

FORM VA
(For mine employees only)

[See rule 102 (1) (2) and (3) & rule 131]

Report of medical examination under rule 102 (3)
(To be issued in triplicate)

CertificateNo.....

Certified that Shri/Shrimati/Miss..... employed as in mine, Serial number..... of **Form**_____Register (in case of PME) has been examined for an Initial/Periodical Medical Examination. He/she appears to be..... years of age. The findings of The examining authority are given in the attached sheet. It is considered that Shri/Shrimati/Miss.....

- (a) Is medically fit for any employment in mines.
- (b) Is suffering from... and is medically unfit for
 - (i) Any employment in mine; or
 - (ii) Any employment below ground; or
 - (iii) Any employment or work.....

(c)He/She is suffering from.....is should get this disease/disability cured/controlled and should be again examined with in a period of.....months. He/She will appear for re-examination with the result of test of and the opinion of..... Specialist from... He/She may be permitted/notpermitted to carry on his duties during this period.

**Space for affixing Passport
Size Photograph of the
Candidate.**

Place : Signature & name of the examining authority With date and seal

Report of the examining authority

(to be filled in for every medical examination whether initial or periodical or re-examination or after cure/control of disability).

Annexure to Certificate No.....as result of medical examination on

Identification Mark.....

Left thumb impression and Signature of The candidate

1. General development- Good/Fair/Poor

2. Height Cms.

3. Weight kg.

4. Eyes:

(i) Visual acuity-Distant vision (with or without glasses): Right eye.....Left eye.....

(ii) Any organic disease of eyes

(iv) night blindness

(v) Color blindness (to be tested in IME)

(vi) Squint

5. Ears:

(i) Hearing: right ear.....Left ear

(ii) Any organic diseases.

(iii) Audiometry Findings:

Conduction Type	Left Ear	Right Ear
Ear Conduction	Normal/Abnormal	Normal/Abnormal
Bone Conduction	Normal/Abnormal	Normal/Abnormal

Enclosed Audiometry Report.

6. Respiratory system.

Auscultatory Finding:

Chest measurement:

- (i) After full inspiration cms.
- (ii) After full expiration cms.

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	%ofPredicted
Forced Vital Capacity (FEV)			
Forced Vital Capacity 1 FEV1			
FEV1/FVC			
Peak Expiratory Flow			

Enclose Spirometry Report

7. Circulatory system:

Blood Pressure

Pulse

Cardiological Assessment

Auscultation	S1	
	S2	
	Additional Sound	
Electro cardio graph (12 leads) findings:		Normal/Abnormal
Echocardiography finding (to be tested in IME)		Normal/Abnormal

Enclose ECG

Enclose Echo cardio graphy report

8. Abdomen

:Tenderness

. Liver.

Spleen.

Tumour.

Ultrasonography of Whole Abdomen (to be tested in IME)
(Enclose Ultrasonography report)

9. Nervous system:

History of fits or epilepsy

Paralysis.

Mentalhealth.

NeurologicalAssessment

Findings	Normal/Abnormal
Superficial Reflexes	
Deep Reflexes	
Peripheral Circulation	
Vibrational Syndromes	

Special Tests for Manganese exposure

Behavioral Disturbances		Present/NotPresent
	Speech Defect	Present/NotPresent
Neurological Disturbances	Tremor	Present/NotPresent
	Adiadocokinesia	Present/NotPresent
	Emotional Changes	Present/NotPresent

10. Locomotorysystem

11. Skin.

12. Hydrocele.

13. Hernia.

14. Teeth

15. Speech

16. PathologicalInvestigations:

S.No.	Tests	Findings
1	Blood-Tc, Dc, Hb, ESR, Platelets	WNL/Abnormal

2	Blood Sugar-Fasting & PP	WNL/Abnormal
3	HbA1c (to be tested in IME and for diabetic person duringPME)	WNL/Abnormal
4	Lipid profile	WNL/Abnormal
5	Blood Urea, Creatinine	WNL/Abnormal
6	Urine (Reaction, Albumin, Sugar)	WNL/Abnormal
7	Stool Routine	WNL/Abnormal
8	Sputum test for AFB(For Food handling employee)	
9.	Hemoglobin Electrophoresis for sickle cell disease /trait (to be tested in IME)	WNL/Abnormal
10.	Bilirubin	WNL/Abnormal
11.	SGOT	WNL/Abnormal
12.	SGPT	WNL/Abnormal
13.	Delta aminolevulinic acid in urine (for person exposed to Lead)	WNL/Abnormal

Enclose all Investigation Reports.

17. Skiagram of chest.

ILO Classification of Chest Radio graph:

Profusion of Pneumoconiotic Opacities	Grades	Types
Present/Absent		

Enclose Chest Radio graph

18. Any other abnormality.

19. Any other test considered necessary by the examining authority.

20. Any opinion of specialist considered necessary.

Place:

Signature & name of the examining authority
With date and seal

Medical Standard of Fitness for Persons to be employed in Mines (Initial Medical Examination).

1. The person should be in good physical and mental health and free from any physical defect, likely to interfere with efficient employment in mines.
2. Speech must be without serious impediment.
3. Teeth are in good order and if he/she is provided with dentures, where necessary, for effective mastication (well filled teeth will be considered as sound). Gums should be in healthy condition.
4. Skin:-There should be no evidence of extensive and chronic skin disease or ulceration. In case of infective type of skin disease, the candidate could be made fit after he has undergone a treatment.
5. Hearing in each ear should be good and that there is no sign of disease in the ear. Audiometric examination should be normal & free from deafness in each ear.
6. Distant vision of eye with or without glass should not be less than following standard:
 - a) For underground workers
Better eye 6/6
Worse eye 6/9
 - b) For surface/open cast workers
Better eye 6/9
Worse eye 6/12

- c) Intra-ocular lens implant: In the case of a person who has undergone intraocular lens implant, if the visual activity withintra-ocular lens is according to the standards laid down, the person concerned may be considered fit

(iii) Fundus examination: In myopia -2 Diopter or more, Fundus examination should be carried out and the results recorded. In the event of pathological condition being present, which is likely to be progressive and affect the efficiency of the candidate, he shall be declared unfit.

(iv) Color vision: - The testing of color vision is compulsory and the results should be normal. The Ishihara's Plates shall be used for testing color vision.

(v) There should be no night blindness for persons employed below ground and for persons employed in open cast working in shifts other than in morning's shifts.

(vi) Any organic disease or a progressive refractive error which is likely to result in lowering the visual acuity should be considered a disqualification.

(vii) Squint:- Presence of binocular vision is essential, squint even if the visual acuity is of prescribed standard, should be considered a disqualification.

(viii) One eyed person- Presence of binocular vision is essential, one functional eye should be considered a disqualification.

(ix) There shall be no Nystagmus.

7. Respiratory system: Chest must be well formed. Respiratory system should be sound and free from any chronic laryngeal, bronchial pulmonary disease. Tuberculosis of lungs if not active should not be a disqualification.

a) A full sized postero-anterior chest radiograph (not less than 11 inch. X 14 inch.) enough to include thoracic inlet and both costophrenic angles obtained by an X-ray machine (analog/digital) of atleast 300 Milli-Ampere strength shall be classified as per ILO international Classification of Radiographs of Pneumoconiosis by Medical Officer trained in such ILO classification. X-ray shall be classified using LED view box accommodating at least four chest radiographs of 14 inch. X

17inch size.

b) Lung function tests (spirometry) to record forced vital capacity (FVC) and forced expiratory volume in one second (FEV1) shall be made. Findings of spirometry shall be within normal limit.

8. Circulatory system: - There should be no evidence of cardiac or vascular disease which may interfere with his efficient employment in a mine. The Blood pressure shall not be more than 130/80 mm Hg. Detailed cardiovascular assessment of employees should be done. This should include 12 leads electrocardiogram, echocardiography and complete lipid profile.
9. Locomotor System: The limbs, hands, fingers, feet and toes should be well formed and developed & without any deformity, and function of all limbs should be within normal limits.
10. There should not be any evidence of disease of abdominal organs which is likely to affect his efficient discharge of duty in a mine. Ultrasonography (whole abdomen) report shall be normal.
11. In case the candidate has hernia, he may be declared fit after he has been successfully operated for the same.
12. Hydrocele if present should not be large enough to impede the normal activities of the person. If it is large enough he may be declared fit after being successfully operated.
13. The nervous system should be sound. Persons with history of epilepsy or any other type of organic or historical fits should not be declared fit for employment in a mine. Detailed neurological examinations including testing of all major superficial and deep reflexes shall be done.
14. Fasting, Post- prandial Blood sugar and Glycoslated Hb level (HbA1c) shall be tested. Glycoslated Hb level (HbA1c) by a medical specialist as Diabetes Mellitus is known to damage target organs. Glycoslated Hb level (HbA1c) shall not be more than 6.0. Only such cases of well controlled Diabetes Mellitus with no associated complications may be considered for appointment.
15. Serum Urea and Creatinine shall be within normal limit.
16. Bilirubin, SGOT and SGPT shall be within normal limit.
17. Routine Stool shall be within normal limit.

18. The medical examination should include examination of urine. Mere presence of albumin and sugar in the urine without any gross organic disease producing signs and symptoms should not be a disability.

19. There should not be sickle cell disease/trait. Hemoglobin Electrophoresis test shall be done.

Medical Standard of Fitness for Persons Employed (Periodical Medical Examination)

1. The person should be in good mental and bodily health and free from any physical defect likely to interfere with his efficient employment in a mine.
2. Speech must be without serious impediment.
3. Teeth are in good order and if he/she is provided with dentures, where necessary, for effective mastication (well filled teeth will be considered as sound). Gums should be in healthy condition.
4. Locomotor System: The limbs should be well formed and developed, and the function of all the limbs should be within normal limits. Any deformity should be recorded. There should be no deformity or paralysis which may interfere with his efficient employment in a mine.
5. Skin: - There should be no evidence of extensive and chronic skin disease or ulceration. In case of infective type of skin disease, the candidate could be made fit after he has undergone a treatment. All occupational skin diseases should be noted.
6. Eye:
 - (a) Vision with or without glass should not be less than the following standard:

i. Better eye	6/9
ii. Worse eye	6/12
 - (b) There should be no night blindness for persons employed below ground and for persons employed in open cast working in shifts other than in morning's shifts.

- (x) A person having only one eye which functions normally should not be employed below ground, For employment on surface the vision of such a person in the other eye should be 6/9 with or without glasses.
7. Hearing should be good, any progressive disease affecting hearing/or occupational deafness should be recorded. Audiometric examination shall be conducted in every case.
8. Respiratory System: Respiratory system should be sound and free from any chronic laryngeal, bronchial pulmonary disease. Tuberculosis of lungs if not active should not be a disqualification.
- a) A full sized poster o-anterior chest radiograph (not less than 14 inch. X11 inch.) enough to include thoracic inlet and both costophrenic angles obtained by an X-ray machine (analog /digital) of at least 300 mA Milli-Ampere strength shall be classified as per ILO international Classification of Radio graphs of Pneumoconiosis by Radiologist/Medical Officer trained in such ILO classification.
- b) Lung function tests (spirometry) to record forced vital capacity (FVC) and forced expiratory volume in one second (FEV1) shall be made. Findings of spirometry shall be within normal limit.
9. Circulatory system – There should be no evidence of any heart or vascular disease which may interfere with his efficient employment in a mine. Detailed cardiovascular assessment of employees should be done. This should include 12 leads electrocardiogram and complete lipid profile. The Blood pressure shall not be more than 140/90 mm Hg.
10. There should not be any evidence of disease of abdominal organs which is likely to affect this efficient discharge of duty in a mine.
11. The nervous system should be sound. Persons with history of epilepsy or any other type of organic or historical fits should not be declared fit. Detailed neurological examinations including testing of all major superficial and deep reflexes shall be done.
12. Persons exposed to manganese, In addition to the basic neurological examination, special emphasis should be given to behavioral and neurological disturbances such as speech defect, tremor, impairment of equilibrium, adiadochokinesia and emotional changes.
13. Persons exposed to lead; PME should include delta aminolevulinic acid in urine.
14. Persons engaged in food handling and preparation and handling of stemming material activities should undergo routine sputum for Acid Fast Bacilli (AFB).

15. Fasting & Post-prandial Blood sugar shall be tested. Diabetes shall be under controlled. Target organs shall not be affected by diabetes.
16. Serum Urea and Creatinine shall be within normal limit.
17. Bilirubin, SGOT and SGPT shall be within normal limit.
18. Routine Stool shall be within normal limit.
19. In case the candidate has hernia he may be declared fit after he has been successfully operated for the same.
20. Hydrocele if present should not be large enough to impede the normal activities of the candidate. In such cases he may be declared fit after being successfully operated.

The medical examination should include examination of urine and of other system for evidence of disease. Mere presence of albumin and sugar in the urine without any gross organic disease producing signs and symptoms should not be considered as a disability.