PERFORMANCE REPORT FOR MECHANICAL EQUIPMENT

(1) Name of the item :

(2) Name of the manufacturer :

(3) Mine/ company where the equipment was in use :

(4) Period of use/whether continuing/discontinued :

(5) Life achieved so far :

(6) General performance so far :

Detailed report for different items  (Strikeout which is not applicable)

(1) Rope –
   (i) Degree of wear,
   (ii) Corrosion,
   (iii) Stretch,
   (iv) Internal lubrication
   (v) General workmanship
   (vi) Diameter etc.

(2) Suspension gears –
   (i) Wear of pins
   (ii) Interchangeability with the connecting members
   (iii) Workmanship
   (iv) Corrosion
   (v) Surface finish
   (vi) Problem in dismantling and assembling
   (vii) Dimension
   (viii) Surface and subsurface flaws
(3) **F.R.H.F.**
   (1) Effect on the torque
   (2) Viscosity
   (3) Water content
   (4) Temperature rise
   (5) Consumption pattern
   (6) Effect on hose failure
   (7) Compatibility with seals & pumps
   (8) Effect on the working pressure

(4) **High Pressure hose**
   (i) Outside dia & Bore as per standard,
   (ii) History of failure,
   (iii) Quality of end fittings,
   (iv) Interchangeability
   (v) Life obtained
   (vi) Leakage from the crimped joints etc.

(5) **Man Riding haulage/system**
   (i) Effectiveness of hydraulic brake of the man riding car
   (ii) Effectiveness of signalling from the car to the engine house,
   (iii) Effective brake of the haulage engine,
   (iv) Condition of rope
   (v) Rope attachment with the car
   (vi) Seating capacity & comfort
   (vii) Distance indicator
   (viii) General performance.

(6) **Automatic contrivance/power brake/speed recording/emergency steam stop valve** (Delete which is not applicable)
   
   (1) Functioning during overspeed
   (2) Functioning during slow banking
   (3) Functioning during overwinding
   (4) Mechanical linkage between power brake and contrivance
   (5) Effectiveness of the power brake
   (6) Effectiveness of the caturact cylinder
   (7) Jerks/abnormal vibration during lifting
   (8) Effectiveness of the steam stop valve
   (9) Leakage of steam from the joints
   (10) Sensitivity of the speed indicator
   (11) Quality of the speed chart
   (12) Ease in the interpretation of the recording system
   (13) Workmanship
(7) **Loco, IC Engine** –

(i) Brake  
(ii) Sanding arrangement  
(iii) Warning device  
(iv) Performance of exhaust conditioner  
(v) Flame prop  
(vi) Catalytic Enverter  
(vii) Head light  
(viii) Seating comfort  
(ix) Canopy  
(x) Starting.

(8) **Fire Resistant Conveyor Belts**

(i) Condition of top & bottom covers  
(ii) Condition of edges  
(iii) Wear  
(iv) Elongation  
(v) Tonnage of material handled so far

Signature with date

Name:

Designation:

Organisation:

Contact No:
PERFORMANCE REPORT OF FLP/ I.S. APPARATUS, CABLE ETC.

(Please strike off whichever is not applicable)

1. (a) Complete details of the elect. Equipment with type of protection/cable:
   (b) Name of manufacturer:
   (c) Reference to DGMS field – trial permission letter:

2. Name of the mine where the equipment was installed:

3. Location, quality, quantity, of air (ventilation):

4. Humidity at the site of installation:

5. Degree of gassiness of seam/zone in case of oil mines:

6. Date of commencement of field trial:

7. Date of reporting of performance:

8. Purpose for which equipment was used:
9. Audibility (clear/not clear) and the distance at which audibility fades out:

10. Environmental effects on the performance of the system, If any:

11. (a) Performance of insulation monitoring device, if provided. (b) Insulation Resistance values at the time of reporting:

12. Suitability of components for rough usage.

13. Temperature class/temperature rise of enclosure/glass/other components.

14. Facilities for cable connections:

15. Facilities for cable compounding.

16. Facilities for earthing of body/neutral.

17. Comments on flame path/flame gap/fastenings.

18. Wattage (H.P.) / Amperage/ Voltage at which field trial was conducted.


20. Efficacy of interlocking mechanism, if provided.

21. (a) Facilitates for testing of earth leakage relay

(b) Provision of lock/cover over “Reset” switch to obviate unauthorised operation.

22. Facilities for replacement of parts/maintenance.

23. Failure of equipment during field trial, If any.


25. Remarks on the performance and pitworthyness of the system/equipment.

(S e a l )  

Signature with date

Name:

Designation:

Contact No.