

Annexure 3

Recommendations of the 53rd RMOc Meeting

Sl.	Idea taken by (Plant, Mill)		Idea from	Idea to be implemented	Time frame
1.	AMNS, Hazira	HSM	SAIL-RSP	Installation of furnace viewing camera	4-5 months
2.	ESL, Bokaro	Bar Mill & WRM	TSL, Tarapur	Knowledge sharing with video kiosk	1 Year
3.	JSHL, Hisar	Steckel Mill	JSW, Dolvi	Stop RBL at tail end just before stand unload to avoid cobble	15 to 30 days
4.	JSHL, Hisar	Steckel Mill	SAIL-RSP	Camera to be fitted to watch hot slab in furnace	Within 6 months
5.	JSHL, Hisar	Steckel Mill	Lechler India	Roll cooling nozzle with filter to be used	Within 3 months
6.	JSIS, Oman	SRM	TSL, Tarapur	Online monitoring of energy consumption	Apr-2020
7.	JSIS, Oman	SRM	TSL, Tarapur	SOP in video kiosk	Jul-2020
8.	JSIS, Oman	SRM	GE Power	Electrical signature analysis	Next financial year
9.	JSIS, Oman	SRM	Nord Drive	Predictive maintenance	Next financial year
10.	JSIS, Oman	SRM	Lechler India	Use of anti clogging nozzles	Jun-2020
11.	JSIS, Oman	SRM	SAIL-DSP	Active roll pass lubrication system	Jun-2020
12.	JSIS, Oman	SRM	TSL, Tarapur	Key in rest bar for individual pass to eliminate misalignment	Jun-2020
13.	JSPL, Angul	Bar Mill	SAIL-ISP	Use of roller guide hybrid bearing	Immediately
14.	JSPL, Angul	Bar Mill	JSIS	Section change time reduction	Immediately
15.	JSPL, Angul	Bar Mill	JSIS	Reduction in cobble retention time	Immediately
16.	JSPL, Angul	Bar Mill	JSIS	Performance ramp up	Immediately
17.	JSPL, Angul	Plate Mill	NISP	Intensive cooling system during intermediate passes	1 yr
18.	JSPL, Angul	Plate Mill	AMNS	Control of sticky scale through high temperature rolling in silicon bearing grades	As and when required
19.	JSPL, Patratu	Bar Mill	SAIL-ISP	Guide failure analysis to be done	1 Year
20.	JSPL, Raigarh	Plate Mill	Lechler India	Improving secondary descaling with new nozzles to eliminate sticky/red colour scale	6 months
21.	JSW, Bellary	HSM	AMNS	Control of sticky scale through high temperature rolling in silicon bearing grades	1 month
22.	JSW, Bellary	HSM	SAIL-RSP	Skid flushing in reheating furnace	1 yr

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23.	JSW, Bellary	HSM	TSL, Kalinganagar	Reduction of downcoiler cobble using centreline deviation feedback	1 month
24.	JSW, Bellary	WRM	TSL, Tarapur	Knowledge sharing with video kiosk	2 Months
25.	JSW, Dolvi	HSM	TSL, Kalinganagar	Short stroke adjustment in DC guide in HE before pinch roll in thicker gauge	Within 30 days
26.	Mukand, Mumbai	Bar Mill	TSL, Tarapur	Automatic SOP Display at prominent location	3 Months
27.	Mukand, Mumbai	Bar Mill	TSL, Tarapur	On job training to new comers on day to day basis	End of April 2020
28.	Nalwa, Raigarh	Bar Mill		Double strand TMT rolling with combination of different section from 8mm to 20mm	1 Month &
29.	Nalwa, Raigarh	Bar Mill		Introduction of guide without reel in roughing mill to avoid guide failure	6 Month
30.	NISP, Nagarnar	HSM	JSW, Dolvi	Reduction in cobble by making RBL flow zero after 20 sec i.e. before stand unloading	After plant commission
31.	NISP, Nagarnar	HSM	GE Power	APM for rotating machine using electrical signature analysis	After plant commission
32.	RINL-VSP, Vizag	MMSM	SAIL-DSP	Reduction in min. temperature of the section from 100-150 °C to 60-80 °C before straightener	1 Year
33.	RINL-VSP, Vizag	MMSM, All Mills	TSL	Digital SOP kiosk on shop floor	2-3 Years
34.	RINL-VSP, Vizag	SBM	SAIL-DSP	Pass life improvement using oil spray	1 Year
35.	RINL-VSP, Vizag	SBM	Mukand	Guide restbar/nozzle modification	1 Year
36.	SAIL-ASP, Durgapur	BBM	TSL, Tarapur	Digitalization of SOP: adopting kiosk (touch screen interface) to serve as an easy tool for learning and skill transfer	6 Months
37.	SAIL-BSL, Bokaro	HSM	AMNS	Control of sticky scale through high temperature rolling in silicon bearing grades	As and when required
38.	SAIL-BSP, Bhilai	WRM	RINL (VSP)	Change box pass to oval pass. Explore the possibility w.r.t % reduction & roll load	3 Months
39.	SAIL-BSP, Bhilai	WRM	SAIL-DSP	Guide material change and guide modification for stand 9; Use of CR steel castings	6 Months
40.	SAIL-BSP, Bhilai	WRM	TSL, Jamshed pur	Lead screw mechanism instead of monkey bar in rest bars to improve pass change process	1 Year
41.	SAIL-BSP, Bhilai	WRM,URM, RSM, BRM	TSL, Tarapur	Video SOP kiosks for skill transfer	2 Months

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42.	SAIL-BSP, Bhilai	WRM, URM, RSM, BRM	JSIS	CAPA of every failure-breakdowns of previous day by a dedicated combined team of Elec-Mech-Opr	1 Month
43.	SAIL-BSP, Bhilai	WRM, URM, RSM, BRM	TSL, Tarapur	Online specific power tracking system	6 Months
44.	SAIL-BSP, Bhilai	Plate mill	AMNS	Removal of red scale to eliminate rolled in scale in mills with lower descaling pressure	1 Month
45.	SAIL-DSP, Durgapur	Merchant Mill	TSL, Tarapur	Rest bar modification to avoid delivery knocking	1 Year
46.	SAIL-DSP, Durgapur	Merchant Mill	JSIS	Analysis after each b/d protocol to be made to avoid further cobble generation	1 Year
47.	SAIL-DSP, Durgapur	Merchant Mill	TSL, Tarapur	Video kiosk	1 Year
48.	SAIL-DSP, Durgapur	Section Mill	JSIS	Maintenance plan to be submitted by each agency by 9 am everyday so that all jobs are executed during stoppage	1 Year
49.	SAIL-ISP, Burnpur	BRM	TSL, Tarapur	Video sop kiosk	1 Year
50.	SAIL-ISP, Burnpur	URM	SAIL-BSP	Install of extra nozzle for cooling vertical roll in uni-mode	9 Months
51.	SAIL-RSP, Rourkela	CRM	JSW, Bellary SAIL-RDCIS	Improvement in roll cooling system	1 yr
52.	SAIL-RSP, Rourkela	New PM	Lechler India	Roll cooling spray technology , flat jet nozzles	1 yr
53.	SAIL-RSP, Rourkela	Plat Mill	JSL	Use of positive displacement pump in descaling system for energy saving	1 year
54.	SAIL-RSP, Rourkela	Plate Mill	SAIL-BSL	Correction of mill geometry	1.5 yr
55.	SAIL-RSP, Rourkela	SSM	JSW, Bellary	Elimination of coil break line (CBL) defect	1 yr
56.	SAIL-SSP, Salem	HRM	SAIL-CET	Checking the housing geometry	3 months
57.	SAIL-SSP, Salem	HRM	Lechler India	Check healthiness of roll cooling nozzle pattern for roughing mill	3 months
58.	Tata Steel BSL, Angul	CRM	SAIL-BSL	Roll neck lubrication modification	12 months
59.	Tata Steel BSL, Angul	CRM	Lechler India	Using new work roll spray jet nozzles, use of self alignment nozzles for work roll headers	12 months
60.	Tata Steel BSL, Angul	CRM	Supreme Roll	Quality check of new rolls, cutters, shears, arbours for HRS/Trimmer/Mill/CRS & CTL	6 months
61.	Tata Steel BSL, Angul	CRM	TS BSL, Khopoli	Shape control of side slits coils	3 months
62.	Tata Steel BSL, Angul	HSM	Nord Drive	Charging roller table coupling / Gear box modification	6 months

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63.	Tata Steel BSL, Khopoli	6 HI CRM	Lechler India	Roll coolant header and nozzle for effective roll cooling	Immediately
64.	Tata Steel BSL, Khopoli	WCRM	JSW, Bellary	Coolant concentration for proper lubrication to address CBL	Immediately
65.	Tata Steel BSL, Khopoli	WCRM	Tata Steel BSL	Pickling of IF coil at low speed	Immediately
66.	Tata Steel BSL, Khopoli	WCRM	GE Power	Feasibility of electrical signature analysis	6 months
67.	Tata Steel BSL, Khopoli	WCRM	SKF	Feasibility of reuse of oil	6 months
68.	Tata Steel BSL, Khopoli	WCRM	Norton	Case study for the chattering mark (audit of grinding machine)	6 months
69.	Tata Steel BSL, Khopoli	WCRM	TS BSL, Angul	Conversion of discard rolls to reduce roll cost	Immediately
70.	Tata Steel BSL, Sahibabad	CRM	TS BSL, Angul	Improvement of TE parameters	As soon as possible
71.	Tata Steel BSL, Sahibabad	CRM	Lechler India	Using new work roll spray jet nozzles	12 months
72.	Tata Steel, Jamshedpur (Jsr)/Tarapur	Long Product (LP) Mill	Mukand	The gap between delivery guide & bar to be less than 5 mm	1 year
73.	Tata Steel, Jsr/Tarapur	LP Mill	Mukand	Take entry & delivery guide close to roll pass as possible	1 year
74.	Tata Steel, Jsr/Tarapur	LP Mill	SAIL	Improving the laying head ring pattern by monitoring slippage at pinch roll	1 year
75.	Tata Steel, Jsr/Tarapur	LP Mill	SAIL	Improving finishing roll life by excessive cooling	1 year
76.	Tata Steel, Jsr/Tarapur	LP Mill	JSW, Salem	Controlling surface defects in high carbon wire rods as per practises of JSW Salem	1 year
77.	Tata Steel, Jamshedpur	HSM	AMNS	Control of sticky scale through high temperature rolling in Silicon bearing grades	As and when required
78.	Tata Steel, Jamshedpur	WRM	TSL, Tarapur	Video kiosk at shop floor for SOP/knowledge transfer	1 year
79.	Tata Steel, Kalinganagar	HSM	SAIL-BSL	Detection of severe hook up by RM by installing mechanical arrangement with PS	8 months
80.	Tata Steel, Kalinganagar	HSM	AMNS	Control of sticky scale in Si-bearing grade by increasing slab drop out temp. >1240 °C	6 months
81.	TSLP, Jamshedpur	LP Mill	SAIL-DSP	Oil water mix roll coolant to increase roll life in section mill	1 year
82.	TSLP, Jamshedpur	LP Mill	SAIL-DSP	3 High reversible slow speed	1 year