	STAR RATING OF AN OPENCAST COAL MINES - DRAFT EVALUATION TEMPLATE											
Sr No.	Evaluation Parameter	Required/target/statutorily specified Value	Actual value	Rating points (1-5) Criteria	Maximum points	Points given	Multiplying factor	Points Scored	Details submitted by the mine	Rationale for points		
	MODULE 1 - MINE GEOMETRY AND OB DUMPS											
1	Haul Road Gradient	as per permission		% length within permissible limit (1 for >50% and 5 for >90%)	3	4	0.6	2.4				
2	Haul Road width (m)	3 X dumper width + 5 m		% haul road length where width within permissible limit (1 for 60% and 5 for 100%)	3		0.6	0				
3	Slope of final batter	Permitted Slope as per PR or geo- technical study		% increase in angle over permission (1 for 8%or more and 5 for 0% or less)	3		0.6	0				
4	Fencing around OC	As per DGMS provision	Yes/No	% length fenced as per permisiion (1 for 60% and 5 for 100%)	1		0.2	0				
5	Garland drain around OC	Length as per mine plan	Yes/No	% length made as per permisiion (1 for 60% and 5 for100%)	1		0.2	0				
6	OB Removal (M Cu.m)	Target		% achievement (1 for 80% and 5 for100%)	3		0.6	0				
7	OB Dump height	as per permission from DGMS	Yes/No	% increase in height (1 for 15% or more and 5 for 0% or less)	3		0.6	0				
			MODULE 2 - ENV	IRONMENT RELATED PARAMETER	RS							
8	Dust supression measures as per PR/EMP	No. of water tankers required -	No. of water tankers provided-	% nos provided (1 for 60% and 5 for100%)	1		0.2	0				
	FN/ LIVIF	No. of drills operating -	No. of drills provided with wet drilling arrangaments -	% nos provided (1 for 60% and 5 for100%)	1		0.2	0				
	Applicant Ala Quality	Required frequency of monitoring	Actual montoring frequency	% achieved (1 for 80% and 5 for100%)	1		0.2	0				
9	Ambient Air Quality	Required quality standard to be met	Actual standard observed	% nos within limit (1 for 80% and 5 for100%)	1		0.2	0				
		Required frequency of monitoring	Actual montoring frequency	% achieved	1		0.2	0				
10	Monitoring of surface water quality	Required quality standard to be	Actual standard observed	(1 for 80% and 5 for100%) % nos within limit	1		0.2	0				
11	Water conservation	met Actions required as per provisions	No. of prescribed actions being taken in actual	(1 for 80% and 5 for 100%) % achievement (1 for 60% and 5 for 100%)	1		0.2	0				
12	Mine water utilization	Total discharge	Total Utilized	% utilised (1 for 80% and 5 for100%)	1		0.2	0				
13	Submission of EMP compliance report	All compliance reports need to be submitted in time	Yes/No	Yes (1 points) No (0 points)	1		1	0				

14	Whether Energy audit was undertaken within 5 years	There should be atleast 1 such audit in 5 years	Yes/No	Yes (1 point) No (0 point)	1	1	0	
15	Implementation of recommendations of Energy Audit	Nos. of recommendations made	Nos. of recommendations implemented	% achievement (1 for 80% and 5 for100%)	2	0.4	0	
16	Compliance of EC and FC related violations			% violations complied (5 for 80% and 0 for100%)	0	-0.2	0	
17	Back-filling of OBR	Target as per plan (M Cu.m)	Actual	% achievement (1 for 60% and 5 for100%)	4	0.8	0	
	Biological Reclamation of area affected	Target Area (Ha)	Actual	% achievement (1 for 80% and 5 for 100%)	2	0.4	0	
18	by mining	Target Plantation (Nos.)	Actual	% achievement (1 for 80% and 5 for 100%)	2	0.4	0	
19	Use of renewable energy resources such as solar, wind etc	Targetted installation (KW)	Actually Installed (KW)	% achievement (1 for 80% and 5 for 100%)	2	0.4	0	
		Planned stacking (M Cum)	Actual	% achievement (1 for 80% and 5 for 100%)	2	0.4	0	
19	Top Soil Utilization	Planned Utilization (M Cum)	Actual	% achievement (1 for 80% and 5 for 100%)	2	0.4	0	
		M	ODULE 3 - ADOPTIO	ON OF Technology: Best mining pro	actices	-	<u> </u>	
20	Has the Quality Management System Standard (ISO:9001) been implemented in the mine? Has it been certified?	Name of Certifiation body, Period of Valdity (fromto):		Certification valid in the period of reporting year (1 points) There is no valid certificate and submission was also not done in reporting year (0 point)	1	1	0	
21	Has the Environment Management System Standard (ISO:14001) been implemented in the mine? Has it been certified?	Name of Certifiation body, Period of Valdity (fromto):		Certification valid in the period of reporting year (1 points) There is no valid certificate and submission was also not done in reporting year (0 point)	1	1	0	
22	Use of State of art technology in communication e.g. walkie talkie	OITDS,		use of advance technology (2 points) absence of new technology (0 point)	2	1	0	
23	Use of blastfree technologies e.g.surfaceminer etc.	% of production through surface miner/inpit crushing		% achievement (1 for 60% and 5 for100%)	2	0.4	0	
24	use of latest technology & software in planning & surveying e.g. total stations,	Slope stability radar, total station		1 for each technology	2	1	0	

25	use of upgarded technology in conveying of material e.g. use of High angle conveyours,inpitcrusher & conveying sysytem	% of production using conveyors		% achievement (1 for 30% and 5 for60% & above)	2	0.4	0				
	MODULE 4 - ECONOMIC PERFORMANCE RELATED PARAMETERS										
26	Achievement of coal production target in reporting year	Target (MT)	Actual Production - % Achievment -	% achieved (1 for 80% and 5 for100%)	3	0.6	0				
27	Achievement of coal despatch target in reporting year	Target (MT)	Actual despatch - % Achievment -	% achieved (1 for 80% and 5 for100%)	3	0.6	0				
28	Capacity utilization	Mine capacity as assessed by CMPDI (M Cu.m)	Actual Capacity achieved - Capacity Utilization % -	% achieved (1 for 80% and 5 for100%)	3	0.6	0				
29	Impact of grade slippage (Realization Percentage)	Expected realization as per the declared grade (Rs./T)	Actual Realization - Realaization % -	% achieved (1 for 90% and 5 for100%)	3	0.6	0				
30	Utilization of budget for capital expenditure	Capital Budget -	Capital Utilization - % Capital Utilization	% achieved (1 for 80% and 5 for100%)	3	0.6	0				
		MODU	LE 5 - REHABILITATI	ON & RESETTLEMENT RELATED P.	ARAMETERS						
31	Survey for identification of Project affected families, families to be displaced, compensation to be paid for houses and other properties, persons losing livelihood etc.	Whether a formal survey has been done in line with existing R&R Policy?	Yes/No	Yes (1 point) No (0 point)	1	1	0				
		Whether all stipulated facilities have been provided?	Yes/No	% expenditure as per PR (1 for 90% and 5 for100%)	1	0.2	0				
32	Status of Rehabilitation Site	Whether periodic maintanance of RR site is being done ?	Yes/No	Yes (1 point) No (0 point) N.A.	1	1	0				
			No. of such families/persons provided direct employment -		1	0.2	0				
33	Whether alternate arrangements for sustainable livelihood have been made	Number of identified families/persons who lost livelihood	No. of such families/persons provided indirect employment -	% achieved (1 for 60% and 5 for100%)	1	0.2	0				
			No. of such families/persons provided skill development and vocational training -		1	0.2	0				
34	Whether a public grievance redressal mechanism is in place for dealing R&R and other connected issues	To be provided	Yes/No	Yes (1 point) No (0 point)	1	1	0				

								PERCENTAGE SCORE	STAR RATING
	MODULE	SUM OF MAXIMUM POINTS IN APPLICABLE PARAMETERS		SUM OF POINTS SCORED IN APPLICABLE PARAMETERS	PERCENTAGE			CRITERION FO	R STAR RATING
50	Assessment in the annual safety week	was assessed	Actual % obtained	(1 for 80% and 5 for100%)	16	0.4	0		
49	Risk assessment based safety management system	There should be one such system in place Maximum marks at which mine	Yes/No	Yes (5point) No (0 point) %marks obtained	5	1	0		
48	Strength of stautory personnel	Nos. required	Actual	%deployed (1 for 60% and 5 for100%)	2	0.4	0		
47	Utilization of safety budget	Budget	Utlization %	%utilised (1 for 60% and 5 for100%)	4	0.8	0		
46	IT initiaties to check pilferage			Yes (1 point) No (0 point)	1	1	0		
45	No of serious bodily injuries in recording year (Note: figures of the previous financial year to be considered and not the	Nil		(-1)for every serious bodily injury	0	1	0		
44	No of fatal accidents in recording year (Note: figures of the previous financial year to be considered and not the calender year)	Nil		(-3) for every casualty	0	1	0		
43	No of disasters in recording year (Note: figures of the previous financial year to be considered and not the calender year)	Nil		-10 for every disaster incident	0	1	0		
42	Pit safety committee meetings	No. of Required meetings	Actual	%meetings conducted (1 for 60% and 5 for 100%)	1	0.2	0		
41	Safety audit	Whether Safety audit was undertaken in reporting year	Yes/No	Yes (1 point) No (0 point)	1	1	0		
40	Imposition of Sec-22 in the mine	Nil	Actaul nos. of orders notices issued under Section-22	(-3) for each such order/notice	0	1	0		
	TOTALIS TOTAL		MODULE 7 - SAFETY	and SECURITY RELATED PARAM	ETERS	•	•	•	
39	Whether 20% of workers were given vocational training in reporting year as per requirement of Mines Vocational Training Rules 1966	Target	Actual	% achievement (1 for 60% and 5 for100%)	2	0.4	0		
38	Whether sanitation provision has been made according to Mines rules 1955 requirement of toilets etc	List the provisions required to be nade in the mine	Actual provided	% achievement (1 for 60% and 5 for100%)	2	0.4	0		
37	PME conducted as per the requirement of once in 5 years (once in 3 years for 50+ age)	Target	Actual	% achievement (1 for 60% and 5 for100%)	2	0.4	0		
36	Expenditure on Welfare Activities	Committed Expenditure	Actual	% expenditure (1 for 60% and 5 for100%)	2	0.4	0		
		MODU	LE 6 - EMPLOYEE/W	ORKER RELATED COMPLIANCE P	ARAMETERS		•		
				(1 for 80% and 5 for 100%)		<u>L</u>	<u> </u>		

MODULE 1 - MINING OPERATIONS RELATED PARAMETERS	17	2.4			91 TO 100%	5 STAR
MODULE 2 - ENVIRONMENT RELATED PARAMETERS	26	0			81 TO 90%	4 STAR
MODULE 3 - ADOPTION OF Technology: Best mining practices	10	0			71 TO 80%	3 STAR
MODULE 4 - ECONOMIC PERFORMANCE RELATED PARAMETERS	15	0			61 TO 70%	2 STAR
MODULE 5 - REHABILITATION & RESETTLEMENT RELATED PARAMETERS	8	0			41 TO 60%	1 STAR
MODULE 6 - EMPLOYEE/WORKER RELATED COMPLIANCE PARAMETERS	8	0			0 TO 40%	NO STAR
MODULE 7 - SAFETY RELATED PARAMETERS	16	0				
GRAND TOTAL	100	2.4	2.40%			
NAME OF THE COAL MINE						
DISTRICT						
STATE						
STAR RATING		 				