



RMD MONTHLY INFORMATICS



August-2019



PPC
RMD KOLKATA



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Barsua Iron Mine
Raw Materials Division
Steel Authority Of India Limited
P.O. Tensa
Dist Sundergarh 770 042
Orissa
India



By Royal Charter

Holds Certificate No:

FM 713195

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

Opencast Mining, Processing and Dispatch of Iron Ore Lumps and Fines.

For and on behalf of BSI:

Chris Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2019-08-23
Latest Revision Date: 2019-08-23

Effective Date: 2019-08-23
Expiry Date: 2022-08-22

Page: 1 of 1



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Further certifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization.
This certificate is valid only if provided original copies are in complete set.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP, Tel: +44 345 080 9000
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A Member of the BSI Group of Companies.



Certificate of Registration

OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM - ISO 45001:2018

This is to certify that:

Barsua Iron Mine
Raw Materials Division
Steel Authority Of India Limited
P.O. Tensa
Dist Sundergarh 770 042
Orissa
India



By Royal Charter

Holds Certificate No:

OHS 713196

and operates an Occupational Health and Safety Management System which complies with the requirements of ISO 45001:2018 for the following scope:

Opencast Mining, Processing and Dispatch of Iron Ore Lumps and Fines.

For and on behalf of BSI:

Chris Cheung, Head of Compliance & Risk - Asia Pacific

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Barsua Iron Ore Mines Certified with QMS ISO 9001:2015 & OHSMS ISO 45001:2018 in August-19

CONTENTS

<u>SERIAL NO.</u>	<u>SUBJECT</u>	<u>PAGE NO.</u>
1	RAKE DESPATCH	1
2	IRON ORE MINES - PRODUCTION & DESPATCH	2-3
3	EXCAVATION	4
4	MONTHWISE PERFORMANCES	5-7
5	DESPATCH DISTRIBUTION	8-13
6	FLUX MINES OPERATION	14-15
7	QUALITY ANALYSED AT PLANT	16-27
8	EQUIPMENT AVAILABILITY & UTILISATION	28-33
9	TECHNO ECONOMIC PERFORMANCE	34-36
10	MINE LEASE RENEWAL	37-41
11	MANPOWER STATISTICS	42
12	ACCIDENT STATISTICS	43
13	CUSTOMER INTERFACE	44-46
14	FREIGHT	47

Performance Highlights

August-2019

Production & Despatch

- Bolani Ores Mines and RMD mines in total achieved highest ever Production and Despatch in any month of August since inception.
- Kuteshwar Limestone Mines has achieved best ever production (1. 14Lakh T) and Despatch (1. 19Lakh T) in any month of August since inception.

Others:

- Barsua Iron Mines certified by BSI for Quality Management System (ISO9001:2015) and for Occupational health& Safety Management System (ISO45001:2018).
- Gua Ores Mines has installed and commissioned successfully the SCADA display and wireless communication for monitoring of Ore dumping and processing plant. Incoming 33KV line circuit breaker at Substation can also be switched off remotely by installed system.
- Bolani has successfully modified in-house the Shovel No-25 (BE-1000 model) with rock breaker arrangement to increase the lump production.

Rake Despatch Performance

Unit: Nos of Rake

MINES	FOR THE MONTH OF - Aug- 19					19-20 TILL THE MONTH OF Aug- 19				
	CBT	ACT	%FF	Aug- 18	GRTH %	CBT	ACT	%FF	CPLY	GRTH %
KIRIBURU	120	89	74	80	11	600	499	83	429	16
MEGHATUBURU	120	85	71	84	1	600	483	81	420	15
BOLANI	155	139	90	115	21	775	704	91	660	7
BARSUA	45	39	87	44	-11	225	188	84	135	39
TALDIH	25	11	44	3	267	110	69	63	71	-3
KALTA	50	10	20	33	-70	250	172	69	170	1
GUA	100	90	90	94	-4	500	454	91	459	-1
CHIRIA	15	9	60	12	-25	90	73	81	66	11
RMD TOTAL	630	472	75	465	2	3150	2642	84	2410	10

PLANTS	COMM	FOR THE MONTH OF - Aug- 19					19-20 TILL THE MONTH OF Aug- 19				
		CBT	ACT	%FF	Aug- 18	GRTH %	CBT	ACT	%FF	CPLY	GRTH %
BSL	LUMP		49.0		58.7	-17		317.3	0.0	267.2	19
	FINES		90.0		98.3	-8		514.7	0.0	470.8	9
	TOTAL	189	139.0	74	157.0	-11	945	832.0	88	738.0	13
DSP	LUMP		36.7		25.9	42		168.1	0	168.0	0
	FINES		56.3		71.1	-21		305.9	0	344.0	-11
	TOTAL	111	93.0	84	97.0	-4	555	474.0	85	512.0	-7
RSP	LUMP		42.0		55.0	-24		282.2	0	265.8	6
	FINES		66.0		65.0	2		448.8	0	390.2	15
	TOTAL	156	108.0	69	120.0	-10	780	731.0	94	656.0	11
ISP	LUMP		30.7		26.6	15		130.0	0	150.7	-14
	FINES		84.3		62.4	35		379.0	0	347.3	9
	TOTAL	144	115.0	80	89.0	29	720	509.0	71	498.0	2
BSP	LUMP					0			0		0
	FINES		17.0		2.0	750		96.0	0	6.0	1500
	TOTAL	30	17.0	57	2.0	750	150	96.0	64	6.0	1500
SAIL TOTAL	LUMP		158.4		166.2	-5	0	897.6	0	851.7	5
	FINES		313.6		298.8	5		1744.4		1558.3	12
	TOTAL	630	472.0	75	465.0	2	3150	2642.0	84	2410.0	10

IRON ORE MINES OPERATIONS (FINISHED PRODUCT)

August 2019

UNIT 000 TONNES

PRODUCTION

MINE & RATED CAP	COMM.	PLAN	FOR MONTH				GRTH % OVER LSTYR	TILL THE MONTH				GRTH % OVER LSTYR	CAP UTLN %
		2019-20	TGT	ACT	%FF	LAST YR Aug 2018		TGT	ACT	%FF	LAST YR		
KIRIBURU 5500	L	1150	85	97	113.7	91	6.7	480	468	97.6	410	14.2	
	F	3350	235	224	95.3	224	0.1	1395	1172	84	1204	-2.7	
	T	4500	320	320	100.2	314	2.0	1875	1640	87.5	1615	1.6	72
MEGHAHATUBURU 5000	L	875	65	84	129.8	137	-38.6	360	381	106	461	-17.3	
	F	2625	190	200	105.0	135	47.7	1065	1154	108	941	22.7	
	T	3500	255	284	111.4	272	4.2	1425	1536	108	1402	9.6	74
BOLANI 6500	L	2586	215	196	91.4	188	4.4	1065	1033	97	845	22.3	
	F	3914	320	294	91.9	219	34.2	1585	1739	110	1257	38.3	
	T	6500	535	490	91.7	407	20.4	2650	2772	105	2102	31.9	102
BARSUA 2500	L	803	75	45	59.4	47	-5.5	345	252	73	168	50.4	
	F	1697	150	86	57.2	99	-13.6	710	372	52.4	380	-2.2	
	T	2500	225	130	58.0	147	-11.0	1055	624	59.1	548	13.8	60
TALDIH 1000	L	332	28	10	34.1	24	-60.8	138	105	76.3	160	-34.0	
	F	618	52	30	58.3	1	4468.2	258	142	54.9	95	49.0	
	T	950	80	40	49.8	25	59.6	396	247	62.4	255	-3.0	59
KALTA 2500	L	1229	95	24	25.0	79	-69.9	505	297	58.9	344	-13.5	
	F	1071	80	3	3.8	52	-94.2	440	232	52.7	275	-15.5	
	T	2300	175	27	15.3	131	-79.6	945	529	56	618	-14.4	51
GUA 4000	L	1130	85	86	101.5	85	1.7	460	436	94.8	463	-5.8	
	F	2870	220	237	107.5	215	9.9	1180	1077	91.3	1167	-7.8	
	T	4000	305	323	105.8	300	7.6	1640	1513	92.2	1630	-7.2	91
MANOHARPUR 750	L	375	32	22	68.0	32	-31.1	158	140	88.5	147	-4.8	
	F	375	32	43	135.4	19	125.2	158	154	97.4	104	47.7	
	T	750	64	65	101.7	51	28.0	316	294	93	251	17.0	45
TOTAL 27750	L	8480	680	563	82.8	683	-17.5	3511	3113	88.7	2996	3.9	
	F	16520	1279	1117	87.3	965	15.7	6791	6042	89	5424	11.4	
	T	25000	1959	1680	85.7	1648	1.9	10302	9155	88.9	8420	8.7	79

IRON ORE MINES OPERATIONS (FINISHED PRODUCT)

August 2019

UNIT 000 TONNES

DESPATCHES

MINE	COMM.	PLAN	FOR THE MONTH				GRTH % OVER LSTYR	TILL THE MONTH				GRTH % OVER LSTYR	STOCKS AT MINES		
		2019-20	TGT	ACT	%FF	LAST YR Aug 2018		TGT	ACT	%FF	LAST YR		YEAR BEGN.	MTH BEGN.	MTH END
		L	1150	90	97	108.0	71	37.2	480	477	99.5	405	17.9	15	7
KIRIBURU	F	3350	255	225	88.2	232	-3.1	1455	1322	90.9	1150	14.9	1064	915	916
	T	4500	345	322	93.4	303	6.3	1935	1799	93	1555	15.7	1079	922	922
MEGHAHATUBURU	L	875	70	97	138.1	104	-6.8	359	449	125	460	-2.5	97	41	25
	F	2625	240	218	90.7	211	3.0	1168	1344	115	1085	23.9	501	296	282
	T	3500	310	314	101.4	315	-0.2	1527	1793	117	1546	16.0	598	337	307
BOLANI	L	2586	215	205	95.1	195	4.6	1075	998	92.8	890	12.1	127	162	154
	F	3914	330	320	97.0	211	52.0	1660	1547	93.2	1436	7.8	1617	1820	1798
	T	6500	545	525	96.3	406	29.2	2735	2545	93.1	2326	9.4	1744	1982	1952
BARSUA	L	803	75	46	61.9	35	34.4	345	267	77.5	144	85.3	19	7	5
	F	1697	150	87	58.3	113	-22.4	710	374	52.6	305	22.4	284	282	278
	T	2500	225	134	59.5	147	-9.1	1055	641	60.7	450	42.6	303	289	283
TALDIH	L	332	28	10	35.2	11	-7.3	138	105	75.9	150	-30.0	17	18	18
	F	618	52	26	49.2			258	128	49.4	88	44.5	27	24	35
	T	950	80	35	44.3	11	233.4	396	232	58.6	238	-2.4	44	42	53
KALTA	L	1229	95	32	33.9	80	-59.6	515	340	66	342	-0.7	35	6	
	F	1071	80	8	9.6	39	-80.5	440	285	64.7	267	6.5	53	2	
	T	2300	175	40	22.8	119	-66.5	955	624	65.4	610	2.4	88	8	
GUA	L	1130	80	68	84.4	90	-24.9	460	398	86.5	503	-20.9	26	27	31
	F	2870	220	221	100.3	226	-2.3	1180	1033	87.6	991	4.2	141	192	173
	T	4000	300	288	96.1	316	-8.7	1640	1432	87.3	1494	-4.2	167	219	204
MANOHARPUR	L	375	44	19	43.1	26	-27.1	158	143	90.7	146	-2.2	1	4	
	F	375	32	15	48.3	19	-19.7	158	124	78.5	101	22.9	3	5	33
	T	750	76	34	45.3	45	-24.0	316	267	84.6	247	8.0	3	6	37
TOTAL	L	8480	697	573	82.3	611	-6.1	3530	3177	90	3041	4.5	336	269	243
	F	16520	1359	1120	82.4	1051	6.5	7029	6157	87.6	5424	13.5	3690	3536	3515
	T	25000	2056	1693	82.3	1662	1.9	10559	9334	88.4	8465	10.3	4026	3805	3758

IRON ORE MINES PERFORMANCE (ROM & DEVELOPMENT)

August 2019

UNIT 000 TE

DEVELOPMENT										
	FOR MONTH			LAST YR Aug 2018	GRTH %	TILL MONTH			LAST YR	GRTH % LSTYR
	TGT	ACT	%FF			TGT	ACT	%FF		
KIRIBURU	70	90	129	32	184	740	732	99	494	48
MEGHAHATUBURU	270	236	87	248	-5	1750	1286	73	1400	-8
BOLANI	310	106	34	282	-62	1770	667	38	1272	-48
BARSUA	150	52	34	35	49	450	238	53	90	164
TALDIH	70	21	30			366	107	29	65	64
KALTA										
GUA	200	56	28	190	-71	1160	249	21	882	-72
MANOHARPUR							12		1	1029
TOTAL	1070	561	52	786	-29	6236	3291	53	4204	-21.7

ROM										
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KIRIBURU	320	320	100	314	2	1875	1641	88	1615	2
MEGHAHATUBURU	332	350	105	359	-2	1629	1682	103	1534	10
BOLANI	535	493	92	425	16	2650	2745	104	2136	29
BARSUA	245	136	55	156	-13	1155	638	55	567	12
TALDIH	80	42	52	61	-31	396	260	66	399	-35
KALTA	175	28	16	128	-78	945	577	61	619	-7
GUA	305	323	106	300	8	1640	1513	92	1630	-7
MANOHARPUR	64	65	102	51	28	316	294	93	251	17
TOTAL	2056	1757	85	1793	-2	10606	9348	88	8750	7

TOTAL EXCAVATION										
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KIRIBURU	390	411	105	346	19	2615	2373	91	2108	13
MEGHAHATUBURU	602	586	97	607	-3	3379	2967	88	2933	1
BOLANI	845	599	71	707	-15	4420	3412	77	3408	0
BARSUA	395	187	47	190	-2	1605	876	55	657	33
TALDIH	150	63	42	61	4	762	367	48	464	-21
KALTA	175	28	16	128	-78	945	577	61	619	-7
GUA	505	379	75	490	-23	2800	1762	63	2512	-30
MANOHARPUR	64	65	102	51	28	316	306	97	252	21
TOTAL	3126	2318	74	2579	-10	16842	12639	75	12954	-2

Performance against Last Year

Unit in Te	PREVIOUS YEAR EXCAVATION PERFORMANCE 2018-19																											
	Kiriburu			Meghahatuburu			Bolani			Barsua			Taldih			Kalta			Gua			Manoharpur			RMD TOTAL			
	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	
Apr-18	414550	277830	136720	579990	299790	280200	693432	308108	385324	2365		2365	121796	98306	23490	141140	141140		532303	341000	191303	18700	18700		2504276	1484874	1019402	
May-18	464760	365490	99270	660790	297090	363700	697182	468363	228819	109405	88915	20490	111636	89676	21960	144020	144020		571268	341100	230168	70140	70140		2829201	1864794	964407	
Jun-18	538824	346680	192144	595770	262170	333600	705132	485008	220124	197559	181049	16510	94690	79030	15660	117100	117100		431453	325310	106143	65968	64914	1054	2746496	1861261	885235	
Jul-18	343980	310230	33750	489910	315810	174100	605878	449568	156310	157244	141135	16109	75485	71255	4230	89100	89100		486783	322650	164133	46439	46439		2294819	1746187	548632	
Aug-18	346140	314280	31860	606930	358830	248100	706618	424818	281800	190450	155765	34685	60770		127600	127600		490050	300060	189990	50834	50834		2579392	1792957	786435		
Total	2108254	1614510	493744	2933390	1533690	1399700	3408242	2135865	1272377	657023	566864	90159	464377	399037	65340	618960	618960		2511858	1630120	881738	252081	251027	1054	12954185	8750073	4204112	

Unit in Te	THIS YEAR EXCAVATION PERFORMANCE 2019-20																											
	Kiriburu			Meghahatuburu			Bolani			Barsua			Taldih			Kalta			Gua			Manoharpur			RMD TOTAL			
	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	TOT EXC	ROM	OB	
Apr-19	476920	304560	172360	581010	330210	250800	731841	548586	183255	2412	2412	45841	45616	225	176200	176200		334980	290790	44190	92799	84005	8794	2442003	1782379	659624		
May-19	513762	305010	208752	600080	348300	251780	677697	570506	107191	256843	180023	76820	53438	53438		159400	159400		373590	292950	80640	62702	61609	1093	2697512	1971236	726276	
Jun-19	518580	360630	157950	611100	335430	275670	736765	583665	153100	219139	160464	58675	87789	45903	41886	129100	129100		355590	312750	42840	37068	35059	2009	2695131	1963001	732130	
Jul-19	452880	350280	102600	588960	317610	271350	666320	548798	117522	210022	158842	51180	116769	73281	43488	84200	84200		319140	293490	25650	47976	47976		2486267	1874477	611790	
Aug-19	410850	320490	90360	586190	350100	236090	599032	493051	105981	187353	135788	51565	63168	41820	21348	27700	27700		378630	322830	55800	65108	65108		2318031	1756887	561144	
Total	2372992	1640970	732022	2967340	1681650	1285690	3411655	2744606	667049	875769	637529	238240	367005	260058	106947	576600	576600		1761930	1512810	249120	305653	293757	11896	12638944	9347980	3290964	

Change Over Last Year																												
DIFF	264738	26460	238278	33950	147960	-114010	3413	608741	-605328	218746	70665	148081	-97372	-138979	41607	-42360	-42360	-749928	-117310	-632618	53572	42730	10842	-315241	597907	-913148		
%Chg	12.6	1.6	48.3	1.2	9.6	-8.1	0.1	28.5	-47.6	33.3	12.5	164.2	-21.0	-34.8	63.7	-6.8	-6.8	-	-29.9	-7.2	-71.7	21.3	17.0	1028.7	-2.4	6.8	-21.7	

Performance against Last Year

Unit in Te

PREVIOUS YEAR PRODUCTION PERFORMANCE 2018-19																											
	Kiriburu			Megahatuburu			Bolani			Barsua			Taldih			Kalta			Gua			Manoharpur			RMD TOTAL		
	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT
Apr-18	73813	204017	277830	82542	217606	300148	93647	217222	310869				39333	29869	69202	79217	88549	167766	92820	248180	341000	18700	18700	480072	1005443	1485515	
May-17	83313	282177	365490	86157	217474	303631	184356	276615	460973	23342	65573	88915	35870	35918	71788	74843	71871	146714	94338	246762	341100	44310	25830	70140	626531	1222220	1848751
Jun-17	75868	270812	346680	68642	235470	304112	185256	292582	477838	50900	129999	180899	31623	13503	45126	61887	45438	107325	94500	230810	325310	33310	31604	64914	601986	1250218	1852204
Jul-17	86553	223677	310230	86047	135257	221304	193161	251857	445018	46105	85412	131517	28502	15190	43692	48711	16190	64901	96275	226375	322650	18981	27458	46439	604335	981416	1585751
Aug-17	90540	223740	314280	137381	135108	272489	188120	219138	407258	47165	99358	146523	24308	24972	78855	52463	131318	84805	215255	300060	31619	19215	50834	682793	964941	1647734	
Total	410087	1204423	1614510	460769	940915	1401684	844542	1257414	2101956	167512	380342	547854	159636	95144	254780	343513	274511	618024	462738	1167382	1630120	146920	104107	251027	2995717	5424238	8419955

ge Over Last Year

THIS YEAR PRODUCTION PERFORMANCE 2019-20																											
	Kiriburu			Megahatuburu			Bolani			Barsua			Taldih			Kalta			Gua			Manoharpur			RMD TOTAL		
	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT
Apr-19	96120	208440	304560	80355	231111	311466	235045	320436	555481	1447	965	2412	23020	22596	45616	70273	83074	153346	86470	204320	290790	41031	42975	84006	633761	1113916	1747677
May-19	80463	224547	305010	72935	263700	336635	215460	379261	594721	90186	89837	180023	27238	21392	48630	68818	82737	151555	86275	206675	292950	25831	35778	61609	667206	1303927	1971133
Jun-19	96565	264065	360630	75243	248397	323640	191188	393427	584615	54669	105795	160464	20853	22227	43080	64730	43652	108382	92885	219865	312750	7447	27612	35059	603580	1325040	1928620
Jul-19	98640	251149	349789	68360	211573	279933	194632	352006	546638	60996	89376	150372	24663	45143	69806	69762	19497	89259	84110	209380	293490	43828	4148	47976	644991	1182272	1827263
Aug-19	96623	223867	320490	84377	199584	283961	196442	293979	490421	44574	85833	130407	9534	30333	39867	23714	3041	26755	86283	236547	322830	21773	43335	65108	563320	1116519	1679839
Total	468411	1172068	1640479	381270	1154365	1535635	1032767	1739109	2771876	251872	371806	623678	105309	141691	246999	297296	232001	529297	436023	1076787	1512810	139910	153848	293758	3112858	6041674	9154532

DIFF

58324	-32355	25969	-79499	213450	133951	188225	481695	669920	84360	-8536	75824	-54327	46547	-7781	-46217	-42510	-88727	-26715	-90595	-117310	-7010	49741	42731	117141	617436	734577
14	-3	2	-17	23	10	22	38	32	50	-2	14	-34	49	-3	-13	-15	-14	-6	-8	-7	-5	48	17	4	11	9

Performance against Last Year

Unit in Tons	PREVIOUS YEAR DESPATCH PERFORMANCE 2018-19																											
	Kiriburu			Megahatuburu			Bolani			Barsua			Taldih			Kalta			Gua			Manoharpur			RMD TOTAL			
	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	
Apr-18	83370	219106	302476	124184	208457	332641	121767	314857	436624				41799	23872	65671	72764	88815	161579	110181	207154	317335	18434	18434	572499	1062261	1634760		
May-18	86809	224690	311499	90587	221302	311889	143299	321339	464638	11027	13401	24428	28797	33720	62517	72019	67164	139183	105181	173192	278373	48609	22053	70662	586328	1076861	1663189	
Jun-18	77029	251775	328804	55535	254983	310518	233646	310958	544604	48990	69219	118209	36341	16492	52833	71150	57334	128484	97799	171704	269503	30731	33316	64047	651221	1165781	1817002	
Jul-18	86744	222210	308954	86332	189169	275501	196074	277784	473858	49665	110036	159701	32062	14194	46256	46764	14455	61219	99794	213607	313401	22688	26287	48975	620123	1067742	1687865	
Aug-18	70849	232280	303129	103720	211329	315049	195435	210652	406087	34538	112653	147191	10639	10639	79638	39235	118873	89921	225752	315673	26029	19246	45275	610769	1051147	1661916		
Total	404801	1150061	1554862	460358	1085240	1545598	890221	1435590	2325811	144220	305309	449529	149638	88278	237916	342335	267003	609338	502876	991409	1494285	146491	100902	247393	3040940	5423792	8464732	

Unit in Tons	THIS YEAR DESPATCH PERFORMANCE 2019-20																											
	Kiriburu			Megahatuburu			Bolani			Barsua			Taldih			Kalta			Gua			Manoharpur			RMD TOTAL			
	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	LUMP	FINES	TOT	
Apr-19	96988	280794	377782	115405	294500	409906	160085	257840	417926	18255	60941	79197	23870	24945	48815	81820	99024	180844	93757	203027	296784	37460	40809	78269	627641	1261881	1889522	
May-19	84249	276191	360436	69662	300928	370590	218759	294752	513511	67408	52621	120030	23807	19674	43481	71974	110531	182505	80272	206594	286866	34307	33098	67405	650438	1294389	1944827	
Jun-19	95527	281789	377316	80316	264348	344664	211647	346997	558644	77147	107264	184411	19975	14596	34570	61726	37443	99169	81427	211581	293008	6378	24141	30520	634143	1288159	1922302	
Jul-19	103456	258082	361538	87011	266761	353772	202773	327706	530480	58008	65353	123360	27185	42716	69901	92230	29799	122029	75013	191694	266707	46149	10536	56685	691826	1192647	1884472	
Aug-19	97197	225015	322212	96678	217620	314298	204511	320141	524652	46417	87433	133850	9867	25602	35469	32191	7703	39894	67554	220597	288151	18968	15446	34414	573383	1119558	1692941	
Total	477416	1321871	1799287	449073	1344157	1793230	997776	1547437	2545213	267236	373612	640848	104704	127533	232237	339941	284500	624441	398023	1033493	1431516	143263	124030	267293	3177432	6156633	9334064	
Change Over Last Year																												
DIFF	72615	171810	244425	-11285	258917	247632	107555	111847	219402	123016	68303	191319	-44934	39255	-5679	-2394	17497	15103	-104853	42084	-62769	-3228	23128	19900	136492	732841	869332	
%Chg	17.9	14.9	15.7	-2.5	23.9	16.0	12.1	7.8	9.4	85.3	22.4	42.6	-30.0	44.5	-2.4	-0.7	6.6	2.5	-20.9	4.2	-4.2	-2.2	22.9	8.0	4.5	13.5	10.3	

IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

August 2019

बोकारो इस्पात संयंत

MINE	LUMP								FINES								TOTAL								
	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH	
	APP	ACT	%FF	APP	ACT	%FF			APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%	
KRB	25	24	95	125	72	58	171	-58	45	108	240	255	567	223	467	21	70	132	188	380	640	168	639	0	
MBR	45	49	109	234	236	101	189	25	75	87	117	454	474	104	489	-3	120	136	114	688	710	103	678	5	
BOL	40	20	51	285	335	118	272	24	55	21	38	390	255	65	279	-9	95	42	44	675	590	87	551	7	
BAR	65	46	71	295	267	91	20	1216	105	87	83	460	374	81	235	59	170	134	79	755	641	85	255	151	
TAL	10	10	99	75	85	113	10	709	20			113	36	32	88	-59	30	10	33	188	121	64	99	22	
KAL	45			225	4	2	236	-98	25			94	33	35	61	-46	70			319	37	12	297	-88	
GUA		2		20	26	128	9	186	6	8	132	38	73	191	32	124	6	10	172	58	98	169	41	137	
MPR	12	19	158	50	112	224	77	45	15	15	103	75	58	78	58	1	27	34	127	125	170	136	135	26	
RMD TOT	242	171	71	1309	1137	87	985	15	346	327	95	1879	1870	100	1711	9	588	498	85	3188	3007	94	2695	12	
DRZ																									
PUR																									
GR TOT	242	171	71	1309	1137	87	985	15	346	327	95	1879	1870	100	1711	9	588	498	85	3188	3007	94	2695	12	
FLUXES																									
KTR	40	39	99	200	188	94	143	31																	
TDMR	6	4	64	26	35	133	24	41																	
TOT	46	43	94	226	222	98	167	33																	

IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

August 2019

दूर्गापूर इस्पात संयंत्र

MINE	LUMP								FINES								TOTAL									
	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH		
	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%		
KRB																										
MBR		1			5		7	-32			3		38	86	227	59	45			4		38	91	239	66	37
BOL	130	125	96	570	455	80	414	10	178	175	98	822	760	92	686	11	308	300	97	1392	1215	87	1100	10		
BAR																										
TAL																										
KAL																										
GUA	20	15	74	137	146	107	190	-23	50	38	76	236	281	119	422	-33	70	53	76	373	428	115	613	-30		
MPR																										
RMD TOT	150	141	94	707	606	86	611	-1	228	216	95	1096	1127	103	1168	-3	378	357	94	1803	1733	96	1779	-3		
DRZ																										
PUR																										
GR TOT	150	141	94	707	606	86	611	-1	228	216	95	1096	1127	103	1168	-3	378	357	94	1803	1733	96	1779	-3		
FLUXES																										
KTR	4	4	99	28	28	99	24	15																		
TDMR																										
TOT	4	4	99	28	28	99	24	15																		

IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

August 2019

रात्रकेला इस्पात संयंत्र

MINE	LUMP										FINES										TOTAL										UNIT '000 TONNES	
	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH								
	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%								
KRB	65	74	113	355	405	114	233	74	95	117	123	510	574	113	663	-13	160	190	119	865	979	113	896	9								
MBR	25	46	185	125	209	167	261	-20	115	86	75	545	638	117	442	44	140	132	95	670	846	126	703	20								
BOL																																
BAR	10			50			124	-100	45			250			70	-100	55			300				194	-100							
TAL	18			63	20	32	139	-86	32	26	80	145	92	63			50	26	51	208	111	54	139	-20								
KAL	50	32	64	290	336	116	106	216	55	8	14	346	249	72	206	21	105	40	38	636	584	92	312	87								
GUA																																
MPR	10			10	28	280	62	-55	17		83	60	72	32	90	27			93	88	95	94	-6									
RMD TOT	178	152	85	893	997	112	926	8	359	236	66	1879	1612	86	1412	14	537	388	72	2772	2609	94	2338	12								
PUR																																
DRZ								6	-100															6	-100							
GR TOT	178	152	85	893	997	112	932	7	359	236	66	1879	1612	86	1412	14	537	388	72	2772	2609	94	2344	11								
FLUXES																																
KTR	8	28	346	44	112	254	39	185																								
TDMR	4			17	3	16	5	-48																								
TOT	12	28	231	61	114	188	45	157																								

IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

August 2019

बर्नपूर इस्पात संयंत्र

UNIT '000 TONNES

MINE	LUMP								FINES								TOTAL									
	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH		
	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%		
KRB																3	-100							3	-100	
MBR							3	-100		41			146			92	60		41			146			95	54
BOL	45	59	131	220	207	94	204	1	90	124	138	435	533	123	470	13	135	184	136	655	740	113	674	10		
BAR																										
TAL																										
KAL																										
GUA	60	51	84	303	226	75	304	-25	156	120	77	853	535	63	537	0	216	170	79	1156	761	66	840	-9		
MPR	22			98	3	4	8	-54					3			12	-72	22			98	7	7	19	-65	
RMD TOT	127	110	86	621	437	70	519	-16	246	285	116	1288	1217	95	1113	9	373	395	106	1909	1654	87	1632	1		
DRZ																										
PUR																										
GR TOT	127	110	86	621	437	70	519	-16	246	285	116	1288	1217	95	1113	9	373	395	106	1909	1654	87	1632	1		

FLUXES

KTR								
TDMR							3	-100
TOT							3	-100

IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

August 2019

भिलाई इस्पात संयंत्र

MINE	LUMP								FINES								TOTAL								UNIT '000 TONNES				
	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH					
	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%					
KRB									100			500	181	36	17	995	100			500	181	36	17	995					
MBR																4	-100								4	-100			
BOL																													
BAR																													
TAL																													
KAL																													
GUA										55			144						55			144							
MPR													3									3							
RMD TOT									100	55	55	500	328	66	20	1510	100	55	55	500	328	66	20	1510					
DRZ																													
PUR																													
GR TOT									100	55	55	500	328	66	20	1510	100	55	55	500	328	66	20	1510					
FLUXES																													
KTR	40	48	119	212	215	101	167	28																					
TDMR	6	4	69	24	24	98	72	-67																					
TOT	46	52	113	236	238	101	239	0																					

IRON ORE & FLUXES DISTRIBUTION AND TRANSFERS

August 2019

BSL+DSP+RSP+ISP+BSP

MINE	LUMP								FINES								TOTAL								
	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH	FOR MONTH			TILL MONTH			LAST	GRTH	
	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%	APP	ACT	%FF	APP	ACT	%FF	YR	%	
KRB	90	97	108	480	477	99	405	18	240	225	94	1265	1322	104	1150	15	330	322	98	1745	1799	103	1555	16	
MBR	70	97	138	359	449	125	460	-2	190	218	115	1037	1344	130	1085	24	260	314	121	1396	1793	128	1546	16	
BOL	215	205	95	1075	998	93	890	12	323	320	99	1647	1547	94	1436	8	538	525	98	2722	2545	94	2326	9	
BAR	75	46	62	345	267	77	144	85	150	87	58	710	374	53	305	22	225	134	59	1055	641	61	450	43	
TAL	28	10	35	138	105	76	150	-30	52	26	49	258	128	49	88	44	80	35	44	396	232	59	238	-2	
KAL	95	32	34	515	339	66	342	-1	80	8	10	440	282	64	267	5	175	40	23	955	621	65	610	2	
GUA	80	68	84	460	398	87	503	-21	212	221	104	1127	1033	92	991	4	292	288	99	1587	1432	90	1494	-4	
MPR	44	19	43	158	143	91	146	-2	32	15	48	158	124	78	101	23	76	34	45	316	267	85	247	8	
RMD TOT	697	573	82	3530	3177	90	3041	4	1279	1120	88	6642	6154	93	5424	13	1976	1693	86	10172	9331	92	8465	10	
PUR																									
DRZ								6	-100															6	-100
GR TOT	697	573	82	3530	3177	90	3047	4	1279	1120	88	6642	6154	93	5424	13	1976	1693	86	10172	9331	92	8471	10	
FLUXES																									
KTR	92	119	129	484	541	112	373	45																	
TDMR	16	8	50	67	61	91	105	-42																	
TOT	108	127	117	551	602	109	478	26																	

FLUX MINES OPERATIONS
August 2019

UNIT 000 TONNES

PRODUCTION

MINE		PLAN	FOR THE MONTH				GRTH % OVER LSTYR	TILL THE MONTH				GRTH % OVER LSTYR
		2019-20	TGT	ACT	%FF	LAST YR Aug 2018		Aug 2018	TGT	ACT	%FF	LAST YR
KUTESHWAR	LST	1200	92	114	124.4	46	147.9	484	540	112	366	47.5
TULSIDAMAR	DOLO	210	16	19	116.9	15	26.1	67	76	113	72	5.5
RMD TOTAL		1410	108	133	123.3	61	118.3	551	616	112	438	40.6

DESPATCHES

MINE		PLAN	FOR THE MONTH				GRTH % OVER LSTYR	TILL THE MONTH				GRTH % OVER LSTYR
		2019-20	TGT	ACT	%FF	LAST YR		TGT	ACT	%FF	LAST YR	
KUTESHWAR	LST	1200	92	119	129.1	47	150.2	484	541	112	373	45.0
TULSIDAMAR	DOLO	210	16	8	50.2	27	-70.1	67	61	90.8	105	-41.8
RMD TOTAL		1410	108	127	117.4	74	70.5	551	602	109	478	26.0

Performance against Last Year

Unit in Te	PREVIOUS YEAR FLUX PERFORMANCE 2018-19					
	KTR		Tulsidamar		RMD TOTAL	
	PROD	DESP	PROD	DESP	PROD	DESP
Apr-18	65066	71776	13836	22043	78902	93819
May-18	75105	87834	14281	12953	89386	100787
Jun-18	98203	86914	15876	21881	114079	108795
Jul-18	81536	79424	12834	20622	94370	100046
Aug-18	46162	47466	14831	26918	60993	74384
Total	366072	373413	71658	104417	437730	477830

THIS YEAR FLUX PERFORMANCE 2019-20						
	KTR		Tulsidamar		RMD TOTAL	
	PROD	DESP	PROD	DESP	PROD	DESP
Apr-19	103185	103843	4991	6436	108176	110279
May-19	106405	111455	13271	5580	119676	117035
Jun-19	99865	103779	17007	21047	116872	124825
Jul-19	116207	103395	21599	19730	137806	123125
Aug-19	114438	118764	18702	8038	133140	126802
Total	540100	541235	75571	60831	615671	602066

Over Last Year

DIFF	174028	167821	3913	-43586	177941	124235
%Chg	47.5	44.9	5.5	-41.7	40.7	26.0

QUALITY ANALYSED AT PLANT

August 2019

बोकारो इस्पात संयंत्र

लौह अयस्क लम्प

लौह अयस्क फाईन्स

FLUX

MINES		Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	MINES		CaO%	MgO%	SiO ₂ %	OS%	US%
KRB	NORM	62.5	3	2.5	10	10	5.5	62.5	3.4	2.6	5	30	6	TDM	NORM	30	18	5	5	10
	MTH ACT	62.84	2.9	2.22	22.73	13.22	5.12	61.65	4.45	2.36	8.84	33	6.81		MTH ACT	26.47	17.99	5.96	4.68	9.05
CUM	2019-20	62.71	3.18	2.16	19.39	16.55	5.34	61.76	4.02	2.62	8.61	32.56	6.64	CUM	2019-20	26.51	17.93	5.58	4.4	8.01
CUM	2018-19	62.69	3.48	1.81	15.13	18.65	5.29	62.07	3.84	2.37	9.88	30.63	6.21	CUM	2018-19	28.68	18.79	5.17	5.05	9.06

MBR	NORM	62.5	3.4	2.6	10	10	6	62	4	2.5	5	30	6.5	KTR	NORM	50	2.25	3.5	5	5
	MTH ACT	63.02	3.03	1.95	18.1	17.54	4.98	61.65	4.54	2.47	6.04	33.91	7.01		MTH ACT	44.27	3.96	3.54	10.77	16.23
CUM	2019-20	63.07	2.87	1.94	17.45	17.75	4.81	61.59	4.43	2.54	5.84	35.18	6.97	CUM	2019-20	43.77	3.4	3.51	10.89	15.64
CUM	2018-19	62.89	3.14	1.89	14.94	19.89	5.03	61.79	4.19	2.47	5.29	35.44	6.66	CUM	2018-19	43.69	2.42	3.53	6.85	22.69

GUA	NORM	62.5	3	2.2	10	10	5.2	62.5	3	2.7	5	40	5.7
	MTH ACT	63.29	2.48	1.86	14.6	21.47	4.34	61.7	3.81	2.88	4.77	35.27	6.69
CUM	2019-20	63.2	2.41	1.96	19.7	17.66	4.37	61.9	3.67	2.63	3.83	38.42	6.3
CUM	2018-19	63.14	2.75	1.87	20.18	18.68	4.62	62.37	3.44	2.22	3.03	41.02	5.66

BOL	NORM	62.5	2.8	2.5	10	10	5.3	62.5	2.9	2.8	5	30	5.7
	MTH ACT	63.08	2.77	2	25.14	14.52	4.77	61.6	4.3	2.58	6.67	33.34	6.88
CUM	2019-20	63.01	2.56	2.27	20.78	17.39	4.83	61.75	3.85	2.76	6.25	34.99	6.61
CUM	2018-19	62.96	2.87	2.03	20.19	17.09	4.9	61.9	3.62	2.66	5.89	34.49	6.28

BAR	NORM	62.5	2.9	3	10	10	5.9	62	3.5	3	5	30	6.5
	MTH ACT	62.86	2.5	2.62	20.46	14.86	5.12	61.29	3.99	3.35	6.41	34.2	7.34
CUM	2019-20	62.78	2.46	2.73	19.19	15.89	5.19	61.12	3.95	3.64	6.24	34.28	7.59
CUM	2018-19	62.75	2.28	2.97	20.11	17.79	5.25	61.52	3.47	3.6	6.1	34.36	7.07

KAL	NORM	63	2.1	2.3	5	10	4.4	63	2.4	2.5	5	40	4.9
	MTH ACT												
CUM	2019-20	64.41	1.86	1.57	8.3	10.2	3.43	63.01	2.89	2.04	4.62	29.49	4.93
CUM	2018-19	63.76	2.13	2.06	6.64	12.96	4.19	63.31	2.45	2.27	4.49	29.85	4.72

MPR	NORM	63			10	10		63			5	40	
	MTH ACT	63.65	2.05	2.07	10.52	9.22	4.12	63.13	3.26	1.56	5.23	29.48	4.82
CUM	2019-20	63.75	1.95	1.97	11.35	8.99	3.92	62.91	3.11	1.97	4.5	28.99	5.08
CUM	2018-19	63.78	2.07	1.91	13	10.83	3.98	63.29	2.48	2.19	4.53	29.54	4.67

TAL	NORM	62.5			5	10		62			5	40	
	MTH ACT	63.49	2.29	1.93	10.43	9.37	4.22						
CUM	2019-20	63.36	1.98	2.28	10.62	10.81	4.26	61.61	3.7	3.14	5.04	30.44	6.84
CUM	2018-19	63.31	2.42	2.14	12.11	14.44	4.56	62.53	2.87	3.02	4.9	30.39	5.89

August 2019
दूर्गापूर इस्पात संयंत्र

लौह अयस्क लम्प

लौह अयस्क फाईन्स

FLUX

MINES		Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	MINES		CaO%	MgO%	SiO ₂ %	OS%	US%
MBR	NORM	62.5	3.4	2.6	10	10	6	62	4	2.5	5	30	6.5	KTR	NORM	50	2.25	3.5	5	5
	MTH ACT							60.3	7.4	2.2	13.5	39.3	9.6		MTH ACT	45.5	1.3	3.3	14.4	15.9
CUM	2019-20	58.8	6.9	2.6	5.2	17.1	9.5	60.79	6.37	2.48	6.81	46.57	8.85	CUM	2019-20	45.91	1.66	4.07	13.83	27.63
CUM	2018-19	61.14	2.53	1.95	17.13	4.09	4.48	61.58	5.04	2.2	4.04	47.09	7.24	CUM	2018-19	46.79	2.11	3.99	18.2	17.77

GUA	NORM	62.5	3	2.2	10	10	5.2	62.5	3	2.7	5	40	5.7							
	MTH ACT	58.48	7.83	2.63	21.69	12.43	10.46	62.13	3.83	2.62	3.4	48.7	6.45							
CUM	2019-20	62.15	3.54	1.9	14.07	12.79	5.44	62.52	3.35	2.5	4.48	48.7	5.85							
CUM	2018-19	62.7	3.12	1.68	20.86	15.61	4.8	63.29	3.01	1.97	2.91	50.58	4.98							

BOL	NORM	62.5	2.8	2.5	10	10	5.3	62.5	2.9	2.8	5	30	5.7							
	MTH ACT	60.91	4.23	1.71	29.71	9.23	5.94	61.66	3.99	2.34	9.16	38.63	6.33							
CUM	2019-20	61.58	3.69	1.87	26.42	11.73	5.56	61.96	3.55	2.6	7.94	40.61	6.15							
CUM	2018-19	62.18	2.87	1.94	22.28	14.17	4.81	62.39	3.07	2.61	5.88	41.44	5.68							

QUALITY ANALYSED AT PLANT

August 2019

रात्रकेला इस्पात संयंत्र

लौह अयस्क लम्प

लौह अयस्क फाईन्स

FLUX

MINES		Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	MINES		CaO%	MgO%	SiO ₂ %	OS%	US%
KRB	NORM	62.5	3	2.5	10	10	5.5	62.5	3.4	2.6	5	30	6	TDM	NORM	30	18	5	5	10
	MTH ACT	61.84	4.71	2.35	19	19	7.06	61.12	5.29	2.19	9	42	7.48		MTH ACT					
CUM	2019-20	62.34	3.61	2.7	16.39	21.01	6.31	61.76	3.9	2.6	7.72	39.22	6.5	CUM	2019-20	29.7	19.7	3.4		
CUM	2018-19	62.57	3.3	2.68	14.73	20.57	5.98	62.07	3.31	2.72	7.5	37.19	6.03	CUM	2018-19					

MBR	NORM	62.5	3.4	2.6	10	10	6	62	4	2.5	5	30	6.5	KTR	NORM	50	2.25	3.5	5	5
	MTH ACT	62	4.35	2.5	16	23	6.85	61.22	5.11	2.17	8	39	7.28		MTH ACT	49.9	1.98	4.18		
CUM	2019-20	62.42	2.93	3.23	19.8	20.1	6.16	61.79	3.76	2.69	8.77	38.58	6.45	CUM	2019-20	50.39	2.06	3.31		
CUM	2018-19	62.53	3.23	2.82	15.66	20	6.05	62.01	3.41	2.71	8.1	35.62	6.12	CUM	2018-19	49.78	2.61	3.04		

GUA	NORM	62.5	3	2.2	10	10	5.2	62.5	3	2.7	5	40	5.7							
	MTH ACT																			
CUM	2019-20																			
CUM	2018-19	62.6	3.3	2.6	4	41	5.9													

BAR	NORM	62.5	2.9	3	10	10	5.9	62	3.5	3	5	30	6.5							
	MTH ACT																			
CUM	2019-20																			
CUM	2018-19	62.41	3.14	3.08	12.87	22.29	6.22	61.8	3.42	2.98	7.2	34.12	6.4							

KAL	NORM	63	2.1	2.3	5	10	4.4	63	2.4	2.5	5	40	4.9							
	MTH ACT	63.19	3.15	2.03	17.43	14.71	5.18	62.95	2.7	2.15			4.85							
CUM	2019-20	63.31	2.57	2.32	15.87	14.92	4.89	62.9	2.45	2.38	8.52	38.23	4.83							
CUM	2018-19	63.47	2.51	2.16	13.93	16.7	4.67	62.96	2.52	2.09	6.27	34.35	4.61							

MPR	NORM	63			10	10		63			5	40								
	MTH ACT																			
CUM	2019-20	63.31	2.51	2.37	19.44	16.2	4.88	62.89	2.41	2.41	7.66	37.99	4.82							
CUM	2018-19	63.4	2.56	2.27	16.64	15.8	4.83	62.93	2.57	2.38	7.89	35.05	4.95							

TAL	NORM	62.5			5	10		62			5	40								
	MTH ACT							61.46	4.57	2.4			6.97							
CUM	2019-20	62.67	2.88	2.93	14.42	18.95	5.81	61.83	3.83	2.57	1.11	5.53	6.4							
CUM	2018-19	63.46	2.45	2.26	9.36	17.55	4.71													

QUALITY ANALYSED AT PLANT

August 2019

बर्नपूर इस्पात संयंत्र

लौह अयस्क लम्प

लौह अयस्क फार्मिन्स

FLUX

MINES		Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	MINES		CaO%	MgO%	SiO ₂ %	OS%	US%
KRB	NORM	62.5	3	2.5	10	10	5.5	62.5	3.4	2.6	5	30	6	TDM	NORM	30	18	5	5	10
	MTH ACT														MTH ACT					
CUM	2019-20													CUM	2019-20					
CUM	2018-19							62.7	2.24	3.35	13.13	41.97	5.59	CUM	2018-19					

MBR	NORM	62.5	3.4	2.6	10	10	6	62	4	2.5	5	30	6.5	KTR	NORM	50	2.25	3.5	5	5
	MTH ACT							61.4	5.39	2.19	10.22	33.43	7.58		MTH ACT					
CUM	2019-20							62.12	4.54	2.38	9.02	37.21	6.92	CUM	2019-20					
CUM	2018-19	64.79	1.47	1.18	66.82	0.7	2.65	61.27	4.79	3.22	7.97	37.97	8.01	CUM	2018-19					

GUA	NORM	62.5	3	2.2	10	10	5.2	62.5	3	2.7	5	40	5.7							
	MTH ACT	63.15	3.54	1.83	25.12	6.05	5.37	62.58	3.91	2.28	5.67	46.99	6.19							
CUM	2019-20	63.53	3.03	1.95	15.6	5.38	4.98	63.04	3.44	2.37	6.34	45.7	5.81							
CUM	2018-19	63.06	3.05	1.97	23.77	2.77	5.02	62.87	3.49	2.42	5.09	47.62	5.91							

BOL	NORM	62.5	2.8	2.5	10	10	5.3	62.5	2.9	2.8	5	30	5.7							
	MTH ACT	62.94	4.05	1.7	32.86	7.44	5.75	62.4	4.19	2.49	7.91	38.64	6.68							
CUM	2019-20	63.19	3.43	2.03	24.38	5.33	5.46	62.69	3.67	2.52	8.86	39.84	6.19							
CUM	2018-19	62.77	3.37	2.15	20.1	2.01	5.52	61.65	3.96	3.32	8.43	38.89	7.28							

MPR	NORM	63			10	10		63			5	40								
	MTH ACT																			
CUM	2019-20							62.65	4.43	2.56	5.78	47.69	6.99							
CUM	2018-19	63.37	2.49	2.12	23.76	3.3	4.61	61.03	4.45	3.97	5.28	47.99	8.42							

August 2019
भिलाई इस्पात संयत्र

लौह अयस्क लम्प

लौह अयस्क फार्फन्स

FLUX

MINES		Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	Fe%	SiO ₂ %	Al ₂ O ₃ %	OS%	US%	Gangue%	MINES	CaO%	MgO%	SiO ₂ %	OS%	US%	
KRB	NORM	62.5	3	2.5	10	10	5.5	62.5	3.4	2.6	5	30	6	TDM	30	18	5	5	10	
	MTH ACT																			
CUM	2019-20							62.35	4.3	2.43	5.68	41.86	6.73	CUM	2019-20					
CUM	2018-19							62.75	4.08	2.06	9.07	41.2	6.14	CUM	2018-19	28.53	17.64	8.24	33.75	9.24

MBR	NORM	62.5	3.4	2.6	10	10	6	62	4	2.5	5	30	6.5	KTR	50	2.25	3.5	5	5	
	MTH ACT														50.4	1.85	3.79	8.8	23	
CUM	2019-20													CUM	2019-20	50.03	2.1	3.81	8.46	17.34
CUM	2018-19							62.32	4.69	1.61	1.1	39.6	6.3	CUM	2018-19	49.83	2.26	3.9	9.19	18.3

GUA	NORM	62.5	3	2.2	10	10	5.2	62.5	3	2.7	5	40	5.7						
	MTH ACT							62.06	4.96	2.34	1.96	53.68	7.3						
CUM	2019-20							64.16	2.67	1.83	1.9	53.92	4.5						
CUM	2018-19																		

किरीबुरु

लम्प

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.61	3.35	2.42	14.85	19.99	5.77	0.72	1008420
APP 19-20	62.50	3.00	2.50	10.00	10.00	5.50	0.83	1150000
Apr-19	62.43	3.42	2.57	15.85	19.54	5.99	0.75	98123
May-19	62.53	2.79	3.16	15.16	21.34	5.95	1.13	85576
Jun-19	62.63	3.06	2.87	14.47	22.92	5.93	0.94	81540
Jul-19	62.35	3.98	2.30	18.32	20.56	6.29	0.58	104549
Aug-19	62.07	4.29	2.32	19.87	17.65	6.61	0.54	101188
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.39	3.55	2.62	16.90	20.27	6.17	0.74	470976

किरीबुरु

फाईन्स

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.09	3.53	2.57	8.45	34.82	6.10	0.73	2869948
APP 19-20	62.50	3.40	2.60	5.00	30.00	6.00	0.76	3350000
Apr-19	61.96	3.76	2.61	7.48	37.31	6.37	0.69	268667
May-19	62.01	3.63	2.90	7.78	38.21	6.53	0.80	277835
Jun-19	62.15	3.45	2.69	7.63	32.71	6.14	0.78	272036
Jul-19	61.61	4.51	2.38	7.35	37.17	6.89	0.53	252007
Aug-19	61.38	4.88	2.27	8.92	37.56	7.15	0.47	233704
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	61.84	4.01	2.58	7.81	36.56	6.60	0.64	1304249

मेघाहातुबुरु

लम्प

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.66	3.19	2.46	15.56	19.79	5.64	0.77	1003297
APP 19-20	62.50	3.40	2.60	10.00	10.00	6.00	0.76	875000
Apr-19	62.96	2.90	2.18	17.98	18.75	5.08	0.75	118908
May-19	62.50	2.93	3.07	19.81	19.71	6.01	1.05	69120
Jun-19	62.70	3.07	2.42	18.63	17.47	5.49	0.79	75562
Jul-19	62.64	3.42	2.19	17.50	19.42	5.61	0.64	77921
Aug-19	62.54	3.65	2.21	17.11	20.11	5.86	0.60	101528
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.69	3.20	2.37	18.09	19.11	5.57	0.74	443039

मेघाहातुबुरु

फाईन्स

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	61.86	3.88	2.62	6.81	36.47	6.50	0.67	2726334
APP 19-20	62.00	4.00	2.50	5.00	30.00	6.50	0.63	2625000
Apr-19	61.93	3.88	2.46	5.54	36.09	6.34	0.63	302274
May-19	61.72	3.94	2.78	7.43	38.62	6.72	0.71	302670
Jun-19	61.73	3.93	2.89	8.52	38.33	6.82	0.74	245894
Jul-19	61.58	4.69	2.48	6.59	37.66	7.18	0.53	278469
Aug-19	61.41	4.97	2.29	7.73	36.00	7.26	0.46	218171
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	61.69	4.25	2.59	7.08	37.38	6.84	0.61	1347478

बोलानी

लम्प

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.55	2.97	2.01	21.16	12.69	4.98	0.68	2197173
APP 19-20	62.50	2.80	2.50	10.00	10.00	5.30	0.89	2586000
Apr-19	63.10	2.22	2.27	21.08	11.98	4.49	1.02	160023
May-19	62.53	3.01	2.24	18.21	14.02	5.25	0.74	215081
Jun-19	62.76	2.67	2.10	24.48	14.09	4.78	0.79	202516
Jul-19	62.05	4.17	1.87	26.21	11.77	6.04	0.45	197433
Aug-19	61.77	4.01	1.74	30.16	9.27	5.75	0.43	200134
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.42	3.25	2.04	24.06	12.27	5.29	0.63	975187

गुआ

लम्प

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.96	3.47	1.88	18.97	7.69	5.34	0.54	1084884
APP 19-20	62.50	3.00	2.20	10.00	10.00	5.20	0.73	1130000
Apr-19	63.45	2.37	2.12	8.58	10.10	4.49	0.89	93991
May-19	63.02	2.84	1.84	10.50	10.31	4.67	0.65	87035
Jun-19	63.52	2.82	1.91	17.35	8.53	4.73	0.68	88072
Jul-19	62.55	3.76	1.76	18.24	7.71	5.52	0.47	79082
Aug-19	62.05	4.52	2.02	23.96	8.08	6.54	0.45	71280
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.97	3.19	1.93	15.26	9.02	5.12	0.61	419460

बोलानी

फाईन्स

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.05	3.47	2.85	6.72	39.22	6.32	0.82	3267584
APP 19-20	62.50	2.90	2.80	5.00	30.00	5.70	0.97	3914000
Apr-19	61.93	3.33	3.13	7.01	45.01	6.46	0.94	251813
May-19	62.45	3.24	2.59	8.03	39.81	5.83	0.80	297107
Jun-19	62.35	3.44	2.60	8.79	38.10	6.04	0.75	340167
Jul-19	62.19	4.01	2.38	7.33	37.14	6.39	0.59	325186
Aug-19	61.94	4.09	2.42	8.49	38.25	6.51	0.59	317909
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.18	3.64	2.60	7.98	39.39	6.24	0.71	1532182

गुआ

फाईन्स

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.99	3.32	2.26	4.25	48.31	5.58	0.68	2402128
APP 19-20	62.50	3.00	2.70	5.00	40.00	5.70	0.90	2870000
Apr-19	62.78	3.16	2.75	5.34	43.03	5.91	0.87	203894
May-19	62.90	3.31	2.37	4.75	46.28	5.68	0.72	213942
Jun-19	63.11	3.17	2.32	6.01	47.33	5.48	0.73	219144
Jul-19	63.03	3.52	2.14	5.41	49.48	5.66	0.61	194160
Aug-19	62.33	4.14	2.39	4.28	48.54	6.53	0.58	229040
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.82	3.47	2.39	5.14	46.95	5.86	0.69	1060180

बरसुआ

लम्प

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.58	2.71	3.03	16.49	20.04	5.74	1.12	594000
APP 19-20	62.50	2.90	3.00	10.00	10.00	5.90	1.03	803000
Apr-19	62.63	2.36	3.00	16.36	16.33	5.36	1.27	18255
May-19	62.81	2.40	2.75	17.27	15.72	5.15	1.15	64420
Jun-19	62.92	2.42	2.54	21.48	18.28	4.96	1.05	77557
Jul-19	62.54	2.59	2.97	18.12	13.56	5.56	1.15	57323
Aug-19	62.86	2.50	2.62	20.46	14.86	5.12	1.05	46610
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.78	2.46	2.73	19.19	15.89	5.19	1.11	264165

बरसुआ

फाईन्स

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	61.57	3.46	3.50	6.28	34.32	6.96	1.01	1065000
APP 19-20	62.00	3.50	3.00	5.00	30.00	6.50	0.86	1697000
Apr-19	61.45	3.64	3.43	5.86	33.27	7.07	0.94	67951
May-19	60.77	4.18	4.00	6.43	34.11	8.18	0.96	49035
Jun-19	61.20	3.85	3.61	6.35	34.64	7.46	0.94	103928
Jul-19	60.72	4.17	3.99	6.10	34.90	8.16	0.96	72204
Aug-19	61.29	3.99	3.35	6.41	34.20	7.34	0.84	87433
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	61.12	3.95	3.64	6.24	34.28	7.59	0.92	380551

तल्डीह

लम्प

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	63.43	2.44	2.23	9.97	16.87	4.68	0.91	180621
APP 19-20	62.50			5.00	10.00			332000
Apr-19	63.54	1.84	2.19	10.80	11.43	4.03	1.19	24261
May-19	62.98	2.36	2.70	12.41	15.94	5.06	1.14	27391
Jun-19	63.14	2.43	2.49	11.97	12.89	4.91	1.03	17089
Jul-19	63.15	2.00	2.44	10.70	10.40	4.44	1.22	27484
Aug-19	63.49	2.29	1.93	10.43	9.37	4.22	0.84	10603
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	63.23	2.15	2.41	11.34	12.35	4.56	1.12	106828

तल्डीह

फाईन्स

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.53	2.87	3.02	4.90	30.39	5.89	1.05	101338
APP 19-20	62.00			5.00	40.00			618000
Apr-19	61.79	3.68	2.92	4.94	29.34	6.60	0.79	25767
May-19	61.91	3.11	3.19	6.66	36.90	6.30	1.02	19562
Jun-19	61.72	3.36	3.25	7.10	36.00	6.61	0.97	14989
Jul-19	61.92	3.82	2.43			6.25	0.64	39453
Aug-19	61.46	4.57	2.40			6.97	0.53	28626
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	61.77	3.80	2.73	6.04	33.45	6.53	0.72	128397

मनोहरपुर

लम्प

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	63.65	2.23	2.02	15.03	11.12	4.24	0.90	406931
APP 19-20	63.00			10.00	10.00			375000
Apr-19	63.67	2.12	1.95	14.64	10.92	4.07	0.92	36849
May-19	63.71	1.94	2.14	14.25	11.51	4.08	1.11	29189
Jun-19	63.72	1.95	2.10	10.53	8.40	4.05	1.08	11963
Jul-19	63.62	2.13	2.05	12.37	10.29	4.17	0.96	47536
Aug-19	63.65	2.05	2.07	10.52	9.22	4.12	1.01	19836
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	63.66	2.06	2.05	12.92	10.39	4.11	0.99	145373

काल्टा

लम्प

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	63.57	2.38	2.13	11.41	15.41	4.50	0.89	919599
APP 19-20	63.00	2.10	2.30	5.00	10.00	4.40	1.10	1229000
Apr-19	63.48	2.50	2.11	13.65	15.08	4.61	0.84	79514
May-19	63.36	2.21	2.59	16.00	15.70	4.80	1.17	76324
Jun-19	63.30	2.50	2.40	15.40	15.30	4.90	0.96	56938
Jul-19	63.22	2.76	2.30	17.15	13.77	5.06	0.83	91889
Aug-19	63.19	3.15	2.03	17.43	14.71	5.18	0.64	31995
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	63.32	2.57	2.31	15.79	14.86	4.88	0.90	336660

मनोहरपुर

फाइन्स

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	62.95	2.74	2.44	5.18	32.72	5.18	0.89	338554
APP 19-20	63.00			5.00	40.00			375000
Apr-19	62.69	2.66	2.37	6.26	34.42	5.03	0.89	35806
May-19	62.97	2.42	2.46	7.37	37.99	4.89	1.02	37045
Jun-19	62.74	3.06	2.36	4.18	29.32	5.43	0.77	23826
Jul-19	62.40	3.20	2.40	5.00	38.00	5.60	0.75	6347
Aug-19	63.13	3.26	1.56	5.23	29.48	4.82	0.48	16508
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.83	2.78	2.29	5.98	34.02	5.06	0.82	119532

काल्टा

फाइन्स

	Fe	SiO2	Al2O3	OS	US	Al+Si	Al/Si	PLANT RCT
Act 18-19	63.03	2.51	2.12	5.94	33.51	4.63	0.85	784000
APP 19-20	63.00	2.40	2.50	5.00	40.00	4.90	1.04	1071000
Apr-19	62.98	2.58	2.19	8.31	35.88	4.77	0.85	96577
May-19	62.92	2.39	2.44	7.95	37.65	4.84	1.02	107867
Jun-19	62.82	2.54	2.39	7.12	37.48	4.93	0.94	45255
Jul-19	62.83	2.60	2.36			4.96	0.91	30255
Aug-19	62.95	2.70	2.15			4.85	0.80	7725
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.91	2.51	2.33	7.94	36.93	4.84	0.93	287679

ગ્રણવત્તા :: બોકારો

BLEND

લમ્પ

	Fe	SiO ₂	Al ₂ O ₃	OS	US	Al+Si	Al/Si	RECPT
Act 18-19	63.09	2.72	2.09	15.93	16.56	4.81	0.77	2375715
APP 19-20	62.60	2.79	2.57	8.89	10.00	5.36	0.92	3145000
Apr-19	63.24	2.43	2.06	16.27	15.46	4.50	0.85	228569
May-19	63.05	2.39	2.41	16.57	16.20	4.80	1.01	232270
Jun-19	63.05	2.49	2.28	20.67	16.77	4.78	0.92	232875
Jul-19	62.91	2.67	2.35	17.14	15.25	5.02	0.88	257492
Aug-19	63.06	2.68	2.18	18.86	14.53	4.86	0.81	178194
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	63.06	2.53	2.26	17.84	15.69	4.79	0.90	1129400

ગ્રણવત્તા :: બોકારો

BLEND

ફાઇન્સ

	Fe	SiO ₂	Al ₂ O ₃	OS	US	Al+Si	Al/Si	RECPT
Act 18-19	61.99	3.65	2.70	6.61	33.32	6.35	0.74	4170000
APP 19-20	62.30	3.31	2.73	5.00	31.88	6.05	0.83	4751000
Apr-19	61.93	3.77	2.59	6.24	32.92	6.37	0.69	438676
May-19	61.60	3.98	2.96	6.70	33.77	6.94	0.74	359616
Jun-19	61.62	3.83	3.00	6.65	34.74	6.84	0.78	387573
Jul-19	61.40	4.32	2.86	6.70	34.89	7.18	0.66	349911
Aug-19	61.63	4.27	2.63	7.08	33.45	6.90	0.62	333842
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	61.65	4.02	2.81	6.65	33.92	6.82	0.70	1869618

ગ્રણવત્તા:: દૂર્ગાપૂર

BLEND

લમ્પ

	Fe	SiO ₂	Al ₂ O ₃	OS	US	Al+Si	Al/Si	RECPT
Act 18-19	62.32	2.94	1.87	21.89	14.50	4.81	0.64	1408030
APP 19-20	62.50	2.83	2.45	10.00	10.00	5.28	0.87	1720000
Apr-19	63.22	1.75	2.00	21.81	13.91	3.75	1.14	107785
May-19	62.08	2.95	1.84	17.51	13.40	4.79	0.62	111280
Jun-19	62.45	3.06	1.95	21.15	12.39	5.01	0.64	138970
Jul-19	60.31	5.87	1.77	25.02	11.26	7.63	0.30	105105
Aug-19	60.60	4.68	1.83	28.70	9.63	6.51	0.39	134030
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	61.73	3.66	1.88	22.97	12.04	5.54	0.51	597170

ગ્રણવત્તા:: દૂર્ગાપૂર

BLEND

ફાઇન્સ

	Fe	SiO ₂	Al ₂ O ₃	OS	US	Al+Si	Al/Si	RECPT
Act 18-19	62.62	3.19	2.37	4.79	44.77	5.56	0.74	2538767
APP 19-20	62.48	2.96	2.77	5.00	32.20	5.73	0.94	2681000
Apr-19	62.01	3.07	3.10	6.63	42.39	6.17	1.01	189194
May-19	62.39	3.19	2.45	6.29	44.54	5.64	0.77	259904
Jun-19	62.24	3.52	2.53	7.02	44.93	6.05	0.72	240565
Jul-19	61.64	4.76	2.44	6.71	43.19	7.20	0.51	223860
Aug-19	61.74	4.00	2.40	7.98	40.79	6.39	0.60	220415
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.02	3.71	2.56	6.91	43.27	6.27	0.69	1133938

गुणवत्ता :: राउरकेला

BLEND

लम्प

	Fe	SiO ₂	Al ₂ O ₃	OS	US	Al+Si	Al/Si	RECPT
Act 18-19	62.84	2.99	2.60	14.29	19.37	5.59	0.87	2462000
APP 19-20	62.67	2.70	2.47	7.94	10.00	5.16	0.91	2090000
Apr-19	62.82	3.02	2.53	15.82	18.42	5.55	0.84	206741
May-19	62.80	2.61	2.99	16.81	19.24	5.61	1.15	230306
Jun-19	62.81	2.92	2.74	15.62	19.54	5.66	0.94	179032
Jul-19	62.74	3.45	2.31	18.08	17.12	5.76	0.67	215981
Aug-19	62.16	4.28	2.33	17.78	19.33	6.61	0.54	156730
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.72	3.07	2.68	16.98	18.59	5.75	0.87	988790

गुणवत्ता :: राउरकेला

BLEND

फाईन्स

	Fe	SiO ₂	Al ₂ O ₃	OS	US	Al+Si	Al/Si	RECPT
Act 18-19	62.19	3.21	2.62			5.83	0.82	2764000
APP 19-20	62.34	3.38	2.63	5.00	32.66	6.01	0.78	4704000
Apr-19	62.28	3.20	2.55			5.75	0.80	374287
May-19	62.24	2.92	2.86			5.77	0.98	400258
Jun-19	62.09	3.21	2.79			6.00	0.87	291317
Jul-19	61.80	4.01	2.41			6.42	0.60	296807
Aug-19	61.25	5.06	2.21			7.26	0.44	245733
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.00	3.56	2.59			6.15	0.73	1608402

गुणवत्ता :: बर्नपुर इस्पात संयंत्र

BLEND

लम्प

	Fe	SiO ₂	Al ₂ O ₃	OS	US	Al+Si	Al/Si	RECPT
Act 18-19	62.97	3.14	2.04	22.50	2.50	5.18	0.65	1160000
APP 19-20	62.58	2.77	2.30	10.00	10.00	5.06	0.83	1525000
Apr-19	63.31	2.92	2.44	8.28	4.02	5.35	0.84	86829
May-19	62.96	3.67	2.26	11.43	4.99	5.94	0.62	80280
Jun-19	64.09	2.28	1.96	23.14	4.59	4.24	0.86	60360
Jul-19	63.67	3.02	1.67	23.75	5.65	4.68	0.55	101158
Aug-19	63.04	3.82	1.76	29.30	6.80	5.57	0.46	112920
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	63.37	3.22	1.99	19.80	5.36	5.21	0.62	441547

गुणवत्ता :: बर्नपुर इस्पात संयंत्र

BLEND

फाईन्स

	Fe	SiO ₂	Al ₂ O ₃	OS	US	Al+Si	Al/Si	RECPT
Act 18-19	62.28	3.76	2.84	6.57	43.68	6.60	0.76	2760000
APP 19-20	62.50	2.97	2.73	5.00	36.91	5.70	0.92	3184000
Apr-19	62.43	3.66	3.07	6.59	50.09	6.73	0.84	173135
May-19	62.92	3.70	2.44	7.87	41.98	6.14	0.66	196080
Jun-19	62.99	3.33	2.45	9.68	38.93	5.78	0.73	293700
Jul-19	63.13	3.47	2.11	6.87	41.25	5.58	0.61	273411
Aug-19	62.33	4.25	2.36	7.31	41.39	6.61	0.56	284340
Sep-19								
Oct-19								
Nov-19								
Dec-19								
Jan-20								
Feb-20								
Mar-20								
CUMML	62.77	3.68	2.44	7.77	42.11	6.11	0.66	1220666

तुलसीदामर

BF DOLOMITE

गुणवत्ता :: बोकारो इस्पात संयंत्र

कुटेश्वर

BF LIMESTONE

	CaO	MgO	SiO ₂	OS	US
Act 18-19	28.7	18.79	5.17	5.05	9.06
APP 19-20	30.00	18.00	5.00	5.00	10.00
Apr-19	26.91	17.50	5.22	4.10	7.93
May-19	25.18	17.65	4.83	4.30	8.30
Jun-19	26.74	17.60	5.94	3.93	7.25
Jul-19	26.49	18.40	5.40	4.75	7.88
Aug-19	26.47	17.99	5.96	4.68	9.05
Sep-19					
Oct-19					
Nov-19					
Dec-19					
Jan-20					
Feb-20					
Mar-20					
CUMML	26.51	17.93	5.58	4.40	8.01

	CaO	MgO	SiO ₂	OS	US
Act 18-19	43.7	2.42	3.53	6.85	22.69
APP 19-20	50.00	2.25	3.50	5.00	5.00
Apr-19	44.23	2.17	3.39	10.16	14.07
May-19	42.58	2.81	3.42	10.98	15.28
Jun-19	43.23	3.82	3.54	9.03	18.40
Jul-19	44.14	3.93	3.61	12.77	14.68
Aug-19	44.27	3.96	3.54	10.77	16.23
Sep-19					
Oct-19					
Nov-19					
Dec-19					
Jan-20					
Feb-20					
Mar-20					
CUMML	43.77	3.40	3.51	10.89	15.64

तुलसीदामर

BF DOLOMITE

गुणवत्ता :: बिलाई इस्पात संयंत्र

कुटेश्वर

BF LST

	CaO	MgO	SiO ₂	OS	US
Act 18-19	28.5	17.64	8.24	33.8	9.24
APP 19-20	30.00	18.00	5.00	5.00	10.00
Apr-19	28.84	18.19	7.38	20.84	10.39
May-19	28.46	17.85	8.02	26.50	13.50
Jun-19	27.19	18.89	8.07	23.60	8.00
Jul-19	28.76	18.35	7.30	27.03	9.87
Aug-19					
Sep-19					
Oct-19					
Nov-19					
Dec-19					
Jan-20					
Feb-20					
Mar-20					
CUMML	28.39	18.35	7.60	27.33	10.38

	CaO	MgO	SiO ₂	OS	US
Act 18-19	49.8	2.26	3.9	9.19	18.3
APP 19-20	50.00	2.25	3.50	5.00	5.00
Apr-19	50.13	2.04	3.84	8.10	16.00
May-19	49.09	2.51	4.18	8.66	15.94
Jun-19	50.37	1.95	3.68	8.93	12.33
Jul-19	50.40	1.85	3.79	8.80	23.00
Aug-19	50.40	1.85	3.79	8.80	23.00
Sep-19					
Oct-19					
Nov-19					
Dec-19					
Jan-20					
Feb-20					
Mar-20					
CUMML	50.03	2.10	3.81	8.46	17.34



PROJ. NO.	UTILIS. UPTO Mar'19	UTILIS. UPTO Aug-19	MAKE / TYPE	CAP	DATE OF COMMISSION	August-19										2019-2020											
						SCH. HRS.	B/D HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT%	NET UT%	FEED RATE	HSD/HR	SCH. HRS.	B/D HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT%	NET UT%	FEED RATE	HSD/ HR		
EXCAVATORS [4]																											
BE-18	23133	23133	BEML,BE-1000	4.5CU.M	31-Jul-08	620	620										3060	3060									
EX-20	24918	25704	KOMATSU PC2000-8	9.5 CU.M	17-Feb-12	620	8	470	612	142	98.7	23.2	22.9	5.77	75.35	3060	207	2067	2853	786	93.2	27.5	25.7	6.61	76.40		
EX-22	14347	16201	KOMATSU PC2000-8	9.5 CU.M	11-Aug-15	620	25	226	595	369	96.0	62.0	59.5	5.12	68.02	3060	75	1132	2986	1854	97.6	62.1	60.6	5.85	63.73		
EX-23	15098	17010	KOMATSU PC2000-8	9.5 CU.M	28-Sep-15	620	12	238	608	370	98.1	60.9	59.7	5.02	74.86	3060	106	1042	2954	1912	96.5	64.7	62.5	5.12	61.53		
						TOTAL	1860	45	934	1815	881	97.6	48.5	47.4	5.18	72.08	9180	388	4241	8793	4552	95.8	51.8	49.6	5.67	64.99	
DUMPERS [8]																											
DUM-82	26594	26594	BEML,210M	50Te	13-Apr-04	620	620									-	-	2460	2460								
DUM-84	24408	24408	BEML,210M	50Te	6-Apr-07	620	620									-	-	2460	2460								
DUM-85	21444	21444	BEML,210M	50Te	6-Apr-07	620	620									-	-	2460	2460								
DUM-86	21914	21914	BEML,210M	50Te	10-Jul-07	620	620									-	-	2460	2460								
						TOTAL	2480	2480										9840	9840								
DUM-87	13614	13802	BEML,BH-85	85Te	30-Mar-08											-	-	2440	1641	611	799	188	32.7	23.5	7.7	4.39	43.94
DUM 88	29181	30106	KOMATSU HD785-7	100 Te	23-Jul-10	620	159	202	461	259	74.35	56.18	41.77	3.33	37.45	3060	1446	689	1614	925	52.7	57.3	30.2	3.53	39.41		
DUM 89	34269	35258	KOMATSU HD785-7	100Te	23-Jul-10	620	364	121	256	135	41.29	52.73	21.77	4.03	40.37	3060	1011	1060	2049	989	67.0	48.3	32.3	3.84	37.51		
DUM-91	18341	18802	CAT 777D	100T	2-Feb-12	620	18	493	602	109	97.10	18.11	17.58	4.56	49.08	3060	923	1676	2137	461	69.8	21.6	15.1	5.07	46.05		
DUM-92	20471	21106	CAT 777D	100T	2-Feb-12	620	470	139	150	11	24.19	7.33	1.77	7.55	136.36	3060	1227	1198	1833	635	59.9	34.6	20.8	4.21	37.31		
DUM-93	8194	9626	BEML BH-100	100T	2-May-15	620	86	252	534	282	86.13	52.81	45.48	2.96	41.84	3060	394	1234	2666	1432	87.1	53.7	46.8	3.41	44.78		
DUM-94	6521	7611	BEML BH-100	100T	2-May-15	620	111	265	509	244	82.10	47.94	39.35	3.37	50.00	3060	638	1332	2422	1090	79.2	45.0	35.6	3.84	46.87		
DUM-95	5381	6055	BEML BH-100S	100T	May 2016	620	53	366	567	201	91.45	35.45	32.42	4.59	40.30	3060	339	2047	2721	674	88.9	24.8	22.0	5.90	45.99		
						TOTAL	4340	1261	1838	3079	1241	70.94	40.31	28.59	3.68	43.59	21420	5978	9236	15442	6206	72.1	40.2	29.0	4.05	42.65	
DRILL [4]																											
DM-17	22677	22937	IR-ROTACOL-IDM-30	160mm	24-Mar-05	496	56	353	440	87	88.71	19.77	17.54	8.22	27.59	2448	1468	720	980	260	40.0	26.5	10.6	9.57	31.35		
DM-18	25867	26436	AC-ROTACOL-IDM-30	160mm	19-May-08	496	114	344	382	38	77.02	9.95	7.66	10.50	39.47	2448	599	1281	1849	569	75.5	30.7	23.2	9.66	27.02		
DM-19	18828	18828	AC-ROTACOL-IDM-30	160mm	14-Oct-09	496	496									2448	2448										
DM-20	10441	11258	AC-ROTACOL-IDM-30	160mm	Oct '14	496	78	289	418	130	84.27	30.98	26.11	8.64	33.59	2448	407	1224	2041	817	83.4	40.0	33.4	9.94	28.07		
						TOTAL	1984	744	986	1240	255	62.50	20.52	12.83	8.77	32.42	9792	4922	3225	4870	1646	49.7	33.8	16.8	9.79	28.22	
DOZER [6]																											
DOZ-29	18180	18180	BEML, D-355	410HP	11-Jun-04	496		496	496		100.0			-	-	2448	1952	496	496		20.3						
DOZ-30	21843	21866	BEML, D-355	410HP	8-Jul-07	496		496	496		100.0			-	-	2448	1924	501	524	23	21.4	4.4	0.9		36.96		
DOZ-31	19778	20149	BEML, D-355	410 HP	19-Feb-09	496	94	342	402	60	81.0	14.9	12.1		28.33	2448	1074	1003	1374	371	56.1	27.0	15.2		35.85		
DOZ-32	6614	6826	BEML, D-355	410 HP	17-Apr-15	496	244	218	252	34	50.8	13.5	6.9		45.59	2448	1679	557	769	212	31.4	27.6	8.7		40.57		
DOZ-33	4439	5480	BEML, D-356	410HP	22-Sep-17	496	72	242	424	183	85.5	43.0	36.8		38.90	2448	312	1095	2136	1041	87.3	48.7	42.5		39.53		
DOZ-34	630	1712	BEML, D-356	410HP	31-Dec-18	496	56	241	440	199	88.7	45.2	40.1		35.18	2448	241	1125	2207	1082	90.2	49.0	44.2		34.29		
						TOTAL	2976	466	2035	2510	476	84.3	18.9	16.0		36.49	14688	7182	4777	7506	2729	51.1	36.4	18.6		37.01	
PAY LOADER [1]																											
FEL-4	12729	13037	KOMATSU WA-470-3	2.9 CU.M	16-Jan-09	248		170	248	78	100.00	31.45	31.45			14.10	1232	356	568	876	308	71.1	35.2	25.0		15.02	
MPTOR GRADER [3]																											
MG-7	6322	6322	BEML, BG825	280HP	10-Jul-91	248	248									-	-	1224	1224								
MG-8	3088	3125	BEML, BG825	280HP	19-May-12	248		248	248		100.00					-	-	1224	253	934	971	37	79.33	3.81	3.02		39.19
MG-9		208	BEML, BG825	280HP	5-Mar-19	248		194	248	54	100.00	21.77	21.77			13.89	1224	40	977	1184	208	96.7	17.53	16.95		19.04	
						TOTAL	744	248	442	496	54	66.67	10.89	7.26		18.52	3672	1517	1911	2155	245	58.69	11.35	6.66		22.09	
WATER TANKER [3]																											
WT-83	20855	20862	BEML, WS-28-2	28KL	21-Mar-05	620	620									-	-	3060	3053		7	7	0.2	100.0	0.2		
WT-90	12967	13326	BEML, WS-28-2	28KL	Mar '11	620		620	620		100.0					-	-	3060	622	2079	2438	359	79.7	14.7	11.7		28.38
WT-96	248	564	BEML, WS-28-2	28KL	17-Feb-19	620		608	620	12	100.0	1.9	1.9			12.50	3060	384	2360	2676	316	87.5	11.8	10.3		27.91	
						TOTAL	1860	620	1228	1240	12	66.7	1.0	0.6			12.50</td										



PROJ. NO.	UTILIS. UPTO Mar'19	UTILIS. UPTO Aug-19	MAKE / TYPE	CAPACITY	DATE OF COMM	August-19										2019-2020											
						SCH. HRS.	B/D HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT %	UT% net	F/RAT E	HSD/ HR	SCH. HRS.	B/D HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT %	UT% net	F/RAT E	HSD/ HR		
EXCAVATORS 4.5 CUM. [1]																											
BE-11	36959	36965	BEML	4.5 CUM	30-09-2005	744	744									-	-	3672	3605	62	67	6	1.8	8.2	0.1	4.4	36
EXCAVATORS 9.5 CUM. [3]																											
PC-14	31444	33087	KOMATSU	9.5 CUM	20-01-2012	744	138	248	606	358	81.5	59.1	48.1	6.6	84	3672	740	1290	2933	1643	79.9	56.0	44.7	6.7	88		
PC-17	16137	17840	KOMATSU	9.5 CUM	24-07-2015	744	159	273	585	312	78.6	53.3	41.9	6.1	84	3672	909	1060	2763	1703	75.2	61.6	46.4	6.8	88		
PC-18	29267	30639	KOMATSU	9.5 CUM	11-07-2016	744	195	223	549	326	73.8	59.4	43.8	6.3	86	3672	916	1385	2757	1372	75.1	49.8	37.4	7.1	88		
						TOTAL	2232	492	744	1740	996	78.0	57.2	44.6	6.3	85	11016	2564	3734	8452	4718	76.7	55.8	42.8	6.9	88	
DUMPER,50 TE [2]																											
D - 49	28071	28167.5	BEML	50 TON	05-03-2007	744	578	126	166	41	22.3	24.4	5.4	0.1	22	3672	2961	615	711	97	19.4	13.6	2.6	0.6	24		
D - 50	23971	23971	BEML	50 TON	15-04-2007	744	744									-	-	3672	3672						-	-	-
						TOTAL	1488	1322	126	166	41	11.2	24.4	2.7	0.1	22	7344	6633	615	711	97	9.7	13.6	1.3	0.6	24	
DUMPER,100 TE [7]																											
D - 51	29346	31047	KOMATSU	100 TON	01-09-2010	744	145	187	600	413	80.6	68.9	55.5	3.8	38	3672	1012	960	2661	1701	72.5	63.9	46.3	3.9	40		
D - 52	30670	32223	KOMATSU	100 TON	01-09-2010	744	676	28	69	41	9.2	59.9	5.5	4.0	43	3672	1282	837	2390	1553	65.1	65.0	42.3	4.1	41		
D - 53	29377	31189	KOMATSU	100 TON	01-09-2010	744	171	194	574	380	77.1	66.3	51.1	3.8	40	3672	971	890	2702	1812	73.6	67.1	49.3	3.9	40		
D - 54	15343	15439	CATER	100 TON	06-02-2012	744	744									-	-	3672	3183	393	489	96	13.3	19.6	2.6	3.4	44
D - 55	17913	18792	CATER	100 TON	06-02-2012	744	187	350	558	208	74.9	37.3	28.0	3.4	45	3672	583	2211	3090	879	84.1	28.5	23.9	3.8	45		
D - 56	7648	9004	BEML	100 TON	09-05-2016	744	107	259	637	378	85.6	59.3	50.8	3.6	41	3672	1027	1289	2645	1356	72.0	51.3	36.9	3.9	43		
D - 57	7846	8880	BEML	100 TON	09-05-2016	744	109	350	636	286	85.4	45.0	38.4	3.6	48	3672	1063	1576	2610	1034	71.1	39.6	28.2	3.4	45		
						TOTAL	5208	2137	1366	3072	1706	59.0	55.5	32.8	3.7	42	25704	9119	8154	16585	8431	64.5	50.8	32.8	3.8	42	
DRILL [4]																											
DM - 7	24127	24423	IR	6 " DIA	01-04-2005	372	222	94	151	57	40.5	37.5	15.2	2.5	33	1836	1010	530	826	297	45.0	35.9	16.1	5.9	32		
DM - 8	21406	22340	IR	6 " DIA	05-05-2008	372	53	109	320	211	85.9	65.9	56.6	6.2	35	1836	421	481	1415	934	77.1	66.0	50.9	9.2	33		
DM - 9	19933	20928	IR	6 " DIA	16-09-2009	372	72	98	300	202	80.6	67.3	54.3	14.5	33	1836	378	463	1458	995	79.4	68.2	54.2	12.5	33		
DM - 10	12394	13376	IR	6 " DIA	06-11-2014	372	87	68	286	218	76.7	76.4	58.6	12.0	35	1836	428	427	1409	982	76.7	69.7	53.5	12.4	33		
						TOTAL	1488	433	369	1056	687	70.9	65.1	46.2	10.2	34	7344	2237	1900	5108	3208	69.5	62.8	43.7	10.9	33	
DOZER [7]																											
DOZ-23	21979	22218	BEML	410 HP	02-10-2008	744	737	7	7		0.9					-	3672	2334	1100	1338	239	36.4	17.8	6.5		33	
DOZ-24	18151	18877	BEML	410 HP	06-04-2010	744	149	368	595	227	80.0	38.2	30.5		33	3672	1116	1830	2557	727	69.6	28.4	19.8		33		
DOZ-25	8260	8592	BEML	410 HP	28-12-2010	744	259	375	485	111	65.2	22.8	14.9		35	3672	1672	1668	2000	332	54.5	16.6	9.0		35		
DOZ-26	16680	16997	BEML	410 HP	16-05-2011	744	351	321	394	73	52.9	18.6	9.8		35	3672	2145	1210	1527	318	41.6	20.8	8.6		35		
DOZ-27	9666	9905	BEML	410 HP	28-04-2015	744	163	567	581	15	78.1	2.5	1.9		34	3672	1554	1879	2118	239	57.7	11.3	6.5		35		
DOZ-28	3029	3768	BEML	410HP	31-03-2018	744	110	584	634	51	85.2	8.0	6.8		35	3672	760	2174	2913	739	79.3	25.4	20.1		34		
DOZ-29	519	1803	BEML	410HP	19-12-2018	744	183	316	562	246	75.5	43.7	33.0		33	3672	882	1507	2790	1284	76.0	46.0	35.0		33		
						TOTAL	5208	1951	2536	3257	721	62.5	22.1	13.8		34	25704	10462	11366	15242	3876	59.3	25.4	15.1		34	
PAY LOADER [1]																											
PL - 03	3985		HYUNDAI	3.7 CU.M	18-09-2012	744	618	56	126	70	16.9	55.6	9.4		24	3672	2992	417	680	263	18.5	7.2	38.7				
BACK HOE [3]																											
BE-12A	22015	22716	BEML	1.2 CUM	Nov'08	744	193	324	551	228	74.1	41.3	30.6		25	3672	2099	872	1573	701	42.8	44.6	19.1		24		
HT-15	18637	19851	TCECL	1.5 CUM	03-10-2012	744	124	274	621	347	83.4	55.9	46.6		24	3672	1091	1367	2581	1214	70.3	47.0	33.1		24		
HT-16	12349	13132	TCECL	1.5 CUM	01-12-2014	744	744								-	-	3672	2232	657	1440	783	39.2	54.4	21.3		24	
						TOTAL	2232	1061	597	1172	575	52.5	49.0	25.7			11016	5422	2896	5594	2698	50.8	48.2	24.5		24	
WATER TANKER [3]																											
WT - 05	18960	19730	BEML	28 KL	15.02.07	744	212	469	532	63	71.5	11.8	8.5	0.7	22	3672	1002	1900	2670	771	72.7	28.9	21.0	0.6	23		
WT - 06	11002	11344	BEML	28 KL	17-08-2012	744	130	552	614	62	82.5	10.1	8.3	0.6	22	3672	2008	1323	1665	342	45.3	20.5	9.3	0.7	23		
WT - 45	31622	31885	BEML	MODIFIED	29-09-2004	744	107	144	637	493	85.6	77.4	66.3			-	2184	1343	579	842	263</td						



PROJ. NO.	UTILIS. UPTO Mar'19	UTILIS. UPTO Aug-19	MAKE / TYPE	CAPACITY	DATE OF COMMISSION.	August-19										2019-2020										
						SCH. HRS.	B/D HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT%	NET UT%	FEED RATE	HSD/Hr	SCH. HRS.	B/D HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT%	NET UT%	FEED RATE	HSD/ HR	
EXCAVATORS [6]																										
EX-25	33609	33617	BEML PC-1000(D)	4.5 CuM	21-Jun-04												2184	2176		8	8	0.37	100.00	0.37		
EX-26	31002	31340	BEML PC-1000(D)	4.5 CuM	24-Jun-05	744		744	744		100.0			-	-	3672	295	3040	3378	338	91.98	10.01	9.20		37.43	
						SUB TOTAL	744		744	744		100.0					5856	2471	3040	3386	346	57.81	10.22	5.91		36.57
EX-28	15660	15783	BE-1600	7.5 Cu.m	22-Jun-10	744	728	9	16	7	2.2	43.8	0.9	3.86	297.1	3672	2963	585	709	124	19.31	17.45	3.37	0.55	59.78	
EX-29	25506	26681	KOMATSU PC-2000-8	9.5 Cu.M	01-Nov-10	744	101	330	643	313	86.4	48.7	42.1	4.53	82.2	3672	714	1783	2958	1175	80.56	39.74	32.01	4.59	80.82	
EX-30	15028	16749	KOMATSU PC-2000-8	9.5 Cu.M	03-Aug-15	744	86	403	658	256	88.4	38.8	34.3	5.05	78.1	3672	268	1683	3404	1721	92.69	50.56	46.87	4.94	79.02	
EX-31	13363	14981	KOMATSU PC-2000-8	9.5 Cu.M	05-Sep-15	744	13	374	732	358	98.3	48.9	48.1	5.09	84.3	3672	255	1799	3417	1618	93.05	47.36	44.07	5.23	79.15	
						SUB TOTAL	2976	928	1116	2049	933	68.8	45.5	31.4	4.88	83.5	14688	4200	5849	10488	4638	71.40	44.23	31.58	4.83	79.01
						TOTAL	3720	928	1860	2793	933	75.1	33.4	25.1	4.88	83.5	20544	6671	8889	13873	4984	67.53	35.93	24.26	4.50	76.06
DUMPER,50 TE [2]																										
HP-30	17659	17659	C.I.773D(I)	50 T	01-Mar-06	744	744							-	-	3672	3616	56	56		1.53					
HP-32	23497	23834	BEML BH-50M	50 T	06-Mar-08	744	744							-	-	3672	1169	2167	2504	337	68.18	13.46	9.18		14.91	
						TOTAL	1488	1488								7344	4785	2223	2560	337	34.85	13.17	4.59		14.91	
DUMPER,100 TE [8]																										
HP-32A	29825	30890	KOMATSU HD785-7	100 T	22-Jun-10	744	731	9	13	4	1.7	30.8	0.5	3.25		3672	1984	624	1688	1064	45.97	63.04	28.98	3.58	35.77	
HP-34	26579	26587	KOMATSU HD785-7	100 T	22-Jun-10	744	744							-	-	3672	3656	8	16	8	0.44	50.00	0.22			
HP-35	15842	16442	BEML BH-100	100 T	22-Jun-10	744	292	305	452	147	60.8	32.5	19.8	3.17	33.9	3672	1690	1381	1982	601	53.97	30.31	16.36	1.67	19.63	
HP-36	11757	12096	BEML BH-100	100 T	22-Jun-10	744	453	201	291	90	39.1	30.9	12.1	2.98	33.3	3672	2025	1308	1647	339	44.84	20.57	9.23	1.11	14.05	
HP-37	19607	21163	CAT 777D	100 T	25-Jan-12	744	102	250	642	392	86.3	61.1	52.7	3.61	32.9	3672	773	1343	2899	1556	78.95	53.69	42.39	3.43	32.33	
HP-38	8907	10669	BEML BH-100S	100 T	03-May-16	744	43	265	701	436	94.2	62.2	58.6	3.61	33.1	3672	275	1635	3397	1762	92.51	51.87	47.98	3.29	33.34	
HP-39	8614	9603	BEML BH-100S	100 T	03-May-16	744	330	181	414	233	55.6	56.3	31.3	3.51	38.7	3672	1686	996	1986	989	54.08	49.82	26.94	3.46	33.69	
HP-40	9440	10282	BEML BH-100S	100 T	03-May-16	744	744							-	-	3672	1916	914	1757	842	47.83	47.95	22.94	3.14	38.66	
						TOTAL	5952	3439	1211	2513	1302	42.2	51.8	21.9	3.50	34.1	29376	14005	8209	15371	7162	52.32	46.59	24.38	3.13	32.06
DRILL [4]																										
DM-11	17159	17750	AC-ROTACOL-IDM-30	160mm	14-Feb-08	496	81	241	415	174	83.7	41.9	35.1	12.89	41.0	2448	933	923	1515	592	61.87	39.05	24.16	12.39	33.82	
DM-12	17912	18372	AC-ROTACOL-IDM-30	160mm	12-Aug-09	496	173	201	323	122	65.1	37.8	24.6	12.20	28.7	2448	914	1075	1535	459	62.68	29.93	18.76	13.67	30.96	
DM-12A	16453	16907	AC-ROTACOL-IDM-30	160mm	22-Mar-11	496	57	380	439	59	88.5	13.4	11.9	13.85	38.1	2448	342	1651	2106	454	86.01	21.58	18.56	13.46	30.48	
DM-14	9768	10782	AC-ROTACOL-IDM-30	160mm	19-Nov-14	496	54	268	442	174	89.1	39.4	35.1	12.90	37.4	2448	357	1077	2092	1014	85.44	48.49	41.43	15.22	34.77	
						TOTAL	1984	365	1090	1619	529	81.6	32.7	26.7	12.84	36.7	9792	2546	4727	7246	2519	74.00	34.77	25.73	13.96	33.08
DOZER [8]																										
DOZ-22	16080	16088	BEML BD355	410 HP	06-Jul-07	496	496							-	-	2448	2432	8	16	8	0.7	50.0	0.3			
DOZ-23	12013	12351	BEML BD355	410 HP	27-Aug-08	496	496							-	-	2448	1433	677	1015	338	41.5	33.3	13.8		23.6	
DOZ-24	13560	13633	BEML BD355	410 HP	09-Mar-10	496	496							-	-	2496	2060	363	436	73	17.5	16.7	2.9		25.5	
DOZ-25	11535	12144	BEML BD355	410 HP	09-Mar-10	632	331	260	301	41	47.6	13.6	6.5		58.5	2816	799	1408	2017	609	71.16	30.2	21.6		45.8	
DOZ-26	7962	8598	BEML BD355	410 HP	03-May-14	528	98	291	430	139	81.4	32.3	26.3		25.2	2600	767	1196	1833	637	70.5	34.7	24.5		35.2	
DOZ-27	6542	7034	BEML BD355	410 HP	03-May-14	616	109	367	507	140	82.3	27.6	22.7		42.1	2952	640	1821	2313	492	78.3	21.3	16.7		48.9	
DOZ-28	6479	7164	BEML BD355	410 HP	26-Apr-16	744	112	534	632	98	84.9	15.5	13.2		57.7	3504	202	2617	3302	686	94.2	20.8	19.6		39.1	
DOZ-29	682	682	BEML BD355	410 HP	15-Apr-19	520	85	228	435	207	83.7	47.6			34.3	2392	151	1559	2241	682	93.7	30.4	28.5		40.9	
						TOTAL	4528	2223	1680	2305	625	50.9	27.1	13.8		39.3	21656	8484	9648	13172	3524	60.8	26.8	16.3		39.4
PAY LOADER [3]																										
PL-20	14405	14542	Kawasaki, 90Ziv-2	256 HP	26-Aug-09	744	744							-	-	3672	2491	1044	1181	137	32.16	11.61	3.73		28.12	
PL-22	10573	10573	Hyundai-HI770-7A	280 HP	26-May-10	744	744							-	-	3672	3672									
PL-23	9742	11147	Kawasaki, 90ZV	257 HP	07-Oct-15	744	35	382	709	327	95.3	46.1	44.0		22.4	3672	69	2197	3603	1406	98.12	39.02	38.28		23.58	
						TOTAL	2232	1523	382	709	327	31.8	46.1	14.7		22.4	11016	6232	3241	4784	1543	43.43	32.25	14.01		23.99
MOTOR GRADER [2]																										
MG-6	9102	9102	BEML BG 825	280 HP	04-Aug-08	496	496																			

BARSUA IRON MINES

Equipment Performance Report

SAIL-RMD

PROJ. NO.	UTILIS. UPTO Mar'19	UTILIS. UPTO Aug-19	MAKE / TYPE	CAP	DATE OF COMMISSION	August-19										2019-2020										
						SCH. HRS.	B/D HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT%	NET UT%	FEED RATE	HSD/H R	SCH. HRS.	B/D HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT%	NET UT%	FEED RATE	HSD/ HR	
EXCAVATORS [6]																										
EX-20	25868	26186	BEML,BE-1000	4.5 CuM	Mar-04	624	83	401	541	140	86.70	25.88	22	5.78	43.93	2544	405	1821	2139	318	84.1	14.9	12.5	5.70	44.2	
EX-22	19566	20035	BEML,BE-1000	4.5 CuM	22-Dec-08	624	57	483	567	84	90.87	14.81	13	6.21	45.83	2544	445	1630	2099	469	82.5	22.3	18.4	7.00	55.2	
EX-23	15937	15939	BEML, BE-1000	4.5CuM	18-Feb-10	624	624						-	-	2584	2580	2	4	2	0.2	50.0	0.1			450.0	
EX-27	2175	3191	BEML, BE-1000-1	4.5 CuM	19-Dec-17	624	20	467	604	137	96.79	22.68	22	5.95	60.22	2544	312	1216	2232	1016	87.7	45.5	39.9	7.24	63.4	
					TOTAL	2496	784	1351	1712	361	68.6	21.1	14.5	5.94	50.6	10216	3742	4669	6474	1805	63.4	27.9	17.7	6.90	58.3	
EX-21	18158	18158	TELCON,1200V-1018	5.9 CuM	28-May-07	624	624						-	-	2544	2544										
EX-24	12701	13185	BEML, BE-1600	7.5CuM	04-Aug-11	624	112	310	512	202	82.05	39.45	32	6.99	71.29	2520	1037	999	1483	484	58.8	32.6	19.2	6.84	75.5	
					TOTAL	1248	736	310	512	202	41.0	39.5	16.2	6.99	71.3	5064	3581	999	1483	484	29.3	32.6	9.6	20.90	75.5	
DUMPER,50 TE [5]																										
HPD-90	16619	17131	BEML,210M	50T	1-Apr-05	624	185	312	439	127	70.35	28.93	20.35	2.57	34.60	2584	372	1700	2212	512	85.6	23.1	19.8	2.91	32.3	
BH-93	24313	24398	BH-50 M	50T	1-Feb-08	624	134	438	490	52	78.53	10.61	8.33			2544	1033	1426	1511	85	59.4	5.6	3.3	4.92	46.5	
BH-94	22423	23087	BH-50 M	50T	22-Dec-08	624	113	280	511	231	81.89	45.21	37.02	2.50	28.90	2544	340	1540	2204	664	86.6	30.1	26.1	2.90	30.3	
BH-95	30907	30907	BH-50 M	50T	6-Feb-09	624	624						-	-	2520	2520										
BH-96	26092	26255	BH-50 M	50T	20-Aug-09	624	124	337	500	163	80.13	32.60	26.12	2.69	27.05	2520	2020	337	500	163	19.8	32.6	6.5	2.69	27.0	
BH-99	23409	23554	BH-50 M	50T	20-Feb-14	624		624	624		100.00			-	-	3096	85	2866	3011	145	97.3	4.8	4.7		18.8	
					TOTAL	3744	1180	1991	2564	573	68.48	22.35	15.30	2.60	30.98	15808	6370	7869	9438	1569	59.7	16.6	9.9	2.71	30.9	
DUMPER,60 TE [3]																										
HPD-101	4393	5808	BEML,BH-60	60 T	16-Nov-17	624	157	238	467	229	74.84	49.04	36.70	2.27	33.62	2520	384	721	2136	1415	84.8	66.2	56.2	2.58	34.7	
HPD-102	4119	5529	BEML,BH-60	60 T	23-Nov-17	624	284	116	340	224	54.49	65.88	35.90	2.34	35.04	2544	521	613	2023	1410	79.5	69.7	55.4	2.58	38.1	
HPD-103		1377	BEML,BH-60	61 T	08-May-19	624	63	160	561	401	89.90	71.48	64.26	2.33	31.92	2424	349	698	2075	1377	85.6	66.4	56.8	2.55	34.1	
					TOTAL	1872	504	514	1368	854	73.08	62.43	45.62	2.32	33.20	7488	1254	2032	6234	4202	83.3	67.4	56.1	1.74	35.6	
DUMPER,100 TE [2]																										
BH-97	10065	10128	BEML,BH-100	100 T	4-Aug-11	624	624						-	-	2520	1847	610	673	63	26.7	9.4	2.5	3.98	52.4		
BH-98	8133	8327	BEML,BH-100	100 T	04-Aug-11	624	63	528	561	33	89.90	5.88	5.29	2.67	38.58	2520	181	2145	2339	194	92.8	8.3	7.7	3.40	54.4	
					TOTAL	1248	687	528	561	33	44.95	5.88	2.64	2.67	38.58	5040	2028	2755	3012	257	59.8	8.5	5.1	3.54	53.9	
DRILL [3]																										
DM-7	23658	23678	AC - IDM-30	160mm	29-Jan-98	416	375	27	41	14	9.86	34.15	3.37	12.86	42.86	1680	1289	371	391	20	23.3	5.1	1.2	12.50	37.5	
DM-9	9778	9958	AC - IDM-30	160mm	30-Sep-09	416	152	257	264	7	63.46	2.65	1.68	18.57	71.43	1680	508	992	1172	180	69.8	15.4	10.7	17.78	41.9	
DM-10	5013	5413	AC - IDM-30	160mm	14-Jan-15	416	79	242	337	95	81.01	28.19	22.84	15.66	36.32	1680	303	977	1377	400	82.0	29.0	23.8	17.68	37.1	
					TOTAL	1248	606	526	642	116	51.44	18.07	9.29	15.50	39.22	5040	2100	2340	2940	600	58.3	20.4	11.9	17.53	38.6	
DOZER [5]																										
TR-36 (B/V)	14105	14105	BEML,D-155A	320 HP	23-Apr-05	624	624						-	-	3240	3216	24	24		0.7						
TR-37	14937	15732	BEML,D-155A	320 HP	22-Jun-07	624	54	421	570	149	91.35	26.14	23.88		40.44	3240	310	2135	2930	795	90.4	27.1	24.5		36.6	
TR-38	15963	16359	BEML, D-355	410 HP	16-Feb-10	624	132	401	492	91	78.85	18.50	14.58		26.92	2520	394	1730	2126	396	84.4	18.6	15.7		31.9	
TR-39	10311	10311	BEML, D-355	410 HP	10-Apr-12	624	624						-	-	2520	2360	160	160		6.3						
TR-40	5567	5818	BEML, D-355	410 HP	6-Jun-14	624	207	352	417	65	66.83	15.59	10.42		38.46	2520	800	1469	1720	251	68.3	14.6	10.0		41.5	
					TOTAL	3120	1641	1174	1479	305	47.40	20.62	9.78		35.98	14040	7080	5518	6960	1442	49.6	20.7	10.3		36.4	
PAY LOADER [2]																										
FEL-6	9566	9971	L&T KOMAT. WA-470-3	260 HP	21-Jan-09	312	33	241	279	38	89.42	12.18	13.62		17.24	1608	209	994	1399	405	87.0	28.9	25.2		18.6	
FEL-7	5982	6194	HYUNDAI	280 HP	27-Aug-11	312	20	218	292	74	93.59	23.72	25.34		17.68	1292	267	813	1025	212	79.3	20.7	16.4		17.2	
					TOTAL	624	53	459	571	112	91.51	19.61	17.95		17.53	2900	476	1807	2424	617	83.6	25.5	21.3		18.1	
MOTOR GRADER [1]																										
MG-6	7237	7409	BEML bt 825	280HP	14-Sep-02	416	111	246	305	59	73.32	14.18	19.34		22.03	1680	780	728	900	172	53.6	19.1	10.2		23.2	
WATER SPRINKLER [3]																										
WS-91	14105	14171	HM / WS-28	28KL	Nov-06	624	624						-	-	2520	1795	65									



EQUIPMENTS	UTILIS. UPTO Mar'19	UTILIS. UPTO Aug-19	MAKE / TYPE	CAPACITY	DATE OF COMMISSION	August-19										2019-2020										
						SCH. HRS.	DOWN HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT%	NET UT %	FEED RATE	HSD/ HR	SCH. HRS.	DOWN HRS.	IDLE HRS.	AVL. HRS.	UTL. HRS.	AV%	UT%	NET UT %	FEED RATE	HSD /HR	
EXCAVATORS[4]																										
D-12A	18064	18064	BE 1000(D)	4.5 CuM	27-Apr-08	744	744							-	-	3672	3672									
D-12	10821	11400	BE 1600	7.5 CuM	16-Feb-11	744	335	331	409	78	55.0	19.1	10.5	4.1	67.9	3672	2294	799	1378	579	37.5	42.0	15.8	3.9	58.7	
D-14	25243	27219	KOMATSU	9.5 CuM	06-Apr-12	744	80	246	664	418	89.2	63.0	56.2	4.4	88.3	3672	523	1173	3149	1976	85.8	62.8	53.8	5.9	88.8	
D-15	19415	20894	KOMATSU	9.5 CuM	31-Aug-15	744	122	264	622	358	83.6	57.6	48.1	5.7	82.1	3672	1201	992	2471	1479	67.3	59.9	40.3	4.2	78.3	
						TOTAL	2232	537	841	1695	854	75.9	50.4	38.3	4.9	83.8	11016	4018	2964	6998	4034	63.5	57.6	36.6	5.0	80.7
DUMPER,50 TE[3]																										
R/D-85	18557	18561	BEML-BH-50M	50 Te	Mar- 08	744	744							-	-	3672	3653	15	19	4	0.5	21.1	0.1			50.0
R/D-86	20058	20060	BEML-BH-50M	50Te	Sep-08	744	744							-	-	3672	3653	17	19	2	0.5	10.5	0.1			166.5
R/D-87	17443	17443	BEML-BH-50M	50Te	Dec-08	744	744							-	-	3672	3672									
						TOTAL	2232	2232								11016	10978	32	38	6	0.3	15.8	0.1			88.8
DUMPER,100 TE[6]																										
R/D-88	23684	23684	KOMAT.HD785-7	100 T	10-Sep-10	744	744							-	-	3672	3672									
R/D-89	28005	30043	KOMAT.HD785-7	100 T	10-Sep-10	744	351	93	393	300	52.8	76.3	40.3	2.6	51.0	3672	1252	382	2420	2038	65.9	84.2	55.5	2.6	54.3	
R/D-90	18166	20053	CAT 777D	100 T	25-Jan-12	744	98	198	646	448	86.8	69.3	60.2	2.9	46.3	3672	1372	413	2300	1887	62.6	82.0	51.4	2.6	51.2	
R/D-91	15754	16531	CAT 777D	100 T	25-Jan-12	744	404	98	340	242	45.7	71.2	32.5	2.3	53.7	3672	2720	175	952	777	25.9	81.6	21.2	2.1	58.0	
R/D-92	11283	12464	BEML- BH 100	100 T	27-May-15	744	386	121	358	237	48.1	66.2	31.9	2.2	53.0	3672	2032	459	1640	1181	44.7	72.0	32.2	2.9	59.0	
R/D-93	10157	11961	BEML - BH 100	100 T	10-Jun-15	744	118	222	626	404	84.1	64.5	54.3	2.6	57.0	3672	1231	637	2441	1804	66.5	73.9	49.1	2.8	57.6	
						TOTAL	4464	2101	732	2363	1631	52.9	69.0	36.5	2.6	51.9	22032	12279	2066	9753	7687	44.3	78.8	34.9	2.6	55.4
DRILL[4]																										
DM-10	16316	16945	IR-ROTACOL-IDM-30	160mm	Feb- 04	496	239	127	257	130	51.8	50.6	26.2	19.1	42.1	2448	1397	422	1051	629	42.9	59.8	25.7	19.0	36.9	
DM-12A	8475	8497	AC-ROTACOL-IDM-30	160mm	Sep-08	496	496							-	-	2448	2407	19	41	22	1.7	53.7	0.9	8.3		35.2
DM-14	14244	14709	AC-ROTACOL-IDM-30	160 mm	12-Sep-09	496	254	153	242	89	48.8	36.8	17.9	9.4	49.4	2448	1416	567	1032	465	42.2	45.1	19.0	16.2	41.6	
DM-15	6836	7313	AC-ROTACOL-IDM-30	160 mm	8-Dec-14	496	496							-	-	2448	1544	427	904	477	36.9	52.8	19.5	17.9	38.6	
						TOTAL	1984	1485	280	499	219	25.2	43.9	11.0	15.2	45.1	9792	6764	1435	3028	1593	30.9	52.6	16.3	17.7	38.7
DOZER[6]																										
DOZ-21	17420	17420	BEML D-355	410 HP	May- 03	496	496							-	-	2688	2688									
DOZ-22	16129	17861	BEML D-355	410 HP	Feb-04	496	123	20	373	353	75.2	94.6	71.2		31.3	2688	697	259	1991	1732	74.1	87.0	64.4		31.5	
DOZ-23	15463	16387	BEML D-355	410 HP	May-08	496	256	70	240	170	48.4	70.8	34.3		32.6	2688	1183	581	1505	924	56.0	61.4	34.4		28.1	
DOZ-24	13701	14038	BEML D-355	410 HP	Sep-08	496	343	23	153	130	30.8	85.0	26.2		30.9	2838	1900	601	938	337	33.1	35.9	11.9		32.5	
DOZ-25	8831	9461	BEML D-355	410 HP	25-Apr-14	496	111	240	385	145	77.6	37.7	29.2		29.7	2448	772	1046	1676	630	68.5	37.6	25.7		30.5	
DOZ-26	8631	9576	BEML D-355	410 HP	08-Sept-17	496	79	230	417	187	84.1	44.8	37.7		32.6	2448	613	890	1835	945	75.0	51.5	38.6		33.5	
						TOTAL	2976	1408	583	1568	985	52.7	62.8	33.1		31.5	15798	7853	3377	7945	4568	50.3	57.5	28.9		31.2
PAY LOADER[2]																										
PL-7	12758	12770	L&T KOMAT. WA-470-3	260 HP	21-Jan-09	744	744							-	-	3672	3615	45	57	12	1.6	21.1	0.3		16.7	
PL-8	4769	4769	Hyundai-hl770-7A	280 HP	01-Jun-10	744	744							-	-	3672	3672									16.7
						TOTAL	1488	1488								7344	7287	45	57	12	0.8	21.1	0.2			
Back Hoe [2]																										
BACK HOE-02	7965	7965	BEMLBE-300LC	1.2 CU.M	May-09	744	744							-	-	3672	3672									
BACK HOE-03	4384	5458	BEMLBE-300LC	1.25 CU.M	25-Sep-13	744	744							-	-	3672	2359	240	1313	1074	35.8	81.8	29.2		14.0	
						TOTAL	1488	1488								7344	6031	240	1313	1074	17.9	81.8	14.6			
Water Sprinkler [2]																										
WT-5	15126	15639	WS-28	28 KL	May-05	744	496	248	248		33.3			-	-	2696	961	1222	1735	513	64.4	29.6	19.0		14.9	
WT-6	5923	6049	BEML,WS 28-2	28 KL	Jan-09	744	1	739	743	4	99.9	0.5	0.5		49.3	2696	1397	1173	1299	126	48.2	9.7	4.7		14.4	
						TOTAL	1488	497	987	991	4	66.6	0.4	0.3		49.3	5392	2358	2395	3034	639	56.3	21.1	11.9		14.8
Motor Grader [2]																										
MG-6	4050	4054	BG 605	280HP	May-08	496	496							-	-	2448	2400	44	48	4	2.0	8.3	0.2		108.0	
MG-7	700	1381	BG 825		10-May-14	496	95	233	401	168	80.8	41.9	33.9		14.1											

EQUIPMENT AVAILABILITY & UTILISATION
Aug-19

EQPMT TYPE		KIRIBURU								MEGHAHATUBURU								BOLANI								GUA				UNIT IN %	
		NORM		MTH		2019-20		MTH		2019-20		MTH		2019-20		MTH		2019-20		MTH		2019-20		MTH		CUM					
		AV	UT	AV	UT	AV	UT	AV	UT	AV	UT	AV	UT	AV	UT	AV	UT	AV	UT	AV	UT	AV	UT	AV	UT	AV	UT				
DRILL	150 mm	70	70	63	21	50	34	71	65	70	63	82	33	74	35	51	18	58	20	25	44	31	53								
SHOVEL	HYD(D) ≤4.5 m ³	70	75							2	8	100		58	10	69	21	63	28												
	HYD(D) >4.5 m ³	85	80	98	49	96	52	78	57	77	56	69	46	71	44	41	39	29	33	76	50	64	58								
DUMPER	85/ 60 tn	65	75			33	24											73	62	83	67										
	50 tn	70	80					11	24	10	14					35	13	68	22	60	17			0	16						
	100 tn	85	80	71	40	72	40	59	56	65	51	42	52	52	47	45	6	60	9	53	69	44	79								
DOZER		70	70	84	19	51	36	63	22	59	25	51	27	61	27	47	21	50	21	53	63	50	57								
CRUSHING PLANT		85	85					91	80	92	70	91	52	91	53																
SCREENING PLANT		85	85					79	77	87	65	90	78	90	74																
OHP		85	85	88	93	88	94	86	77	92	69					95	40	94	46	93	91	93	88								

Consumption of Key Consumables in 2019-20
Kiriburu

Item	HSD			Expl	Power	Lubricant								
Unit	(in Liter)			(in kg)	(in KWH)	(in Liter)	DEPTT ROM	CONT ROM	DEPTT OB	CONT OB	EXPL	Ltr/Te	POWER	LUB
NORM	MINES	DGSET	TOTAL								0.12	0.45	4.2	25
2015-16	2021760	758860	2780620	585470	31933017	107099	3648780	178245	2088990	201910	0.10	0.47	5.40	17.95
2016-17	2177112	702490	2879602	573840	31702875	101640	3891780	242370	2663910	0	0.08	0.44	4.66	15.36
2017-18	2109898	573577	2683475	515422	30594993	92150	3979790	215830	1568970	863256	0.08	0.46	5.31	15.84
2018-19	1956167	446003	2402170	413826	31857068	83816	3650940	234000	1002060	349644	0.08	0.50	6.52	17.47
2019-20	710035	141518	851553	148094	11181600	30240	1515840	125130	682830	49192	0.06	0.38	4.81	13.49
Apr-19	153128	23205	176333	31340	2212440	1050	264510	40050	144360	28000	0.07	0.41	4.93	2.47
May-19	131458	26608	158066	29170	2272880	3780	260010	45000	187560	21192	0.06	0.34	4.61	8.14
Jun-19	103267	57595	160862	34315	2151160	10920	330630	30000	157950	0	0.07	0.32	4.15	22.01
Jul-19	165754	20280	186034	28627	2272560	8190	340200	10080	102600	0	0.06	0.42	5.02	18.39
Aug-19	156428	13830	170258	24642	2272560	6300	320490	0	90360	0	0.06	0.41	5.53	15.33

Meghahatuburu

Item	HSD			Expl	Power	Lubricant								
Unit	(in Liter)			(in kg)	(in KWH)	(in Liter)	DEPTT ROM	CONT ROM	DEPTT OB	CONT OB	EXPL	Ltr/Te	POWER	LUB
NORM	MINES	DGSET	TOTAL								0.13	0.45	4.15	25
2015-16	2225132	166400	2391532	519270	19481640	115697	3737160	0	1716350	896600	0.08	0.43	3.57	20.70
2016-17	2572886	44085	2616971	515440	17964960	126531	3711060	162000	2828750	234000	0.07	0.39	2.68	19.06
2017-18	2625542	51700	2677242	653081	18582360	119195	3784340	183000	2938950	1026000	0.08	0.38	2.69	16.97
2018-19	2575594	100790	2676384	572008	18050111	117281	3697950	172500	2645300	300000	0.08	0.41	2.77	18.15
2019-20	1119308	75050	1194358	238852	7140022	51375	1674650	7000	1265690	20000	0.08	0.41	2.42	17.43
Apr-19	241434	14290	255724	49387	1248564	8918	330210	0	250800	0	0.09	0.44	2.15	15.35
May-19	240387	6290	246677	49607	1297931	10061	348300	0	251780	0	0.08	0.41	2.16	16.77
Jun-19	205620	19380	225000	45980	1255796	9912	335430	0	275670	0	0.08	0.37	2.05	16.22
Jul-19	192490	26410	218900	40903	1579971	11662	317610	0	271350	0	0.07	0.37	2.68	19.80
Aug-19	239377	8680	248057	52975	1757760	10822	343100	7000	216090	20000	0.09	0.44	3.10	19.12

Consumption of Key Consumables in 2019-20
Bolani

Item	HSD	Expl	Power	Lubricant	DEPTT ROM	CONT ROM	DEPTT OB	CONT OB	EXPL	HSD	POWER	LUB
Unit	(in Liter)	(in kg)	(in KWH)	(in Liter)								
NORM									0.11	0.43	4.8	25
2015-16	2259467	913430	21800400	106130	3598770	1735825	1382700	1085889	0.12	0.40	3.25	18.66
2016-17	2538285	618000	22677280	116550	4014310	1667532	1534785	920488	0.08	0.41	3.14	18.81
2017-18	2514011	935809	20339200	125936	3712455	1543746	1417555	1853008	0.11	0.42	3.05	21.06
2018-19	2490224	1024680	19637760	115744	3977468	1676535	1370685	1606906	0.12	0.40	2.80	18.76
2019-20	1075842	427367.95	8724000	60524	2060540	684066	416320	250729	0.13	0.40	2.76	22.33
Apr-19	205659	99296	1673040	13316	382755	165831	84265	98990	0.14	0.39	2.64	24.97
May-19	211646	77310	1754160	10370	415785	154721	63955	43236	0.11	0.40	2.76	19.59
Jun-19	228123	92800	1812000	12572	429200	154465	106500	46600	0.13	0.39	2.63	21.46
Jul-19	213010	85532	1710000	10976	425200	123598	72700	44822	0.13	0.39	2.75	20.33
Aug-19	217404	72429.95	1774800	13290	407600	85451	88900	17081	0.12	0.42	3.05	25.45

Gua

Item	HSD			Expl	Power	Lubricant	DEPTT ROM	CONT ROM	DEPTT OB	CONT OB	EXPL	HSD	POWER	LUB
Unit	(in Liter)			(in kg)	(in KWH)	(in Liter)								
NORM	MINES	DGSET	TOTAL								0.09	0.55	4.6	25
2015-16	2632296	18880	2651176	413320	18358728	92732	3565810	284938	1540315	198718	0.08	0.51	3.60	17.91
2016-17	2933129	2804	2935933	438030	18480528	106696	3774559	239976	1554059	0	0.08	0.54	3.32	19.80
2017-18	3087765	2220	3089985	388490	18466944	105288	4002700	0	1573793	0	0.07	0.55	3.31	18.88
2018-19	3090800	0	3090800	422803	18845542	110814	3307804.77	363065	1345070	762619	0.08	0.63	3.76	22.46
2019-20	1152830	17735	1170565	178251	7753752	45276	1512810	0	249120	0	0.10	0.66	4.40	25.70
Apr-19	235465	5600	241065	41226	1431744	9646	290790	0	44190	0	0.12	0.72	4.27	28.80
May-19	223658	2000	225658	38149	1615872	10514	292950	0	80640	0	0.10	0.60	4.33	28.14
Jun-19	241210	6825	248035	27832	1600272	3584	312750	0	42840	0	0.08	0.70	4.50	10.08
Jul-19	219087	3310	222397	40974	1517400	10990	293490	0	25650	0	0.13	0.70	4.75	34.44
Aug-19	233410	0	233410	30070	1588464	10542	322830	0	55800	0	0.08	0.62	4.20	27.84

Consumption of Key Consumables in 2019-20

Brasua -Taldih

Item	HSD			Expl	Power	Lubricant	BARSUA ROM	TALDIH ROM									
	(in Liter)		(in kg)						DEPTT	CONT	DEPTT	CONT	DEPT	CONT	EXPL	HSD	POWER
NORM	MINES	DGSET	TOTAL														
2015-16	1230145	6660	1236805	265250	15780840	47362	0	0	2384140	0	0	0	0.11	0.52	6.62	19.87	
2016-17	934836	0	934836	188625	15520680	46730	0	173700	1804950	0	294165	0	0.10	0.45	7.84	22.26	
2017-18	386285	0	386285	95062	13554044	11893	0	1052111	85675	0	206145	0	0.07	1.32	11.91	40.75	
2018-19	1569967	86653	1656620	161280	11762332	31131	1951980	469148	385666	0	65340	0	0.06	0.63	4.89	12.96	
2019-20	522103	43300	565403	100246	5573875	19740	637529	260058	238240	0	0	106947	0.08	0.65	6.36	22.54	
Apr-19	29027	3270	32297	8650	945837	1050	2412	45616	0	0	0	225	0.18	13.39	392.14	435.32	
May-19	131976	340	132316	29956	1419687	4200	180023	53438	76820	0	0	0	0.10	0.52	5.53	16.35	
Jun-19	128999	2140	131139	21756	655557	3780	160464	45903	58675	0	0	41886	0.07	0.60	2.99	17.25	
Jul-19	111284	13715	124999	21376	1337317	5880	158842	73281	51180	0	0	43488	0.07	0.60	6.37	28.00	
Aug-19	120817	23835	144652	18508	1215477	4830	135788	41820	51565	0	0	21348	0.07	0.77	6.49	25.78	

Kalta						Manoharpur						Taldih			D Area & Panposh		
HSD	Expl	Power	Lubricant	Excavation	Explosive Kg/T Excav	HSD	Expl	Power	Lubricant	Excavation	Explosive Kg/T Excav	Expl	Excavation	Explosive Kg/T Excav	Expl	Excavation	Explosive Kg/T Excav
2017-18	59801	147425	1468000	420	0.10	112989	69000	1717011	784	44830	1.54	89700	1258255	0.07		3158815	0.00
2018-19	52204	149850	1328188	0	0.09	83138	88300	2255330	2293	733489	0.12	35925	534488	0.07	256875	2665550	0.10
2019-20	27251	45850	366080	510	0.08	35306	25625	672712	252	305653	0.08	39050	367005	0.11	64276	930775	0.07
Apr-19	4590	12400	82780	510	0.07	6627	5825	122945	11	92799	0.06	8650	45841	0.19	18528	264821	0.07
May-19	3985	7875	86460	0	0.05	6260	4800	138078	24	62702	0.08	6850	53438	0.13	11674	197957	0.06
Jun-19	7580	13550	54420	0	0.10	8394	6600	131659	12	37068	0.18	8500	87789	0.10	21057	197045	0.11
Jul-19	7543	12025	52640	0	0.14	6931	6000	141882	144	47976	0.13	8200	116769	0.07	8503	168420	0.05
Aug-19	3553	0	89780	0	0.00	7094	2400	138148	61	65108	0.04	6850	63168	0.11	4515	102532	0.04

STATUS OF LEASE, ENVIRONMENT & FOREST OF RMD MINES, SAIL

Status as on August' 2019

MINE	GRANTED ON	VALID UPTO	AREA (in ha)	RENEWAL APPL.DATE	FOREST CLEARANCE (FC)		ENVIRONMENTAL CLEARANCE (EC)
					KBR-MBR		
Lease-I	28.03.60	31.03.20	1936.06	17.02.09	Stage-II FC [644.26 Ha] granted by MoEF&CC vide letter dated 26.11.2014. Stage-I FC of South & Central Block (247.5 Ha) was granted by MoEFCC on 18.10.2010. Compliance report has been submitted well within the time & State Govt. forward the proposal to MoEFCC on 13.07.2015. Further, compliance of the quires were forwarded by State Govt. to MoEFCC on 05.04.2016. After approval of MPSM on 08.06.2018, MoEFCC, ND requested GoJ on 26.06.2018 to provide some informations related to CA, Lease validity etc. In compliance to the asked information of Ministry, report submitted to DFO on 19.07.2018/31.07.2018 and final recommendation has been forwarded to MoEFCC, Gol on 08.11.2018 but same has been returned back to the Govt. of Jharkhand on 18.03.2019 seeking for some clarification especially the acceptance of earlier identified CA land. After consultation with concerned DFO, it was clarified that the earlier identified 500 ha CA land was now unacceptable for CA purpose due to forest growth. For resolving the matter, a meeting was held under the chairmanship of RCCF, Jamshedpur on 25.05.2019 wherein concerned DFO, CF and Kiriburu Mines officials were present wherein the concerned DFOs are informed that there is no CA area available under their jurisdiction. Subsequently, DFO, Kolhan vide letter dated 29.05.2019 informed CF, Chaibasa about unavailability of CA land under Kolhan Forest Division. With the communication of DFO, Kolhan, CF, Chaibasa requested RCCF, Jamshedpur vide letter dated 30.05.2019 to help in identify suitable CA land in other Forest Divisions. Thereafter, RCCF has requested PCCF (Nodal) for identification of suitable CA land in other areas. RCCF has requested PCCF (Nodal) to identify suitable CA land in other areas. On that request, PCCF (Nodal), GoJ vide letter dated 14.06.2019 directed RCCF, Ranchi to identify 500 ha suitable CA land in his region. Discussions held with RCCF, Ranchi on 24.06.19 & 02.07.19 wherein RCCF suggested to identify CA land in Khunti, Gumla, Simdega, Lohardaga & Ranchi Forest Divisions with help of respective DFO's. Around 512 ha fresh degraded forest land was identified in Khunti (451 ha) & Gumla (61 ha) Forest Divisions during 02.08.2019 to 15.08.2019. All the CA information and desired Maps are submitted to DFO, Khunti & DFO, Gumla Office on 17.08.2019. The CA schemes, Cadastral Maps, Geo-referenced Maps, kml file & shape files along with suitability certificates and compliance report as asked by Ministry was ready by 20.08.2019 and complete report submitted to DFO, Saranda on 21.08.2019 for further processing of the proposal.	EC granted by MoEFCC for 10 MTPA capacity on 27.12.2006. EC granted by MoEFCC for 16 MTPA capacity on 23.09.2014. CTO for 16 MTPA capacity was granted by JSPCB & renewed upto 31.12.2019. Submitted the CTO renewal application on 22.08.2019 in online portal for next period of 5 years beyond 31.12.2019.	
Government of Jharkhand has extended the mining lease period of amalgamated lease of Kiriburu-Meghahatuburu Iron Ore Mines up to 27.03.2030 vide letter dated 30.07.2019, subject to fulfillment of certain conditions.							
Lease - II	06.02.73	31.03.20	879.439	10.01.02	Forestry clearance for the total broken area of 55.9 Ha was granted on 11.04.2005.		Ore Beneficiation Plant & loading facilities of Meghahatuburu Iron Ore Mine are located in the lease-II.
Lease - III	01.10.73	31.03.20	82	26.09.02	Forestry clearance for the total broken area of 24.23 Ha was granted on 11.04.2005.		Tailing Pond of Kiriburu Iron Ore Mine is located in the lease-III.
Horomotto	01.01.70	31.12.99	1051.98	-	Hon'ble High Court disposed the two writ petitions on 16.04.2019 by directing the State Govt. to consider SAIL's representation in accordance with the law to retain 90.06 ha over which infrastructure facilities were developed. SAIL had submitted a representation to Govt of Odisha on 03.07.2019 and requested to allow SAIL to retain the 90.06 ha in Horomotto Lease area over which various infrastructure facilities have been developed since 1970 and grant Surface Lease for the said area in the larger public interest. Under consideration with Govt. of Odisha.		No EC

STATUS OF LEASE, ENVIRONMENT & FOREST OF RMD MINES, SAIL

Status as on August' 2019

MINE	GRANTED	VALID	AREA	RENEWAL	FOREST CLEARANCE (FC)		ENVIRONMENTAL CLEARANCE (EC)	
					ON	UPTO (in ha)		
BOLANI								
5.1 sq. mile lease	11.04.60	09.04.30	1321.45	26.03.09	Stage-II FC granted by MoEF&CC on 11.12.2012, 09.07.2013 & 12.11.2014. Stage-I FC for additional 87.09 ha sabik FL was obtained on 12.09.2017. Final Compliance report submitted to DFO, Keonjhar in Dec.2017. Additional information submitted to DFO, Keonjhar on 10.05.2018. DFO forwarded the compliance report to RCCF on 20.06.2018. Further, RCCF forwarded to Addl. PCCF (NO) on 16.07.2018. APCCF (Nodal) directed DFO Keonjhar/Rourkela /Keonjhar (WL) Division on 29.08.2018 to revise the CA schemes due to change in revision of wage rate. The revised scheme was forwarded to RCCF, Baripada on 11.10.18 for approval. Revision & authentication of SZ scheme has been approved by RCCF, Baripada on 30.10.18. Another proposal related to revised CA schemes for 169.72 ha & 5.18 ha were approved by APCCF (NO) on 23.10.18 and after the issuance of demand, online payment of Rs. 1492600 portal was done in MoEFCC on 29.10.18. Subsequently, after necessary modification as per new wage rate, forwarded to APCCF (N) on 22.11.2018 & payment done. Stage-I/in-principle Forest Clearance compliance report was forwarded by Odisha Govt. to Ministry on 04.01.2019 for approval of Stage-II/ final Forest Clearance but same has been returned back to the Govt. of Odisha on 07.03.2019 seeking for some clarification /information/documents. The point wise reply to the said clarifications was submitted to DFO, Keonjhar on 23.03.2019 and forwarded to RCCF on 16.05.2019. Forwarded to Addl. PCCF (Nodal) on 11.06.2019. The information forwarded to MoEFCC, NEw Delhi on 07.08.2019 for Stage-II FC.	EC granted for production of Iron Ore 12 MTPA ROM and Installation of 12 MTPA New Beneficiation Plant & 4 MTPA Pellet Plant on 21.12.2012. Consent to Operate for 12 MTPA capacity has been renewed on 28.03.2019 & Valid upto 31.03.2020.		
6.9 sq. mile lease	14.11.62	13.11.82	1586.36	26.03.02 (2nd RML)	MoEFC&CC vide letter dated 24.07.17 issued amended Stage-I FC order. For this proposal FRA certificate issued, double degraded FL identified for CA, PCA land identified & respective schemes are approved on 27.10.2018 and in line with the demand letter received from DFO, Rs 16.35 Crore was paid. After complete compliance of Stage-I FC conditions, status report was submitted to DFO, Keonjhar on 29.12.2018 for onward submission for grant of Stage-II FC. However, due to change in labour wage rate, all the schemes have been revised and approved by the State Forest Department and directed to deposit the differential amounts. Differential amount of Rs. 2.9 Crores has been paid on 20.02.2019. The revised compliance report was submitted to DFO, Keonjhar on 23.02.2019. DFO, Keonjhar forwarded the proposal to RCCF, Rourkela on 25.03.2019. Stage – I FC compliance report was forwarded to Addl. PCCF (N) on 12.04.2019 and forwarded to MoEF&CC on 02.07.2019 for grant of Stage – II FC. In addition to that, Stage-I FC for 124.313 ha Sabik FL was obtained on 12.09.2017. Stage-II FC for 124.313 ha was obtained from MoEF&CC, New Delhi on 29.04.2019.	Granted EC on 21.12.12 for production of 15000 TPA Manganese Ore. CTO for handling of 10 MTPA Iron ore lumps & fines and 15000 TPA Mn ore granted by OSPCB & further renewed on 25.03.2019 with validity upto 31.03.2020. Also, Consent to Establish (CTE) for production of 15000 TPA Mn Ore was extended by OSPCB upto 20.12.2023 on 22.05.2019.		

STATUS OF LEASE, ENVIRONMENT & FOREST OF RMD MINES, SAIL

MINE	GRANTED	VALID	AREA	RENEWAL	FORESTRY CLEARANCE (FC)		Status as on August' 2019
					ON	UPTO (in ha)	
GUA							
Durgaiburu	22.02.49	21.02.79	1443.76	08.02.08 (2nd RML)	Stage-II FC for existing broken area of 274.691 ha has been granted by MoEF on 22.08.2014. Stage-I FC granted for 361.295 ha on 04.03.2014. After subission of Stage- I compliance report to DFO on 02.06.2015 & verification of report, State Govt. forwarded the proposal to MoEFCC, New Delhi on 30.07.2015/23.09.2015 for grant of Stage-II FC. After approval of MPSM on 08.06.18, MoEFCC vide letter dated 03.07.2018 requested GoJ to provide some informations. The desired informations were submitted to forest department on 19.07.2018 & forwarded to MoEFCC, GoJ on 19.11.2018 but same has been returned back to the Govt. of Jharkhand on 28.02.2019 seeking for some clarification especially the acceptance of earlier identified CA land. After meeting with PCCF (Nodal), GoJ on 18.03.2019, it was directed to digitize the forest compartment maps, visit CA sites & find alternate CA lands. After regular follow up at different range, during the month of April & May, 2019, undertaken the process of CA site verification with concerned forest officials & SAIL team. Consequent upon the physical verification of CA lands along with identification of additional CA land, a report on degraded forest land equivalent to 841 Ha under Saranda, Chaibasa and Jamshedpur Forest Divisions were proposed and submitted by Gua Mines to State Forest Department on 24.05.2019 & 25.05.2019 to finalize the CA area. But after re-verification, about 50 % of the proposed area was found suitable. RCCF, Jamshedpur vide its letter dated 19.06.2019 and during the meeting held on 20.06.2019 has directed concerned DFO's to identify degraded forest land for CA. Degraded forest land for CA covering area in respective divisions was identified. Vide letter dated 13.07.2019, DFO Saranda informed CF, Chaibasa regarding the same and advised SAIL to provide kml files of the identified area along-with maps. Preparation of Kml files along-with the maps has been completed on 27.07.2019. After approval of CA scheme by concerned DFOs, forwarded to DFO, Saranda for necessary demand. Thereafter, demand has been raised by DFO, Saranda on 17.08.2019 but not done due to uncertainty in online system of forest department. After processing the proposal at CF & RCCF Office, the complete information was forwarded to PCCF (Nodal), GoJ on 22.08.2019 and further to Addl. Chief Secretary (Dept. of F, E & CC), GoJ on 25.08.2019.	EC granted by MoEF on 25.03.2013. CTO for 12.5 MTPA renewed by JSRPCB on 26.12.2016 for the period 01.01.2017 to 31.12.2020.	
Government of Jharkhand has extended the mining lease period of Duargiiburu Lease of Gua Ore Mines up to 21.02.2029 vide order dated 25.06.2019, subject to fulfillment of certain conditions.							
Jhilingburu - I	12.05.50	11.05.80	210.526	25.04.09 (2nd RML)	Stage-I FC for 210.526 ha forest land was granted vide MoEF&CC order dated 25.09.2017. Compliance related to CA land indentification is under progress.		ToR for conduting EIA study for production of 61,362 TPA Manganese Ore was granted by MoEF &CC on 04.03.2015. Final EIA/EMP report was submitted online on 04.01.2017 for EAC meeting & grant of EC. MoEF&CC on 13.11.17sought additional details and directed to apply online as per notification dated 14.03.17. The reply of the ADS was submitted & as per the provisions of notification dated 14.03.17, the ToR proposal was submitted online on 02.12.17. Again vide notification dated 16.03.2018, MoEFCC directed for re-submission of the ToR proposal. Proposal was re-submitted to MoEFCC online on 4.4.18 for issue of TOR and requested to consider the proposal as a special case as Public hearing already held and final EIA submitted. EAC meeting held on 29.08.2018. ADS asked on 13.09.2018 which is under compliance.
Jhilingburu - II	12.05.50	31.03.20	30.43	05.05.09 (2nd RML)	Stage-I FC for 30.43 ha of forest land was granted on 29.01.2013. Stage-I FC Compliance Report submitted to DFO, Chaibasa on 20.05.2016 and was forwarded to RO, MoEFCC, Ranchi for grant of Stage-II FC. The query raised by MoEFCC, Ranchi pertaining to CA levies information/record was submitted by Dy. Secy. (F,E&CC Dept.), GoJ to DCF (Central), MoEFFCC, Ranchi on 16.01.2018 for further necessary action. MoEF&CC, RO, Ranchi vide letter dated 27.02.2019 requested PCCF (Nodal), GoJ to provide certain information in view of the approval of MPSM. The point-wise information was submitted to DFO,Saranda vide letter dated 02.04.2019. After examination of information, DFO,Saranda vide letter dated 27.04.2019 has sought certain clarifications from SAIL which were replied on 22.05.2019.	EC has been granted by Jharkhand SEIAA, Ranchi on 10.12.2018 for production of 20820 TPA Manganese ore.	
Topailore	09.03.70	31.03.20	14.15	04.03.99	Stage-I FC for 14.15 ha of forest land was granted by MoEF on 30.08.13. Stage-I FC compliance submitted to DFO, Saranda on 05.03.2016 and was forwarded to RO, MoEFCC, Ranchi on 03.11.16 for grant of Stage-II FC. MoEFCC, RO, Ranchi vide letter dated 27.02.2019 requested PCCF (Nodal), GoJ to provide certain information in view of the approval of MPSM. Reply submitted to DFO on 02.04.2019 but again clarification asked on 27.04.2019 by DFO which was replied on 22.05.2019 to DFO. The matter forwarded to CF on 10.07.2019 by DFO & forwarded to RCCF on 12.07.2019. RCCF forwarded to PCCF (N) on 20.07.2019 and subsequently forwarded to ACS, F&E, Govt of Jharkhand on 25.08.2019.	EC granted by SEIAA vide letter no. EC/SEIAA/2015-16/2015/1291 dated 17.08.2015.	

STATUS OF LEASE, ENVIRONMENT & FOREST OF RMD MINES, SAIL

							Status as on August' 2019		
MINE	GRANTED	VALID	AREA	RENEWAL	FORESTRY CLEARANCE (FC)		ENVIRONMENT CLEARANCE (EC)		
	ON	UPTO	(in ha)	APPL.DATE	CHIRIA				
CHIRIA									
Budhaburu (McLellan)	08.12.45	31.03.20	823.617	16.11.04 (2nd RML)	Stage I FC granted by MoEFCC vide order no.- 8-70/2009-FC dated 7th March 2011. Compliance of Stage-I FC forwarded by State Govt. to MoEF on 22.09.2014. RO, MoEFCC, BBSR inspected the mine and the report was sent to MoEFCC, New Delhi on 24.07.2015. After approval of MPSM on 08.06.18, MoEFCC vide letter dated 10.08.2018 requested GoJ to provide some informations. In line with that letter, GOJ asked the same on 31.08.2018 which is under compliance. Special Duty Office (F,E&CC) vide letter dated 1.11.18 directed PCCF, Jharkhand & PCCF (Nodal) with a copy to SAIL to submit the information. The pointwise information (except shape/kml files of CA land) was submitted to DFO, Saranda on 14.11.18. Shape/kml files of the lease area and forest area proposed for diversion and sites identified for CA were submitted to DFO, Saranda by MOM, Chiria on 24.12.18. After verification at different level, the information was forwarded to MoEFCC by Govt. of Jharkhand	EC has been granted by MoEF&CC vide letter no -J-11015/249/2009-IA.II (M) dated 23.03.2011 for enhancement of production capacity to 4.2 MTPA.			
Ajitaburu	07.12.47	06.12.77	323.887	04.12.06 (2nd RML)		EC has been granted by MoEF&CC vide letter no - J-11015/505/ 2007-IA.II (M) dated 31.03.2011 for enhancement of production capacity to 2.8 MTPA.			
Sukri - Latur	22.03.49	21.03.79	609.554	11.03.08 (2nd RML)		EC has been granted by MoEF vide letter no- J-11015/247/ 2009-IA.II (M) dated 10.06.2013 for production capacity to 0.75 MTPA.			
Dhobil	08.03.48	07.03.38	513.036	06.03.97 (2nd RML)	Forestry clearance is deemed to be exist upto 2038.	EC has been granted by MoEF vide letter no- J-11015/247/ 2009-IA.II (M) dated 24.01.2012 and amended dated 01.05.12 for production capacity to 0.75 MTPA. The amendment of EC for continuation of ore transportation by road for 5 more years beyond June, 2017 was granted on 19.04.17. Consent to Operate for 0.75 MTPA has been renewed by JSPCB on 09.03.2018 for the period up to 31.03.2022. CTO for Manoharpur siding for dispatch of 2.5 lakhs T/month of iron ore was granted by JSPCB on			
Tatiburu	01.09.49	31.08.79	38.85	24.08.08 (2nd RML)	Virgin & Non-working lease.No FC		No EC		
Ankua	14.06.82	31.03.20	67.178	18.06.11 (2nd RML)	Virgin & Non-working lease.No FC		No EC		
BARSUA-KALTA									
ML No.-130	06.01.60	05.01.30	2486.38	NA	Stage-II FC granted by MoEF&CC on 06.03.2013. DFO, Bonai vide letter dated 27.02.18 allowed to take up mining operation over 28.90 ha of forest land under Taldih Block-C. Proposal for felling of tree over an area of 58.75 ha in area-5 of Barsua Part has been approved by DFO, Bonai and a meeting was held on 29.10.2018 for settlement/ strategy of tree felling. Offer issued by M/s OFDC on 2.11.2018 for said proposal & job is under progress.	EC granted by MoEFCC vide letter dated 29th Oct'10. Amended EC for ML-130 lease was granted on 30.03.2016 for redistribution of production from Barsua to 3.5 Mt/yr and Kalta to 2.5 Mt/yr and Taldih to 2.05 Mt/yr. CTO of Barsua Railway siding has been granted on 30.03.2019 with validity upto 31.03.2020.			
ML No.-162	29.04.60	28.04.30	77.94	21.04.99	Stage-II FC granted on 23.10.17 for diversion of 77.94 ha of forest land.	Ore Beneficiation Plant, Jigging Plant, Conveyors, part of the Tailing Pond located under this lease.			
ML No.-139	17.01.75	16.01.25	25.981	04.01.14	Online Diversion Proposal including safety zone submitted on 22.07.15. On scrutiny of online diversion proposal, DFO noticed some deficiencies and raised query on 26.05.16. Compliance of the query is under process. The matter of identification of CA land was discussed with forest nodal office on 25.10.2018 meeting. CA land over an area of 33.022 ha has been identified & map has been submitted to DFO, Rourkela for preparation of scheme.	MoEFCC vide letter dated 11.09.2018 accorded TOR and directed to submit EIA/EMP report based on the prescribed TOR. Job is under process for submission to OSPCB for conducting Public Hearing.			
ML No.-227	18.01.84	17.01.04	3.34	04.01.03	Preparation of Diversion Proposal is under progress	Non-working lease. Obtaining EC is under progress.			

STATUS OF LEASE, ENVIRONMENT & FOREST OF RMD MINES, SAIL

						Status as on August' 2019
MINE	GRANTED	VALID	AREA	RENEWAL	FORESTRY CLEARANCE (FC)	ENVIRON. CLEARANCE (EC)
	ON	UPTO	(in ha)	APPL.DATE		
BHAWANATHPUR						
GORGAON	23.10.72	31.03.20	228.46	18.10.11 (2nd RML)	Surrender of Bhawanathpur leases i.e Gorgaon, Ghagra & Saraiya leases has been approved by SAIL-Board on 30.05.2017. Final Mine Closure Plan has been prepared by M/s MECON and submitted to IBM, Ranchi on 29.03.2018 for approval. Vide letters dated 15.10.18, the reply to the IBM query was submitted on 18.10.18. SAIL official met IBM official, Ranchi on 31.01.19 & 01.02.19 for approval of FMCP wherein IBM directed to submit the Geological Report of three leases for further processing of FMCP's. Geological Reports of three leases were submitted to IBM on 25.02.19 for grant of FMCP. IBM, Ranchi approved the FMCP's for Gorgaon on 08.05.19 and Ghagra & Saraiya leases on 09.05.19. A request letter was submitted to DC, Garhwa through DMO, Garhwa on 15.05.2019 for surrender of Bhawanathpur leases as per Rule 21 (1) of MCR, 2016. Also, another request letter was submitted to Secy (Mines & Geo) on 23.05.2019 for final surrender of Bhawanathpur leases. The completion of approved job related to closure plan is under process.	
GHAGHRA	23.10.72	31.03.20	675.678	18.10.11 (2nd RML)		
SARAIYA	31.03.66	31.03.20	275	01.03.07 (3rd RML)		
PURNAPANI	06.01.80	31.03.20	230.525	30.12.98	No forest land involved	Non-working lease. No EC
GHATITANGAR	29.04.80	28.04.00	153.51	16.04.99	Writ petitions were heard at different dates by the Hon'ble High Court of Orissa which was finally heard on 06.08.2019. The Hon'ble High Court has disposed of the two writ petitions filed by SAIL and asked to makes a representation to State Govt. for redressal of its grievances.	Non-working lease. No EC
KUTESHWAR						
LEFT BANK LEASE	15.05.82	14.05.22	91.14	NA	No forest land.	EC granted by MoEFCC vide letter no. J-11015/450/2012-IA.II(M) dated 17.08.2015.CTE application for 0.06 MTPA production submitted on 06.01.2016. CTE for 0.06 MTPA production granted on 10.04.2016. Renewal of CTO was extended by Madhya Pradesh Pollution Control Board upto 31.07.2019. Applied for next period.
RIGHT BANK LEASE	10.06.71	09.06.21	944.89	NA	No forest land.	EC granted by MoEFCC vide letter no. J-11015/449/2012-IA.II(M) dated 02.09.2015.CTE granted on 31.12.2015 for 2.32 MTPA expansion. CTO for 2.32 MTPA expansion granted by MPPCB on 23.02.2016 with validity upto 31.01.17. CTO renewed by MPPCB for the period upto 31.01.2020.
TULSIDAMAR	30.10.69	31.03.20	118.72	20.10.08 (2nd RML)	Stage-II FC for 101.32 ha under the lease was granted on 18.12.1997. DFO, Garhwa informed SAIL-BNP Mines vide its letter dated 25.03.19 that the validity of FC is co-terminus with lease period i.e. upto 31.03.2020 and further directed to submit the online FC renewal application. FC renewal application (FORM-B) was submitted online in MoEFCC portal on 29.03.19. Thereafter, clarification asked on 16.04.2019 which was replied on 01.06.2019 in online. Also, a clarification has been sought from PCCF & HoFF, GoJ by SAIL on 03.05.19, regarding extension of period of validity of FC granted under Section 2(ii) of FC Act, 1980 for the lease.	EC was granted on 24.03.1995 as per EIA notification 1994. CTO for 25000 TPM (Dolomite) capacity has been renewed by JSPCB on 28.03.17 for the period upto 31.03.2020. CTO for Rly Siding for 25,000 TPA Dolomite and 60,000 TPA Limestone renewed by JSPCB upto 30.06.2020. In compliance to MoEFCC Office memorandum dated 06.04.2018, ToR application under EIA Notification, 2006 has been submitted in Ministry's portal on 31.08.2018.EAC meeting held on 23.01.2019 wherein committee members did not consider the EC granted to mine in 1995. MoEF&CC vide letter dated 19.03.2019 returned the EC proposal and informed that project proponent had not taken EC under the provisions of EIA Notification, 2006 at the time of renewal of mining lease due in 2009. Further, MoEFCC vide separate letters dated 19.03.2019 informed Secretary (Dept. of Mines & Geo), GoJ and Secretary (Dept. of F, E & CC), GoJ for taking further necessary action. In order to avoid any coercive action on account of directions issued by MoEFCC vide letter dtd 19.03.2019 to Jharkhand State Government, Writ Petitions have been filed in Jharkhand High Court on 18.05.2019. No notice has been served by Jharkhand Govt. in the matter till date.

RMD MANPOWER POSITION AS ON 01.09.2019

	Executives	Non-Executives	Total
A. Ore Mines			
Kiriburu	85	553	638
Meghatuburu	68	520	588
Bolani	85	473	558
Barsua	65	285	350
Kalta	17	61	78
Gua	56	495	551
Chiria	17	55	72
A. Total	393	2442	2835
B. Flux Mines			
Purnapani	0	6	6
Kuteshwar	26	81	107
BNP & TDMR	10	60	70
B. Total	36	147	183
C. Offices			
Kolkata	65	29	94
Rourkela	12	16	28
Bokaro	1	3	4
Durgapur	0	4	4
Delhi	4	2	6
Bhubaneswar	1	2	3
Ranchi	1	2	3
Burnpur	0	1	1
MT	22		22
C. Total	106	59	165
Grand Total (A+B+C)	535	2648	3183
Manpower as on 01.08.2019	534	2623	3157
Reduction(-)/Increase(+) 	1	25	26

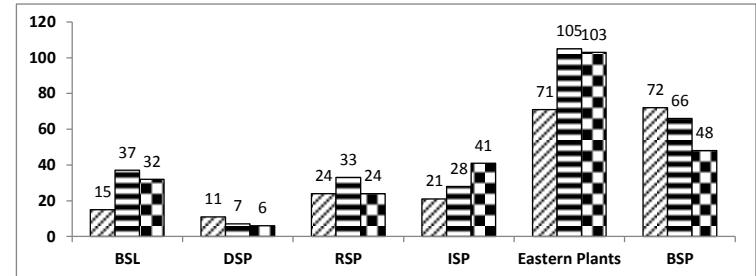
ACCIDENT STATISTICS OF RMD MINES

	FATAL						SERIOUS						REPORTABLE						MANDAYS LOST							
	Aug-19			FY 2019-20			Aug-19			FY 2019-20			Aug-19			FY 2019-20			Aug-19			FY 2019-20				
	R	C	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	T		
Kiriburu																						103		103		
Meghatuburu																										
Bolani																						57		57		
Barsua													1	1							12	12		58	58	
Taldih																										
Kalta																										
Gua																	2	2				100		100		
Manoharpur																	1	1				45		45		
Kuteshwar																										
Tulsidamar																										
RMD Total													1	1				3	3			12	12	305	58	363

IRON ORE STOCK INVENTORY BEHAVIOUR
August 2019
IRON ORE LUMP

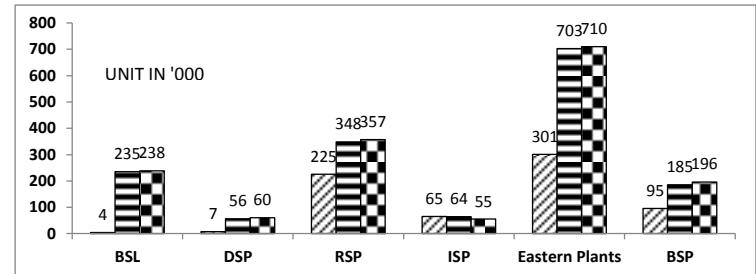
UNIT: '000 TONNES

PLANT	STK	STK	RECEIPTS		CONS		STK	ST+/-	
	01.04.2019	01.08.2019	MTH	CUM	MTH	CUM	01.09.2019	MTH	YR
BSL	15	37	178	1129	196	1091	32	-5	17
DSP	11	7	135	598	136	603	6	-1	-5
RSP	24	33	157	989	134	780	24	-9	0
ISP	21	28	113	445	98	400	41	13	20
Eastern Plants	71	105	583	3162	564	2874	103	-2	32
BSP	72	66			277	1337	48	-18	-24
TOT	214	276	1166	6323	1405	7085	254	-22	40



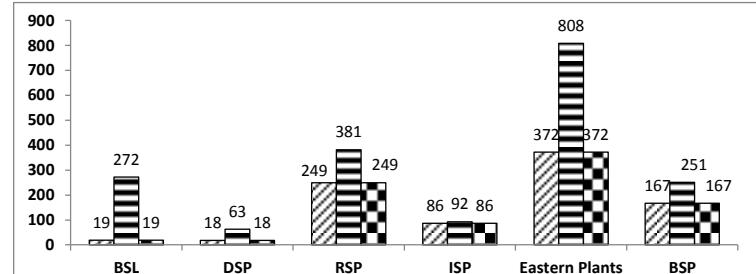
IRON ORE FINES

PLANT	STK	STK	RECEIPTS		CONS		STK	ST+/-	
	01.04.2019	01.08.2019	MTH	CUM	MTH	CUM	01.09.2019	MTH	YR
BSL	4	235	334	1870	346	1738	238	3	234
DSP	7	56	220	1134	216	1081	60	4	53
RSP	225	348	246	1608	270	1667	357	9	132
ISP	65	64	284	1221	375	1404	55	-9	-10
Eastern Plants	301	703	1084	5833	1207	5890	710	7	409
BSP	95	185	55	328	398	1872	196	11	101
TOT	697	1591	2223	11993	2812	13652	1616	25	919



IRON ORE TOTAL

PLANT	STK	STK	RECEIPTS		CONS		STK	ST+/-	
	01.04.2019	01.08.2019	MTH	CUM	MTH	CUM	01.09.2019	MTH	YR
BSL	19	272	512	2999	542	2829	270	-2	251
DSP	18	63	356	1732	352	1684	66	3	48
RSP	249	381	402	2597	404	2447	381	0	132
ISP	86	92	397	1666	473	1804	96	4	10
Eastern Plants	372	808	1668	8994	1771	8764	813	5	441
BSP	167	251	55	328	675	3209	244	-7	77
TOT	911	1867	3390	18316	4217	20737	1870	3	959



* BSP RECEIPT FROM RMD MINES

PRODUCTION PERFORMANCE

August 2019

हॉट मेटल

UNIT:'000 TONNES

संयंत्र	FOR THE MONTH			LAST YR Aug 2018	GRTH %	CUML FOR YR			LAST YR	GRTH %
	TGT	ACT	%FF			TGT	ACT	%FF		
बोकारो	380	321	85	360	-11	1932	1768	92	1719	3
दूर्गापुर	225	214	95	215	0	1062	1010	95	1049	-4
राऊरकेला	358	243	68	319	-24	1708	1500	88	1587	-5
बर्नपुर	225	229	102	94	145	1115	983	88	870	13
पूर्वी इस्पात संयंत्र	1188	1008	85	987	2	5817	5262	90	5225	1
भिलाई	558	417	75	402	4	2503	2004	80	1791	12
TOTAL	1746	1425	82	1389	3	8320	7266	87	7015	4

सिन्टर

UNIT:'000 TONNES

संयंत्र	FOR THE MONTH			LAST YR Aug 2018	GRTH %	CUML FOR YR			LAST YR	GRTH %
	TGT	ACT	%FF			TGT	ACT	%FF		
बोकारो	482	479	99	553	-14	2234	2404	108	2458	-2
दूर्गापुर	289	283	98	294	-4	1386	1372	99	1398	-2
राऊरकेला	579	408	71	512	-20	2768	2447	88	2634	-7
बर्नपुर	325	336	103	144	134	1612	1506	93	1313	15
पूर्वी इस्पात संयंत्र	1675	1506	90	1503	0	8000	7729	97	7804	-1
भिलाई	810	627	77	572	10	3645	3004	82	2691	12
TOTAL	2485	2133	86	2075	3	11645	10733	92	10495	2

IRON ORE RECEIPTS

FIGS IN '000 T

FOR THE MONTH OF

August 2019

	Lump Receipt								
	KBR	MBR	BOL	BAR	TAL	KAL	GUA	MPR	TOT
BSL	24	53	22	47	11	0	2	20	178
DSP	0	1	117	0	0	0	17	0	135
RSP	78	47	0	0	0	32	0	0	157
ISP	0	0	61	0	0	0	52	0	113
BSP	0	0	0	0	0	0	0	0	0
TOT	101	102	200	47	11	32	71	20	583

TILL THE MONTH OF

August 2019

	Lump Receipt								
	KBR	MBR	BOL	BAR	TAL	KAL	GUA	MPR	TOT
BSL	72	231	332	264	87	4	26	114	1129
DSP	0	3	432	0	0	0	164	0	598
RSP	399	209	0	0	20	333	0	28	989
ISP	0	0	211	0	0	0	230	3	445
BSP	0	0	0	0	0	0	0	0	0
TOT	471	443	975	264	107	337	419	145	3162

Fines Receipt

	KBR	MBR	BOL	BAR	TAL	KAL	GUA	MPR	TOT
BSL	115	83	23	87	0	0	8	17	334
DSP	0	3	171	0	0	0	47	0	220
RSP	118	91	0	0	29	8	0	0	246
ISP	0	41	124	0	0	0	119	0	284
BSP	0	0	0	0	0	0	55	0	55
TOT	234	218	318	87	29	8	229	17	1139

Fines Receipt

	KBR	MBR	BOL	BAR	TAL	KAL	GUA	MPR	TOT
BSL	562	470	257	381	37	37	73	54	1870
DSP	0	86	739	0	0	0	309	0	1134
RSP	562	644	0	0	92	251	0	60	1608
ISP	0	147	537	0	0	0	534	3	1221
BSP	181	0	0	0	0	0	144	3	328
TOT	1304	1347	1532	381	128	288	1060	120	6160

Total Receipt

	KBR	MBR	BOL	BAR	TAL	KAL	GUA	MPR	TOT
BSL	139	136	45	134	11	0	10	36	512
DSP	0	4	288	0	0	0	64	0	356
RSP	196	138	0	0	29	40	0	0	402
ISP	0	41	185	0	0	0	171	0	397
BSP	0	0	0	0	0	0	55	0	55
TOT	335	320	518	134	39	40	300	36	1722

Total Receipt

	KBR	MBR	BOL	BAR	TAL	KAL	GUA	MPR	TOT
BSL	634	701	589	645	123	41	98	168	2999
DSP	0	90	1170	0	0	0	473	0	1732
RSP	961	853	0	0	112	584	0	88	2597
ISP	0	147	748	0	0	0	764	7	1666
BSP	181	0	0	0	0	0	144	3	328
TOT	1775	1791	2507	645	235	624	1480	265	9322

BASE FREIGHT IN RS PER TONNE FOR TRAIN LOAD

	BSL (BSCS)		DSP (DSEY)		RSP (HSPG)		IISCO (IISD)		BSP (BSPC)	
IRON ORE	DIST	FRT	DIST	FRT	DIST	FRT	DIST	FRT	DIST	FRT
165 CLASS-170 CLASS	Km	Nov-18	Km	Nov-18	Km	Nov-18	Km	Nov-18	Km	Nov-18
KRBU(N/B) (FOS)	371	666.60	409	747.70	90	203.50	377	706.90	539	951.20
KRBU(O/B) (SOBK)	371	666.60	409	747.70	90	203.50	377	706.90	539	951.20
MBR (SSMK)	371	666.60	409	747.70	90	203.50	377	706.90	539	951.20
BOLANI (BYFS)	272	508.70	318	587.20	223	467.80	286	549.10	673	1193.30
BARSUA (PBSB)	342	626.90	389	706.90	69	203.50	356	666.60	519	951.20
ROXY (HLSR)	332	626.90	379	706.90	59	203.50	346	626.90	509	951.20
GUA (ISCG)	265	508.70	311	587.20	216	426.80	279	549.10	665	1193.30
MANOHARPUR (IISM)	241	467.60	287	549.10	33	203.50	255	508.70	483	869.20
DALLIRAJHARA (DRZ)	827	1433.00	871	1512.10	533	951.20	832	1433.00	83	203.50

	BSL (BSCS)		DSP (DSEY)		RSP (HSPG)		IISCO (IISD)		BSP (BSPC)	
FLUX	DIST	FRT	DIST	FRT	DIST	FRT	DIST	FRT	DIST	FRT
145 CLASS -150 CLASS	Km	Nov-18	Km	Nov-18	Km	Nov-18	Km	Nov-18	Km	Nov-18
BHAWANATHPUR (PSBS)	369	585.80	491	763.80	559	907.30	459	727.40	909	1398.20
KHANABANJARI (BLSG)	712	1119.70	834	1259.30	675	1048.70	802	1259.30	496	763.80

LEAN SEASON FREIGHT IN RS PER TONNE FOR TRAIN LOAD (DPO-0%)

	BSL (BSCS)		DSP (DSEY)		RSP (HSPG)		IISCO (IISD)		BSP (BSPC)	
IRON ORE	DIST	FRT	DIST	FRT	DIST	FRT	DIST	FRT	DIST	FRT
165 CLASS-170 CLASS	Km	Nov-18	Km	Nov-18	Km	Nov-18	Km	Nov-18	Km	Nov-18
KRBU(N/B) (FOS)	371	699.93	409	785.09	90	213.68	377	742.25	539	998.76
KRBU(O/B) (SOBK)	371	699.93	409	785.09	90	213.68	377	742.25	539	998.76
MBR (SSMK)	371	699.93	409	785.09	90	213.68	377	742.25	539	998.76
BOLANI (BYFS)	272	534.14	318	616.56	223	491.19	286	576.56	673	1252.97
BARSUA (PBSB)	342	658.25	390	742.25	69	213.68	356	699.93	519	998.76
ROXY (HLSR)	332	658.25	379	742.25	59	213.68	346	658.25	509	998.76
GUA (ISCG)	265	534.14	311	616.56	216	448.14	279	576.56	665	1252.97
MANOHARPUR (IISM)	241	490.98	287	576.56	33	213.68	255	534.14	483	912.66
DALLIRAJHARA (DRZ)	827	1504.65	871	1587.71	533	998.76	832	1504.65	83	213.68

	BSL (BSCS)		DSP (DSEY)		RSP (HSPG)		IISCO (IISD)		BSP (BSPC)	
FLUX	DIST	FRT	DIST	FRT	DIST	FRT	DIST	FRT	DIST	FRT
145 CLASS -150 CLASS	Km	Nov-18	Km	Nov-18	Km	Nov-18	Km	Nov-18	Km	Nov-18
BHAWANATHPUR (PSBS)	369	615.09	491	801.99	559	952.67	459	763.77	909	1468.11
KHANABANJARI (BLSG)	712	1175.69	834	1322.27	675	1101.14	802	1322.27	496	801.99