STAR RATING OF AN UNDERGROUND COAL MINES - DRAFT EVALUATION TEMPLATE											
Sr No.	Evaluation Parameter	Required/target/statutorily specified Value	Actual value	Rating points	Maximum	Points	Multiplying factor	Point scored	Rationale for points		
MODULE 1 - MINE GEOMETRY											
1	Pillar Size	Size as per permission		%number of pillars within permissible limit (1 for >50% and 5 for >90%)	2	2	0.4	0.8			
2	Height of galleries	As per permission		% length within permissible limit (1 for >50% and 5 for >90%)	2		0.4	0			
3	Width of galleries	As per permission		% length within permissible limit (1 for >50% and 5 for >90%)	2		0.4	0			
4	Panelization of UG workings	Yes	Yes/No	3 Points - If Yes Other cases - 0 Point	2		1	0			
5	In case of depillaring with Caving - Area of uncaved roof	Maximum permissible uncaved area		% uncaved area within permissible limit (1 for >50% and 5 for >90%)	2		0.4	0			
6	In case of depillaring with stowing - Status of stowing	Maximum permissible un-stowed residual void		% stowed area within permissible limit (1 for >50% and 5 for >90%)	2		0.4	0			
MODULE 2 - Mine ENVIRONMENT RELATED PARAMETERS											
7	Dust supression measures as per	Water sprinkling arrangament in UG workings as per statute	Number of faces covered	%achieved (1 for 60% and 5 for 100%)	1		0.2	0			
,	PR/EMP	Quanatity of Stone dusting used as per annual production	Actual	%achieved (1 for 60% and 5 for100%)	1		0.2	0			
8	Mine water utilization	Total discharge	Total Utilized	% utilised (1 for 80% and 5 for 100%)	2		0.4	0			
9	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			
10	Implementation of recommendations of Energy Audit	Nos. of recommendations made	Nos. of recommendations implemented	% achievement (1 for 80% and 5 for 100%)	1		0.2	0			
				JLE 3 - ADOPTION OF Tec	hnology: B	est mini	ing praction	ces			
11	Use of State of art technology in communication e.g. telephone	Telemonitoring system, multi gas detector, under ground telephone, LED cap lamp		1 point for each technology	4		1	0			
12	Use of mining technologies	Use of continuous miner, use of UDM, use of rasin capsule for support, man riding		1 for each technology	4		1	0			
		MODULE 4 -	ECONOMIC PERFORMA	ANCE RELATED PARAMET	ERS	•	•				
13	Achievement of coal production target in reporting year	Target (MT)	Actual Production - % Achievment -	% achieved (1 for 80% and 5 for100%)	3		0.6	0			
14	Achievement of coal despatch target in reporting year	Target (MT)	Actual despatch - % Achievment -	% achieved (1 for 80% and 5 for100%)	3		0.6	0			
15	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			
16	Impact of grade slippage (Realization Percentage)	Expected realization as per the declared grade (Rs./T)	Actual Realization - Realaization % -	% achieved (1 for 80% and 5 for100%)	3		0.6	0			
17	Growth in OMS	OMS of preveiuos year -	OMS of present year - Growth % -	% achieved (1 for 80% and 5 for100%)	3		0.6	0			

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18	Utilization of budget for capital expenditure	Capital Budget -	Capital Utilization - % Capital Utilization	% achieved (1 for 80% and 5 for100%)	3		0.6	0			
	MODULE 5 - REHABILITATION & RESETTLEMENT RELATED PARAMETERS										
19	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			
20	Status of Rehabilitation Site	Whether all stipulated facilities have been provided?targetted expenditure	expenditure done	% expenditure as per PR (1 for 90% and 5 for100%)	1		1	0			
20		Whether periodic maintanance of RR site is being done ?	Yes/No	Yes (1 point) No (0 point) N.A.	1		1	0			
	Whether alternate arrangements for sustainable livelihood have been made for persons who lost their livelihood due to Project		No. of such families/persons provided direct employment -	Au v	1		0.2	0			
21		Number of identified families/persons who have lost their livelihood	No. of such families/persons provided indirect employment - No. of such families/persons provided skill development and vocational training -	% achieved (1 for 60% and 5 for100%)	1		0.2	0			
		who have lost their livelihood			1		0.2	0			
	MODULE 6 - EMPLOYEE/WORKER RELATED COMPLIANCE PARAMETERS										
22	Expenditure on Welfare Activities	Committed Expenditure	Actual	% expenditure (1 for 60% and 5 for100%)	3		0.6	0			
23	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%)	3		0.6	0			
24	Sanitation provisions as per Mines Rules 1955	List the provisions required to be nade in the mine	Actual provided	% achievement (1 for 60% and 5 for100%)	3		0.6	0			
25	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			
		MODULE	7 - SAFETY and SECURIT	Y RELATED PARAMETER	S						
26	Imposition of Sec-22 in the mine	Nil	Actaul nos. of orders/notices issued under Section-22	(-5) for each such order/notice	0		1	0			
27	Safety audit of mine	Whether Safety audit was undertaken in reporting year	Yes/No	Yes (2 point) No (0 point)	2		1	0			
	Standard of Illumination	No. fo surveys required to be conducted	Actual	% achievement (1 for 60% and 5 for100%)	1		0.2	0			
28		No. of readings recorded during the year	No. of readings not conforming to prescribed standard	(-) 0.5 point for each unconformity	0		1	0			
29	Standard of Ventilation	Required quantity of air in the last VC	Actual	% achievement (1 for 60% and 5 for100%)	2		0.4	0			
		Required VEQ	Actual	% achievement (1 for 60% and 5 for100%)	1		0.2	0			
		Required frequency of gas survey	Actual	% achievement (1 for 60% and 5 for100%)	2		0.4	0			
		Existence of SSR	Yes/No	Yes (2 points) Else - 0	2		0.4	0			
20	Cupport	Adherence to SSR at all places	number of faces adhered to SSR.	% achievement (1 for 60% and 5 for100%)	2		0.4	0			

Whether the stability of roof and Yes (2 points) pillars is being monitored regularly by 2 0.4 0 Yes/No Else - 0 a geo-technical cell constituted for the purpose Nos. required as per the existing % achievement 31 3 0.6 Provision of man-riding system manpower and distance of travel Actual 0 (1 for 60% and 5 for 100%) involved % achievement 32 Light weight LED lamps Nos. required to be provided Actual 2 0.4 0 (1 for 60% and 5 for 100%) % achievement 33 Pit safety committee meetings No. of Required meetings Actual 2 0.4 0 (1 for 60% and 5 for 100%) No of disasters in recording year Note: figures of the previous financial 34 Nil -10 for every disaster incident 0 0 year to be considered and not the calender year) No of fatal accidents in recording year Note: figures of the previous financial 35 Nil (-5) for every casualty 0 1 0 year to be considered and not the calender year) No of serious bodily injuries in recording year (Note: figures of the previous financial 0 0 Nil (-2)for every serious bodily injury 36 1 year to be considered and not the calender year) No of dangerous occurances in recording year (-1) for every such reportable 37 Nil 0 (Note: figures of the previous financial 0 incident year to be considered and not the calender year) Yes (1 point) 38 IT initiaties to check pilferage 1 1 0 No (0 point) % achievement 39 Utilization of safety budget Actual Budget Actual Utilization % 2 0.4 0 (1 for 60% and 5 for 100%) % achievement 0 40 Strength of stautory personnel Nos. required 3 0.6 Actual (1 for 60% and 5 for 100%) Risk assessment based safety There should be one such system in Yes (2 point) 0 41 2 Yes/No 1 management system place No (0 point) Maintainence of all important No. of plans to be maintained (Give % achievement 0.8 0 42 statutory plans including emergency Actual 4 (1 for 60% and 5 for 100%) the List the Plans at Annexure) action plan Existence of various SOPs/Code of No. of required SOPs/Code of % achievement 43 2 0.4 0 Actual practice for practices (Give the list at annexure) (1 for 60% and 5 for 100%) Installed telemonitoring system for Yes (2 point) 44 2 0.4 0 Yes/No monitoring of gases No (0 point) Maximum marks at which mine was % achievement 45 Assessment in the annual safety week Actual % obtained 2 0.4 0 (1 for 60% and 5 for 100%) assessed SUM OF POINTS SCORED IN SUM OF MAXIMUM POINTS IN MODULE PERCENTAGE **CRITERION FOR STAR RATING** APPLICABLE PARAMETERS APPLICABLE PARAMETERS PERCENTAGE STAR RATING SCORE MODULE 1 - MINING OPERATIONS 12 0.8 91 TO 100% RELATED PARAMETERS **MODULE 2 - ENVIRONMENT RELATED** 6 0 81 TO 90% 4 STAR **PARAMETERS MODULE 3 - ADOPTION OF** 8 71 TO 80% 3 STAR INTERNATIONAL STANDARDS MODULE 4 - ECONOMIC PERFORMANCE RELATED 18 0 61 TO 70% 2 STAR PARAMETERS **MODULE 5 - REHABILITATION &** RESETTLEMENT RELATED 6 0 41 TO 60% 1 STAR PARAMETERS **MODULE 6 - EMPLOYEE/WORKER** 0 0 TO 40% NO STAR 11 RELATED COMPLIANCE PARAMETERS MODULE 7 - SAFETY RELATED 39 0 PARAMETERS

	GRAND TOTAL	100	0.8	0.80%			
	NAME OF THE COAL MINE						
	DISTRICT						
	STATE						
	STAR RATING						