MINES SAFETY WEEK - 2018 DETAILS OF PARTICIPATING MINES

S No	DESCRIPTION		1 MINE	2 MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
1.0	NAME OF THE MINE									
2.0	NAME OF THE OWNER									
3.0	DATE OF INSPECTION									
4.0	SUBJECT	MAX (MARKS)								
4.1	SAFE MINE WORKING	100								
4.2	LOADING & TRANSPORTATION	100								
4.3	DRILLING & BLASTING	100								
4.4	HEAVY EARTH MOVING EQUIPMENTS	100								
4.5	ELECTRICAL INSTALLATIONS	150								
4.6	ENVIRONMENTAL, HEALTH & SKILL MANAGEMENT	150								
4.7	SWACHH BHARAT	100								
4.8	RISK ASSESSMENT, SAFETY MANAGEMENT PLAN AND SOP'S	100								
4.9	CRUSHER & BELT CONVEYOR	100								
	TOTAL	1000								
5.0	TEAM MEMBERS & SIGNATURES									
	A. OBSERVER									
	B. CONVENOR									
	C. MEMBER MANAGER									
	D. MEMBER ENGINEER									

S No		DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
1.0	4.1	SAFE MINE WORKING	100								
	а	Over Burden Bench - Height, Width & Supervision	10								
	b	Mineral Bench - Height, Width & Supervision	15								
	с	Straightening of the face, free from Boulders, Preparation of bench floor & Drainage system	10								
	d	Strata Control Measures	5								
	е	Dump Management	5								
	f	Parapet Walls, Embankments & Fencing around Mine Workings	10								
	g	Maintenance of Haul Roads	15								
	h	Maintenance of Statutory Plans & Sections	15								
	i	Maintenance of statutory Records	15								
		TOTAL	100								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
4.2	LOADING & TRANSPORTATION	100								
Α	Operation of Excavators/Loaders									
а	Bench Floor	5								
b	Awareness of SOP's to operators	5								
В	Dumpers/Trucks/Tippers									
а	Display & Awareness of Traffic Rule & Tipping Rule	15								
b	Awareness of SOP's to operators	10								
С	Truck-cum-Dumper Roads									
а	Width & Gradient of the Road	10								
b	Road Sign/surface	10								
С	Radious of curvatures at Haul Roads	5								
d	Dust supression on haul roads	10								
е	Dust supression on loadable material (Muck Pile)	10								
f	Maintenance of separate road for light Motor vehicles	5								
D	REGISTERS PERTAINING TO PARKING BRAKE AND SERVICE BREAK TEST OF DUMPERS	15								
	TOTAL	100								

S.No.	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
4.3	DRILLING AND BLASTING	100								
а	Drilling practice	10								
b	Maintenance of Drilling Machine & Drill Bits	10								
с	Wet Drilling, Noise control	10								
d	System of Issue & return of Explosives	5								
е	Magazine Licence & Validity	5								
f	Maintenance of Explosive Van	5								
g	ANFO Mixing Station / Priming station (For SME full Marks)	10								
h	Blasting shelter Location / Distance from site/ Type	5								
i	Control Blasting Techniques Within 300 mts &Vibration Control	15								
j	Appointment of Ist Class/IInd Class managers as blasting Incharge/ Blasting Foreman /Blasters	5								
k	Explosive records & Blasting records	5								
Ι	Innovation in Drilling & Blasting	10								
m	Guarding of Magazine	5								
		100								

S.No.	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
4.4	HEAVY EARTHMOVING EQUIPMENTS	100								
Α	SHOVEL/ EXCAVATORS									
а	Maintenance & cleanliness of shovel	2								
b	Safety features of shovel(All function Cut off switch, Swing motor Brake, Fire resistent Hydrauulic Hoses, Turbo Charger Guard, Seat Belt, Vent Valve on top of Hydraulic Tank, Baffle plate for Hot and Cold Zone, Stoppers for Hydraulic Rams)	4								
с	Brake , Warning signal, Cabin head &back Lighting etc	2								
d	Fire protection arrangments Portable(1)/Semi Automatic(2)/ Automatic(3)	3								
е	Structural Stability Analysis and NDT as per DGMS(Tech.) Circular 09 of 2008	5								
В	DUMPERS									
а	Condition and Maintenance & cleanliness of Dumpers(Include Condition of wheel/Tyres/wheel bolts)	4								
b	Safety features (Rear View and Blind Spot Mirrors, Mechanical Type Anti Collission Device, Proximity Sensor) in Dumpers	4								
с	Use of Rear View System & back light for reversing, Warning signals and audio visual alaram	4								
d	Fire protection arrangments Portable(1)/Semi Automatic(2)/	3								
e	Structural Stability Analysis and NDT as per DGMS(Tech.) Circular 09 of 2008	5								
с	DOZER									

S.No.	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
а	General condition of track chain & rollers	2								
b	General cleanliness status of machine, Roll over protection & Provision of Closed Cabin / AC Cabin, First-Aid box	3								
с	Brake system, Use of effective front & back lights	3								
d	Fire protection arrangements Portable(1)/Semi Automatic(2)/ Automatic(3)	3								
D	WHEEL-LOADER									
a	Safety features in wheel loader, Provision of healthiness indicators(Hydraulic, Pneumatic, Electrical etc).	3								
b	General cleanliness & status of machine & Condition of the tyres	3								
d	Fire protection arrangments Portable(1)/Semi Automatic or Automatic(2)	2								
E	SERVICE VAN									
а	Safety features of service van incld. Parking Brake	3								
b	General condition of the service van	2								
С	First-Aid box	2								
F	MATERIAL HANDLING EQUIPMENT(FORK LIFTER, MOBILE CRANES ETC)									
a	Safety features (Load Indicators, Over load indicators and Alarms, Limit switches, Rear View System)	4								
b	General Maintenance and Records	4								

S.No.	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
с	Structural Stability Analysis and NDT as per DGMS(Tech.) Circular 09 of 2008	4								
G	WATER TANKER									
а	Safety features of the Water tanker incld. Parking Brake	2								
b	General condition of the Water tanker	2								
С	First-Aid box	2								
н	Service center/ Workshop									
а	Preventive & Predective Maintenance schedules & Records	5								
b	General up keep of maintenance & cleanliness of machines &Guarding of moving parts	3								
с	Personal protective Equipments	2								
d	Clean and non-slippery workshop floor	2								
е	Fire preventive Equipment	2								
f	Inspection of records of periodical Exams	2								
g	Tyre inflation precautions.(Protective Guard during inflation)	2								
h	Testing of pressurevalves to 1.5 times Hyd preassure	2								
		100								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
4.5	ELECTRICAL INSTALLATIONS									
A	Sub-Stations									
1.0	Outdoor sub-station a) Provision of metal in the bay b) Provision of fencing	10								
2.0	Earthing a) Construction of Earth pits b) Earth pit resistance values c) Inter connection of earth pits/ earth mat formation d) earthing of switchgear in outdoor sub-station e) fencing earthing	10								
3.0	Transformers a) Provision of Primary & Secondary Switchgear b) Silica Gel Breather c) Buchholz relay d) BTI, WTI/ oil level	10								
4.0	 Indoor Substation a) Provision of incoming main b) Identification of switchgear panels c) provision of insulation mats in front of switchgear d) proper termination and glanding of cables for switchgear e) Efectiveness of protective relays (EL, OL etc.,) f) Provision of fire-fighting equipment g) adequate lighting h) display of sub-station electric layout/ singlie line diagram i) first aid chart / electrical shock treatment 	10								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
В	OH lines									
1.0	Over head lines a) Provision of Lightning arrestors b) Provision of earth wire c) Earthing of earth wire/poles d) Provision of cradle guarding at road crossings e) Provision of danger boards f) Provision of anti-climbing devices g) Ground clearance in the quarry (12m) h) Provision of Switcgear at OH line originating point	24								
С	Lighting									
1.0	 a) Provision of lighting transformer (voltage between phases not to exceed 250V, with neutral/midpoint earthed) b) Provision of Base/plinth for the ltg Transformer c) Protective devices on primary of lighting transformer. d) Protective devices on the secondary side of lighting transformer. e) Earthing of lighting Transformer f) Earthing of Lighting Towers g) Earthing of Light fittings h) Earthing of lighting gear box i) Provision of 3 Core/ 2Core Armoured cables for lighting j) Provision of individual switchgear for lighting towers 	21								
D	Pumping									

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
1.0	 a) Provison of suitably rated switch b) Provision of suitably rated starter c) Provision of suitable type & size of cables d) Effectiveness of protective relays (EL, OL etc.,) e) Proper termination and glanding of cables f) Earthing of Switch, Starter and motor g) Provision of plinth for pump motor set h) Provision of coupling guard i) Check for abnormal temperature rise, vibration etc., 	16								
E	Supervision									
a	 a) Appointment of competent Electrical supervisor b) Validity of Electrical Supervisor certificate c) Authorisation of Electrical supervisor d) Appointment of competent Electricans with Wireman permit e) Validity of wireman permit 	10								
F	Records									
1.0	 a) Maintenace of Single Line Diagram of Electrical Installations b) Plan showing the fixed Electricaly installations on mine plan. C) Electrical Supervisor's Log book d) Copies of Approval of HT installations e) Copies of notices for LT installations f) Relays test Record g) Copies of SOPs for various electrical works i) Shut down procedure h) Permit to work - Record i) Transformer oil BDV, Acidity j) Record of Cables with IR values 	15								
G	Instruments and safety appliances									

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
1.0	Availability of a) Insulation Tester/ Meggar 500V b) Insulation Tester/ Megger 2500V c) multi-meters d) relay testing kit e) earth resistance meggar f) lux meter g) Telescopic line power detector h) Telescopic earth discharge sticks i) suitably rated Hand gloves j) ladders, stools etc., k) safety belts I) Men-on-line boards/ warning boards	24								
	TOTAL	150								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
4.6	ENVIRONMENTAL, HEALTH & SKILL MANAGEMENT	100								
A	ENVIRONMENTAL MANAGEMENT									
а	Plantation in the mine area including backfilled area	5								
b	Site of waste dump :-Dumping is being done on proved barren non mineralised area /Dump used for re-storing purpose	5								
с	Statutory Air borne dust survey (Static or fixed point sampling & personnel sampling)	15								
d	Analysis of Dust sampling, monitoring and recording of Dust survey results	5								
е	Noise monotoring, mapping and recording	10								
f	Illumination standard & Illumination Survey as per DGMS Circular, 2016	10								
g	Vibration monitoring and recording during blasting operation	5								
h	Portability test of Drinking Water	5								
В	HEALTH MANAGEMENT									
а	Initial & Periodical medical examination and procedure followed in conducting examination	10								
b	Quality of Medical Examination	10								
с	Completion of medical examination target	5								
d	Facilities & Infrastructure available for Occupational health centre	5								
с	WELFARE AMENITIES									
а	Provision of surface latrine and urinals	5								
b	Provision of drinking water:- Adequacy ,source quality Supply and Storage	5								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
с	Provision of canteen and rest shelter	5								
d	Provision of First Aid Room / First Aid Station / Abulance van	5								
D	SKILL- MANAGEMENT									
а	Basic/Refresher Vocational Training of Departmental & contractual persons (-1 mark for each untrained person)	10								
b	Special VocationalTraining to Drill Operator/Dumper Operator/Excavator Operator/Gas cutter-Welder/Fitter & Fitter Helper/Electrician & Electrician helper/in Handling of explosives/in fire fighting/in Store & Material Handling/in First Aid (3 Marks for each category of training)	30								
	TOTAL	150								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
4.7	SWACHH BHARAT	100								
Α	PUBLICITY & PROPAGANDA									
а	Posters, slogans, banners, drama, lectures.	10								
С	Workers participation in Safety Management.	10								
d	Safety announcements/Speeches	10								
е	Creativity in Publicity & Propaganda	10								
В	IMPLEMENTATION OF SWACHH BHARAT MISSION									
а	Toilets and their cleanliness	4								
b	cleanliness of benches, berms & haul roads	4								
С	Cleanliness of Machineries	4								
d	Uniform & their cleanliness	4								
е	Drains & their cleanliness	4								
	WITHIN WORKSHOP									
а	Toilets & their cleanliness	4								
b	Stacking of store material	4								
с	Parking of Vehicles	4								
d	Stacking of waste material	4								
е	General Store maintenance, Cleanliness etc.	4								
	OUTSIDE THE MINE/TOWNSHIP									
а	General toilets & their cleanliness	4								
b	Maintenance & cleanliness of drains	4								
с	Maintenance & cleanliness of Roads cleanliness	4								
d	Provision & maintenance of dust beans	4								
е	Grass cutting, beautification etc.	4								
	TOTAL	100								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
4.8	RISK ASSESSMENT, SAFETY MANAGEMENT PLAN AND SOPs	100								
Α	A) RISK ASSESSMENT AND SAFETY MANAGEMENT PLAN									
а	In respect of Drilling & Blasting	5								
b	In respect of loading	5								
С	In respect of Transportation	5								
d	In respect of Equipment maintenance	5								
е	In respect of Fire, Inundation & Slope Stabilty	5								
f	In respect of maintenance of Benches, Haulroads including Mines lighting	5								
g	Injury rate performance for the last 5 years including fatal, serious, reportable	5								
h	PRIORITIZING RISK RATING (BASED ON ACCIDENT ANALYSIS AND INCIDENT RECORDS)	5								
i	MECHANISM (root causes for the risk, risk assessment, estimation/control)	10								
В	PREPARATION & IMPLEMENTATION OF SOPs									
а	Preparation & implementation of Safe Operating Procedures for all mining operations	20								
b	Awareness of SOPs in Drilling Operation	10								
с	Awareness of SOPs in Handling of Explosives	10								
d	Awareness of SOPs in Charging & Blasting Operations	10								
	TOTAL	100								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
4.9	CRUSHER & BELT CONVEYOR	100								
Α	Electrical Section									
а	 a) Provision of suitably rated switch b) Provision of suitably rated starter c) Provision of proper bed for motor and gear box d) Effectiveness of protective relays in the starter e) Provision of suitable type and size of cables f) Proper termination and glanding of cables g) Earthing of Switch, Starter and motor h) Provision of coupling guards i) Provision of pull chord switches j) Supporting of cables on cable trays k) Interlocking and sequence of belts in case of multiple belts. l) Provision of belt sway switches 	12x4 =48								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
В	Mechanical Section									
а	Belt: Drive Unit									
i	Drive Unit:General installation, sufficient space around the drive head for inspection and maintenance of bed, foundation bolts etc., effectiveness thruster brakes, fluid couplings with fusible plug, vibration of equipment, oil leakages, rubber lagging on drums, oil gauge and breather on gear box, Fire Fighting	8								
ii	Equipment. Display of technical specifications, date of installation, scheduled maintenance, grades of oils and greases recommended.	2								
iii	Guard/ fences on moving parts, Drive Unit, tail end and discharge drums.	2								
iv	Adequate lighting near drive head, discharge and tail end drums and along the conveyor.	2								
b	Belt, Section, idlers etc.,									
i	Straightness of Sections	2								
ii	Spacing and adequacy of idlers and return rollers. Provisions of cushion rollers and self - aligning rollers with their free movement.	2								
iii	General cleanliness along the	2								
iv	Condition of belt and belt joints.	2								
v	Cross - over bridges	2								

S No	DESCRIPTION	MAX (MARKS)	1 MINE	2MINE	3 MINE	4 MINE	5 MINE	6 MINE	7 MINE	8 MINE
	Provision of free space of one meter									
vi	between conveyor system and the	2								
	side for travelling purpose.									
	Maintenance codes of practice and									
vii		2								
	keeping maintenance documentation									
	Training imparted to the workmen									
viii		2								
	operating the machinery Laid out procedure to stop conveyors									
ix		2								
	Display of warning boards/posters at									
х		2								
	tall ends and drive heads									
	Measures taken for prevention of									
xi	spillage of Mineral along the	2								
	conveyors/gantries									
С	Crusher									
	Permanency of arrangements for									
i	wetting of Mineral dust at the bunker	10								
	chute opening, loading points and									
	transfer points Guard/ fences on moving parts, Drive									
ii	Unit	2								
	Dust proof Cabin for operation of the	2								
iii	Crusher	2								
iv	Maintenance codes of practice and	2								
	keeping maintenance documentation									
	TOTAL	100								