



NMDC LIMITED
BIOM, KIRANDUL COMPLEX

KC/IE/Plant Review Meeting/22-23/01/

Dated: 25.05.2022

Minutes of Plant Review Meeting held on 15.05.2022

Plant Review meeting during the month was held on 15.05.2022 at plant office conference hall. The following were present during the meeting:

S/Shri	
1.	R Govindarajan Executive Director
2.	Vinay Kumar CGM (Prod.)/ Mines Manager
2.	R Rajakumar GM (Mech.), OCSL Plant
3.	P B Antony DGM (Matls.)
4.	R Navvukarsu DGM (Mech.), SP-I
5.	H K Ghunabat DGM (Elec.), OCSL Plant
6.	S S Ghosh DGM (Mech.), LP
7.	Jagram Barwey AGM (Mech.), CP-14
8.	Jitendra Thakre AGM (Mech.), CP-11C
9.	M Rajagopala Rao AGM (Mech.), Planning
10.	HK Tirkey AGM (Mech.), SP-II
11.	T S Babu AGM (MP), CP/DH-11B
12.	K Srinivasa Rao AGM (Elect.), SP-I
13.	Naveen Das AGM (Mech.), DH-11C
14.	S K Panda AGM (Mech.), DH-14
15.	Umesh Vishwakarma SM (Elec.), CP/DH-11B
16.	B L Sao SM (Elec.), SP-II
17.	Hemant Singh SM (Elec.), LP
18.	Narendra Singh SM (Elec.), CP/DH-11C
19.	Animesh Jha Mgr. (Civil), Major Construction
20.	Swapna Sagar Mgr. (Comm.)
21.	J Madhu DM (Elec.), Planning
22.	Baljinder Singh DM (IE)
23.	G Ram Kumar DM (Elec.), CP/DH-14

Following points were discussed in the meeting:

1. Production and Despatch:

At the outset, CGM (Prod.)/ Mines Manager congratulated all the HODs/Section in-charges in the meeting for achieving ever highest LCF production and LCF despatches during the FY2021-22 and Apr'2022. The production and despatches during the month and year upto 14th May'22 was reviewed as under:

(Fig. In LT)

Parameter	May'22 (upto 14 th)			2021-22 (upto 14 th May)		
	Trgt.	Act.	Ach%	Trgt.	Act.	Ach%
ROM Prod.	5.72	4.42	77%	20.02	16.25	81%
Waste	1.44	1.46	101%	5.04	3.93	78%
T.E.	7.16	5.87	82%	25.06	20.17	81%
L+C+F Prod.	6.84	4.61	67%	23.84	17.76	75%
L+C+F Desp.	7.72	5.68	74%	24.72	19.48	79%

CGM (Prod.)/ Mines Manager directed that efforts are to be made for achieving LCF production @ 65,000 T/day and LCF Despatches @ 60,000 T/day in the balance days of the month OFR achieving ever highest in May month.

Action: All concerned

2. Plant Status:

CGM (Prod.)/ Mines Manager reviewed the proposed works in various sections of OCSL plant as under:

SN	Item	Description	Status/Works proposed
<u>Crushing Plant-14 (Mechanical):</u>			
1	101	Apron Feeder	Ok, Return roller to be replaced. It will be take up during shut down of 102.
2	102	Pri. Crusher	Ok, bottom shell foundation bolts and arm shell liners to be replaced.
3	103	Apron Feeder	Ok, Part qty. of carrier roller to be replaced. The work will be take up during shut down. Driven wheel sprocket damaged, running under observation and needs to be replaced.
4	104	NN200 X 1500 mm Belt Conv.	Ok, Top ply got wear out and running under observation. It will be changed during shut down.
5	107	Scalping Screen	Ok, Kobe Screen sleeve pulley damaging the belt and to be replaced. Awaiting for panels.
6	108	Sec. Crusher	Ok
7	109	NN250 X 1200 mm Belt Conv.	Ok, Gear box to be replaced. Item has been received. The work will be taken-up during shut down.
8	110	NN250 X 1200 mm Belt Conv.	Ok, Gear box to be replaced. Item has been received. The work will be taken-up during shut down.
9	111	NN250 X 1200 mm Belt Conv.	Ok, hanging magnet installed.
10	112	Grizzly	Ok, damaged liners replaced.
<u>Crushing Plant-11C (Mechanical)</u>			
1	101 A&B	Apron Feeder	2 nos. Ok, A line – bull gear and pinion replaced

2	102 A&B	Pri. Gyratory Crusher	2 nos. Ok
3	103 A&B	Apron Feeder	A-line: track link is worn-out need to be replaced in Apr'22. B-line: Apron pan bolt area repair works is in progress.
4	104 A	NN200 X 1500 mm Belt Conv.	Ok, Hanging magnets have been installed
5	104 B	NN125 X 2000 mm Belt Conv.	Ok, Hanging magnets have been installed
6	107 A&B	Scalping screen	2 nos. Ok, B – line: Set of spare panels required for newly installed screen from M/s ICE. Panels needs to be replacement. The procurement is in progress.
7	108 A&B	Sec. Crusher	2 nos. Ok, A line – Mantle and concave to be replaced. B line – oil splash issue. Flash ring not available.
8	109 A&B	NN250 X 1200 mm Belt Conv.	2 nos. Ok
9	112 A&B	Fish Grizzly	2 nos. Ok
10	113	Primary Crane	Ok
11	119	NN250 X 1200 mm Belt Conv.	Ok, take up bend pulley lagging done, 215 mtrs belt replaced.
12	120	Moving Tripper	Ok, take-up bend pulley shell partially worn-out, running under observation. Pulley lagging to be replaced as needs repair frequently. All tripper wheels worn-out and needs to be replaced to avoid jerking and mis-alignment. Material received at Stores, Kdl.
<u>CP/DH-11B (Mechanical)</u>			
1	1103	Pri. Crusher	Ok, Primary surge hopper wall liner replacement work completed.
2	1104	Apron Feeder	Ok, pinion & bull gear worn out, to be replaced. Drive sprocket segment and pan also needs to be replaced, awaiting for spares.
3	1105	NN 200 X 1500 mm Belt conv.	Ok, garland roller damage, running with repair (strength not sufficient). Carrier frame required for replacement. Awaiting for carrier and garland rollers.
4	1107	Scalping Screen	Ok, Spare screen kept ready.
5	1108	Sec. Crusher	Ok
6	1109	NN200 X 1500 mm Belt conv.	Ok.
7	1110	NN200 X 1500 mm Tripper conv.	Ok
8	1111	Tripper	Ok

9	1115 (A-F) (6 Nos.)	Apron Feeder	Ok
10	1116	NN250 X 1200 mm Belt conv	Ok
11	1117	ST5000 X 1200 mm single flight DH conv.	Ok, 620 mtrs. belt replaced.
12	1120	NN250 X 1200 mm Belt conv.	Ok
<u>Downhill- 14 (Mechanical)</u>			
1	201 A & B	Vibrating Feeder	2 Nos. Ok
2	202	ST 1600 X 1200 mm Belt Conveyor	Ok
3	203	ST 5000 X 1200 mm Belt Conveyor	Conveyor running with 3 motors (1 & 3) feed rate increased to 1200 TPH. New Thrusters received installation is pending. 210 mtrs belt to be replaced along with snub pulley.
4	204	ST 1600 X 1200 mm Belt Conveyor	OK
5	205	NN 125 X 1350 mm Radial Conveyor	Belt running in repaired condition under observation. 72 mtrs. belt replaced.
Centralized Greasing System installed in BC202/203/204 motor room. The work is in progress at Transfer Point.			
<u>Downhill-11C (Mechanical)</u>			
1	122 (A - F) (6 Nos.)	Apron Feeder	05 nos. Ok, E-line: Apron pan to be re-positioned. E-line: damaged return metallic rollers to be replaced.
2	123	NN 250 X 1200 mm Belt Conveyor	Ok, 192 mtrs. belt to be replaced (Life achieved). Oil leakage noticed, Gear box input & output oil seal replaced.
3	124	ST 2800 X 1050mm Belt Conveyor	Ok, double drive pulley with bearing sleeve (LHS) replaced. 210 mtrs belt to be replaced. Mono rail provision completed.
4	125	ST1600 X 1050 mm Belt Conveyor	Ok
5	126	ST 2800 X 1050 mm Belt Conveyor	Ok, Single drive pulley to be replaced, available at the site. Double drive pulley to be replaced, available at the site.
6	127	ST 1600 X 1050 mm Belt Conveyor	Ok, Bend pulley-2 (LHS) bearing replaced. Winch machines have been installed.

7	128	ST 1600 X 1050 Belt Conv.	Ok, take-up pulley shaft got under-size and needs to be replaced. Pulley not available. Oil leakage from Gear box & crack on gear casing has been repaired.
8	131	NN 250 X 1050 mm Belt Conv.	Ok, Pulley replaced.
9	132	Tripper	Ok. LHS 60-meter rail made reverse. Total 120 mtrs. rails to be replaced. All wheel assembly to be replaced by new one. The procurement is in progress.
10	133	NN 250 X 1050 mm Belt Conveyor	Ok, Bend pulley 2 LHS bearing making abnormal sound, pulley has been replaced.
<u>Screening Plant-I (Mechanical)</u>			
1	301	Vib Feeder (8 Nos.)	7 nos. Ok, D1: Feeder replacement is in progress.
2	302	NN 250 X 1200mm Conv. (4 Nos.)	4 nos. Ok
3	304	Primary Vibrating Screen (4 Nos.)	4 nos. Ok
4	305	Secondary Vibrating Screen (4 Nos.)	4 nos. Ok
5	306	NN 250 X 1200 mm Belt Conv.	Ok
6	307	NN 250 X 1200 Belt Conv.	Ok
7	308 (A-B)	NN 250 X 900 mm Belt Conv.	Ok
8	309		Ok
9	310	ST 1600 X 1050 mm Belt Conv.	Ok. 200 mtrs belt to be replaced in Jun'22
10	312 A	Conveyor	Ok, belt replaced. Heads and tail pulley lagging done.
11	314	NN 250 X 900 mm Conveyor	Ok
12	315	NN 250 X 900 mm Conveyor	Ok
13	315N1	NN 250 X 900 mm Conveyor	Ok
14	316	NN 250 X 900 mm Conveyor	Ok

15	317A & B	NN 250 X 900 mm Conveyor	Ok
16	318	NN 250 X 1050 mm Conveyor	Ok
17	923	NN 250 X 900 mm Belt Conv	Ok
18	925	NN 250 X 900 mm Belt Conv	Ok, 300 mtrs belt replaced. Head pulley and bend pulley lagging done.
Screening Plant-II & TCP (Mechanical)			
1	701	Vib. Feeder (18 Nos.)	13 nos. Ok, B/d: A2 – Carden shaft broken and spring to be replaced. A4- gear motor to be replaced. B3, B2 and C3 – overhauling is in progress.
2	702	NN 250 X 1050 mm Conveyor (6 Nos.)	6 nos. Ok.
3	704	Primary Vib. Screen (5 Nos.)	5 nos. Ok, A: gearbox replaced.
4	705	NN 250 X 1050 mm Conveyor	Ok, belt through cut 1.5 meter, running in observation with fastener.
5	706	Sec. Vib Screen (5 Nos.)	4 nos. Ok, C line – under chute overhauling is in progress.
6	707	NN 250 X 900 mm conveyor	Ok
7	708	NN 250 X1050 mm conveyor	Ok
8	709	NN 250 X1050 mm conveyor	Ok, Belt replaced.
9	712	NN 250 X1050 mm conveyor	Ok, 1.5 mtr. length belt cut. Running in patched condition. 40 mtrs. belt to be replaced.
10	712A	NN 250 X1050 mm conveyor	Ok, Gearbox to be replaced. Gear box not available.
11	713	NN 250 X1050 mm conveyor	Ok, Head snub pulley shell repaired, running under observation and needs to be replaced.
12	715	NN 250 X 900 mm Conveyor	Item kept out of circuit.
13	900	Flap Gate	Ok
14	901	NN 250 X 1200 mm Belt conv.	Ok
15	904	NN 250 X 1200 mm Belt Conv.	Ok
16	905	NN 250 X 1350 mm (Shuttle Conv.)	Ok
17	906	R&P Gates A, B & C (3 Nos.)	Ok, Bunker B line puncher repaired, running on patched condition.

18	907	Vib. Feeder A, B & C (3 Nos.)	3 nos. Ok, A line – overhauled
19	908	Ter. Cone Crusher A, B & C (3 Nos.)	3 nos. Ok, A line – Crusher changed.
20	909	EOT Crane	OK
21	910	NN 250 X 1050 mm Belt Conv	OK, A-line: Belt joint exposed. Fastening done. Running under observation.
22	911	Ter Vib Screen A, B & C (3 nos.)	OK
23	912	NN 250 X 1050 mm Belt Conv	Ok
24	914	NN 250 X 1050 mm Belt Conv	Ok, belt replaced.
25	916	NN 250 X 900 mm Belt Conv	Ok, head pulley lagging done.
26	918	NN 250 X 900 mm Belt Conv	Ok
27	918A	NN 250 X 900 mm Belt Conv	Ok
28	920	NN 250 X 1050 mm Belt Conv	Ok, Belt joint weakening, running under observation and belt to be replaced.
29	921	Vib Screen	Ok
30	921A	NN 250 X 1200 mm Belt Conv	Ok, belt ply exposed, running in patched condition. Belt to be replaced.
31	922	NN 250 X 1050 mm Belt Conv	Ok.
32	926	Vib Screen	Ok, drive side bearing replaced.
33	927	NN 250 X 900 mm Belt Conv	Ok, belt joint exposed, running under observation. Belt to be replaced.
34	315 N2	ST1000 X 1400 mm Belt Conveyor	Ok
<u>Loading Plant (Mechanical)</u>			
1	402 A & B	NN 250 X 1050 mm conveyor	Ok, A – line: 210 mtrs belt to be replaced. Drainage cleaning work is in progress.
2	403	NN 250 X 1200 mm Conveyor	Ok
3	404	NN 250 X 1200 mm Conveyor	Ok
4	405	Tripper	Ok
5	406	Vib. Feeder	5 nos. Ok, F Line not running, Gear box to be replaced. Gear box not available.
6	407	NN 150 X 1050 mm Conveyor	6 nos. Ok
7	408	NN 150 X 1050	6 nos. Ok

		mm Radial Conveyor	
8	409	Hydraulic Damper	5 no. Ok, F line: Wheel assembly & gear motor to be replaced. One wheel under repair at Machine Shop.
9	614	ST 2000 X 1200 mm Belt Conveyor	Ok, 210 mtrs. to be replaced.
10	615	NN 250 X 1200 mm F.O.S.	Ok, 40 mtrs belt to be replaced.
11	616	NN 250 X 1200 mm Reclaimer	Ok
12	617	NN 250 X 1200 mm Belt Conveyor	Ok, spilled material to be cleared.

3. CGM (Prod.)/ Mines Manager reviewed the requirement of spares as under:

3.1 Urgent Material/Spares required:

- a) The list of plant material/spares required urgently is placed at Annexure-I and Annexure-II. procurement of the same needs to be expedited.

Further, CGM (Prod.) noted that hardware items like Steel electrodes, Nut, bolts and washers needs to be procured timely to avoid interruption in maintenance activities.

Action: DGM (Matls.)

4. Other Points discussed:

- a) CGM (Prod.)/ Mines Manager directed for taking action on the following issues at the earliest:

- Housekeeping works need to be improved.
- Chute Jamming at Screening & Loading Plant to be minimized for uninterrupted production activities.
- Monthly Status of Painting related works of structures & equipment in plant area to be submitted.
- Provision for display of BC614 reading at both screening Plants.
- Monsoon preparatory plan to be submitted to Civil Department for completion before onset of the monsoon.
- PLC upgradation status to be submitted on monthly basis.

Action: All Concerned

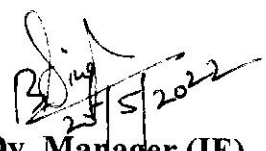
- b) CGM (Prod.)/ Mines Manager directed Civil department for taking action on the following works at the earliest:

- Grass cutting & bush cutting work at all plant area and conveyor gallery area.
- Floor repair work of CP-11C, 109 roof repair work and renovation of office at CP-11C & canteen area.
- BC 1117 conveyor gallery missing sheets to be fitted before monsoon.
- Completion of works related to fencing of BC 1117 (ground touching area). Work not in progress.

- Flooring work T-3 and BC 127 tail part area to be done to prevent damage of panels due to rainy-water.
- Construction of TH-03 store & T11-05 Store (required during installation of disc braking system at DH-11C).
- White-wash work at 122 Tunnel level area (damaged during Fire incident in Jan'2020).
- Replacement of GI sheets of Plant and conveyor covering area to be done for beautification of OCSL and execution of the work in phase manner (Initially in SP-I/II and BC310/614).
- Permanent approach road for maintenance gate required for shifting of material.
- Material spillage noticed from 1104 Apron feeder (CP-11B) roof area, needs to be repaired.
- Approach road to be made at backside of CISF check post of 11B for maintenance purpose. Forest Clearance is required for work initiation.
- 203 transfer point (Near SP-III construction area) approach road to be constructed immediately for shifting of resources at site (DH-14).
- The approach road to be cemented for BC 133 head part from main road & BC 127 head part.
- All motor room and conveyor gallery missing sheets to be fitted at DH 11C.
- Arco liners & Air blaster presently installed in critical area, now whenever it required to be installed.
- Construction of wall near T3 entrance as existing wall has fell down.
- T3, T4 & T5 floor area water accumulation issue to be resolved.
- Near PSP & 202: Repair work of bund and clearing of drainage before onset of monsoon.
- Enclosed room provision for 3 nos. PLC panels installed at BC1117.

Action: All concerned.

The meeting ended with vote of thanks to the chair.


Dy. Manager (IE)

Copy to:

1. All Concerned
2. ED (PC), NMDC Ltd., Hyd.
3. Mgr. (S) to Dir. (Prod.) - for kind information of Dir. (Prod.), Hyd.
4. Steno to ED - for kind information of ED

I. Mechanical Items**Annexure-I**

S.No	Item Code	Description	Qty	User Indent	Indent/ PO details	Remarks	Expected Delivery date
1	10D873915	Gear box for BC203	2	UI/113, 2.09.2020	PI No. 10D772 dated 13.12.2020	Revised indent PR 1400001311 dated 27.08.2021 has been forwarded to HO on 13.09.2021. Ordering stage in HO.	
2		Steel items including Plates, Channels , Angles		PR. No. 1000000200 dated 30.03.2021		Steel items are urgently required for overhauling of chutes and replacement of deformed structures. Enquiry Send to SAIL	Only Part Qty. of Angles , MS Plates received. Balnce items yet to be received.
3		Annual Indent for Bearings	PR Qty.	1000000098 dated: 13.03.2021		Ordered on M/s Artech Part quantity received.	
4		chains and sprockets			2000000333 Date : 13.03.2021	PO placed to M/s SR Engineers	Delivery date was 01-12-2021, dispatch to be expedited
5		Frames for 1500mm Belt Width	15 sets		KDL 718220	PO placed to M/s Grewal rollers	Manufacturing under progress.
6		Gear and pinion for 1104	Set	1400001187 dated 7.08.2021		Order Placed on M/s Shri Maha Lakshmi : 2400002236 Date : 18.12.2021	Delivery is expected by 15.06.2022
7		Annual Indent for Couplings		1000000310 dated 2.06.2021		The indent is in TSC stage	
8		Critical Apron feeder Spares		1400000791 dated 24.05.2021		2400003016 Date : 25.02.2022	order placed on M/s TPI Under carriage. Rollers for 101 under retendering.

I. Electrical Items
Annexure-II

S.No	Item Code	Description	Urgently Required Qty	Pending Order/Purchase indent	Expected Delivery date/status	Present status
1	10F	Procurement of spare motor for C-614 (250 KW) and C-904 (190 KW)	i) 250 kW-2 Nos. ii) 190 kW-1 Nos.	BKMM/10F728/ET/383/57; dated 24.04.2022.	Within 7-8 month from date of	PO issued on M/s Electrical point.
2	10F	37 kW geared Motor,415 V for 407 BC of L/P	3	BKMM/1400000214/ET/111. dated 09.12.2021	within 24 weeks from issue of P.O.(Drawing approved and sent on 08.12.2021)	P.O issued to M/s BONFIGLIOLI TRANSMISSIONS PRIVATE Ltd.Material dispatch 09.5.2022.
3	10F	15 kW geared Motor,415 V for 408 BC of L/P	3			
4	10 F	Procurement of Spares for PBL MAKE BELT SCALES AT OCSL PLANT	Indent Qty	SAP PR 1000000231	04.02.2022	Material reached at site.
5	10 F	Procurement of Power Cable (4C X 35Sqmm) for new Road weigh bridge (MV siding) & 10 KVA Online UPS	a) CABLE 2500 Mtr. B) UPS- 2 nos.	SAP PR 1400000243 dated 24.02.2021. SAP PR 1100000191 dated 26.04.2021.		UPS Material received at site.power Cable not yet received.
6	10F	Supply of MOTOR SQ.CAGE IND 55KW,3PH,1480 RPM	1	PO 2000001362 dated 02.07.2021 placed on ANMOL SALES AND SERVICES.	01.02.2022.	Material not received (contact person-9752598803).material not yet received.
7	10F	Supply of MOTOR SQ.CAGE IND 15KW,3 PH,970 RPM	1	PO 2000001362 dated Date : 02.07.2021 placed on ANMOL SALES AND SERVICES.	01.01.2022	PO canceled (retender)
8	10F	Supply of 3PH IND MOTOR 132 KW 415 V AC, 1485 RPM,	Indent Qty	PO BKMM/10F730/7379 dated Date : 14.12.2020 placed on ANMOL SALES AND SERVICES.	13.06.2021	PO cancelled (retender)

S.No	Item Code	Description	Urgently Required Qty	Pending Order/Purchase indent	Expected Delivery date/status	Present status
9	10F	Supply,installation & commissioning of CCTV at CP/DH-14	Indent Qty	PR No.1100000350 dated 27.08.2021		Bid Gem opened on 12.05.2022
10	10F	Supply,installation & commissioning of CCTV at SP-I	Indent Qty	PR No.1100000289 dated 12.08.2021		Bid Gem to be floated.
11	10F	Supply,installation & commissioning of CCTV at CP/DH-11B	Indent Qty	PR No.1100000234 dated 02.07.2021		Bid Gem opened on 12.05.2022
12	10F	Supply,installation & commissioning of CCTV at CP/DH-11C	Indent Qty	PR No.1100000283 dated 02.08.2021		Bid Gem to be floated.
13	10F	Supply, installation of new heavy duty electronic pit-less type 100 Tonnes Road Weigh Bridges with digital load cells at A-Line inside Loading plant premise.	1	PR No.1100000517 ,Dated 28.11.2021.	08.05.2022	PO issued on SS techno solutions.Due date of delivery on or before 08.05.2022.Material not yet received.