922E to 3430E and 1454N to 1134 N	
4c	Number of dumps within lease area and outside lease area	Within lease-One no Outside-Nil	Within lease-One no Outside-Nil	

4d	Location of dumps w.r.t. ultimate pit limit	Outside UPL	Outside UPL	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	01	01	
4g	Number of dumps stabilized	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall and garland drains are already exist around the waste dump.	Retaining wall and garland drains are already exist around the waste dump.	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall and garland drains are already exist around the waste dump.	Retaining wall and garland drains are already exist around the waste dump.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	Underground mining operation was carried out during the reporting year as per the technical study report. Only partially back filling of opencast mining pit has been carried out as per the approved proposal during the reporting year and further some quantity of waste material also used for back filling of stopped out blocks as per the geotechnical study report.		

Solid Waste Management-Backfilling

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	No such proposal during the reporting year.
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	Already 2.39 Ha area have been reclaimed and rehabilitated within the ML area.
5e	General remarks of inspecting officer on backfilling, reclamation etc	There was no such backfilling of mined out pit during the reporting year. However, out of the 9.60 ha mined out pit area, about 2.39 2.39 Ha area have been reclaimed and rehabilitated within the ML area.		

Progressive Mine Closure Plan

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	As per Rule 26(2) Annual PMCP report to	As per Rule 26(2) Annual PMCP report has been submitted	

		be submitted before 1st day of July of every year.	during the stipulated time.	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) No such Proposal ii) No such Proposal iii) No such Proposal iv) No such Proposal v) No such Proposal vi) No such Proposal	i) Nil ii) Nil iii) Nil iv) Nil v) Nil vi) Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) Nil ii) Nil iii) Nil iv) Nil v) Nil	i) Nil ii) Nil iii) Nil iv) Nil v) Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 250 no of saplings ii) 0.10 Ha. iii) Plantation	i) 260 no of saplings ii) 0.10 Ha. iii) Plantation with 95% survival rate	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring in Core zone and buffer zone will be as per MOEFCC and SPCB guidelines.	Environmental monitoring in Core zone and buffer zone is carried out as per MOEFCC and SPCB guidelines.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out environmental monitoring as per the proposal during the reporting year and the lessee has planted about 260 no of saplings with a survival rate of about 95% carried out within the lease area.		

Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	The ore produced from mine is being consumed at our captive plant of the lessee; i): + 52 % Cr ₂ O ₃ , ii): +40 to -52% Cr ₂ O ₃ , iii): -40% Cr ₂ O ₃ were proposed.	The ore produced from mine is being consumed at our captive plant of the lessee; i): + 52 % Cr ₂ O ₃ , ii): +40 to -52% Cr ₂ O ₃ , iii): -40% Cr ₂ O ₃ were carried out.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines	The ore produced from mine is being consumed at our captive plant of the lessee; i): + 52 % Cr ₂ O ₃ , ii): +40 to -52% Cr ₂ O ₃ , iii): -40% Cr ₂ O ₃ were proposed.	The ore produced from mine is being consumed at our captive plant of the lessee; i): + 52 % Cr ₂ O ₃ , ii): +40 to -52% Cr ₂ O ₃ , iii): -40% Cr ₂ O ₃ were carried out.	
7d	Any beneficiation process at mines	Nil	Nil	No Such proposal during the reporting year.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The ore produced from mine is being consumed at our captive plant of the lessee; i): + 52 % Cr ₂ O ₃ , ii): +40 to -52% Cr ₂ O ₃ , iii): -40% Cr ₂ O ₃ were carried out. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the reporting year.		

Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	Nil	Nil	No such proposal during the reporting year.
8b	Concurrent use or storage of topsoil	Nil	Nil	No such proposal during the reporting year.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps for overburden and mineral reject stacks, waste rocks are proposed.	Separate dumps for Over-burden and mineral stacks and other waste rocks are being practiced.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands	No such proposal	Nil	

	affected by mining operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional Plantation done	250 No's of tree to be planted within the lease area over 0.10 Ha.	260 no's of tree has been planted within the lease area over 0.10 Ha. with 95% survival rate.	
8g	Survival rate	250 No's of tree to be planted within the lease area over 0.10 Ha.	260 no's of tree has been planted within the lease area over 0.10 Ha. with 95% survival rate.	
8h	Water sprinkling on roads to control airborne dust	Regular sprinkling of water on Haul roads and transport roads using Water tanker to suppress the dust.	Regular sprinkling of water on Haul roads and transport roads using mobile water tanker to suppress the dust are in practice.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee has planted 260 no of saplings over 0.1 Ha area with a survival rate of 95% within the lease area. Water sprinkling by mobile water tanker over haul roads to control the airborne dust and to minimize the fugitive dust emission. This sustains the aesthetic beauty of the mine area.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to July 2024. A.R. Submitted up to – 2022-23		
S.N.	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager- Sri R.R. Sharma, Kaliapani, Jajpur, 755047 Mob. -9937299363, Email: rajeshsharma@imfa.in Date of appointment: - 01.04.2022 Geologist-Sri Khirod. Kumar Mohapatra, Kaliapani, Jajpur, 755047 Mob.9777444198, Email: khirodmohapatra@imfa.in	Mines Manager- Sri R.R. Sharma, Kaliapani, Jajpur, 755047 Mob. - 9937299363, Email: rajeshsharma@imfa.in Date of appointment: - 01.04.2022 Geologist-Sri Khirod. Kumar Mohapatra, Kaliapani, Jajpur, 755047 Mob.9777444198, Email: khirodmohapatra@imfa.in	

		Date of appointment: - 02.03.2015 Eng- Sri R.R. Sharma, Kaliapani, Jajpur, 755047 Mob. -9937299363, Email: rajeshsharma@imfa.in Date of appointment: - 01.04.2022	@imfa.in Date of appointment: - 02.03.2015 Eng- Sri R.R. Sharma, Kaliapani, Jajpur, 755047 Mob. - 9937299363, Email: rajeshsharma@imfa.in Date of appointment: - 01.04.2022	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use Area in Ha 1.Area under mining- 9.60Ha 2.Reclaimed/Rehabilitated- 7.84Ha/2.39Ha 3.Used for waste Disposal- 5.09 4.Occupied by infrastructure - 12.686 Ha Mineral storage- 20.496 Ha	Land use Area in Ha 1.Area under mining- 9.60Ha 2.Reclaimed/Rehabilitated- 7.84Ha/2.39Ha 3.Used for waste Disposal- 5.09 4.Occupied by infrastructure - 12.686 Ha Mineral storage- 20.496 Ha	
9d	Scrutiny of Annual return on afforestation	260 no's of tree has been planted within the lease area over 0.10 Ha. with 95% survival rate.	260 no's of tree has been planted within the lease area over 0.10 Ha. with 95% survival rate.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Stock ROM as on 31.03.2024- 10790.100 MT Stock of graded Ore as on 31.03.2024- 19911.294 MT	Stock ROM as on 31.03.2024- 10790.100 MT Stock of graded Ore as on 31.03.2024- 19911.294 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production: Rs. 1523.04/- furnished in Annual return.	Cost of production: Rs. 1523.04/- furnished in Annual return.	

9i	Scrutiny of Annual return on fixed assets	Rs-317108311/ furnished in annual return of the reporting year.	Rs-317108311/ furnished in annual return of the reporting year.		
9k	Scrutiny of Annual return on mining machineries	FRONT END LOADER 3.500 CUM 1 Non Electrical Opencast FRONT END LOADER 2.100 CUM 1 Non Electrical Opencast FRONT END LOADER 1.900 CUM 3 Non Electrical Opencast TIPPER 20.000 CUM 3 Non Electrical Opencast TIPPER 18.000 CUM 3 Non Electrical Opencast TIPPER 10.500 CUM 1 Non Electrical Opencast WATER TANKER 12000.000 LITRE 1 Non Electrical Opencast LOAD HAUL DUMPER 2.000 CUM 2 Non Electrical Underground LOAD HAUL DUMPER 4.000 CUM 2 Non Electrical Underground LOAD HAUL DUMPER 3.000 CUM 2 Non Electrical Underground MINE CARS 15.000 TONNE 2 Non Electrical Underground MINE CARS 25.000 TONNE 3 Non Electrical Underground MINE CARS 20.000 TONNE 3 Non Electrical Underground MINE CARS 30.000 TONNE 1 Non Electrical Underground EXPLOSIVE VAN 2.500 TONNE 1 Non Electrical Opencast CRUSHER 150.000 T/H 1 Electrical Opencast AIR COMPRESSOR 29.020 CUM/MN 1 Electrical Opencast AIR COMPRESSOR 33.980 CUM/MN 1 Electrical Opencast AIR COMPRESSOR 19.100 CUM/MN 1 Electrical Opencast ROCK DRILL (ELEC.) 45.000 MM 2 Electrical Underground ROCK DRILL (ELEC.) 35.000 MM 2 Electrical Underground ROCK DRILL (ELEC.) 57.000 MM 2 Electrical Underground CRANE 10.000 TONNE 1 Electrical Opencast	FRONT END LOADER 3.500 CUM 1 Non Electrical Opencast FRONT END LOADER 2.100 CUM 1 Non Electrical Opencast FRONT END LOADER 1.900 CUM 3 Non Electrical Opencast TIPPER 20.000 CUM 3 Non Electrical Opencast TIPPER 18.000 CUM 3 Non Electrical Opencast TIPPER 10.500 CUM 1 Non Electrical Opencast WATER TANKER 12000.000 LITRE 1 Non Electrical Opencast LOAD HAUL DUMPER 2.000 CUM 2 Non Electrical Opencast LOAD HAUL DUMPER 4.000 CUM 2 Non Electrical Opencast LOAD HAUL DUMPER 3.000 CUM 2 Non Electrical Underground MINE CARS 15.000 TONNE 2 Non Electrical Underground MINE CARS 25.000 TONNE 3 Non Electrical Underground MINE CARS 20.000 TONNE 3 Non Electrical Underground MINE CARS 30.000 TONNE 1 Non Electrical Underground EXPLOSIVE VAN 2.500 TONNE 1 Non Electrical Opencast CRUSHER 150.000 T/H 1 Electrical Opencast AIR COMPRESSOR 29.020 CUM/MN 1 Electrical Opencast AIR COMPRESSOR 33.980 CUM/MN 1 Electrical Opencast AIR COMPRESSOR 19.100 CUM/MN 1 Electrical Opencast ROCK DRILL (ELEC.) 45.000 MM 2 Electrical Underground ROCK DRILL (ELEC.) 35.000 MM 2 Electrical Underground ROCK DRILL (ELEC.) 57.000 MM 2 Electrical Underground CRANE 10.000 TONNE 1 Electrical Opencast		

		WINDING ENGINE (ELEC.) 3500.000 KG 1 Electrical Opencast CRANE 5.000 TONNE 2 Electrical Opencast	45.000 MM 2 Electrical Underground ROCK DRILL (ELEC.) 35.000 MM 2 Electrical Underground ROCK DRILL (ELEC.) 57.000 MM 2 Electrical Underground CRANE 10.000 TONNE 1 Electrical Opencast WINDING ENGINE (ELEC.) 3500.000 KG 1 Electrical Opencast CRANE 5.000 TONNE 2 Electrical Opencast	
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