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Rajasthan State Mines & Minerals Limited

(A Government of Rajasthan Enterprise)

Corporate Office : 4, Meera Marg, Udaipur - 313 001

Registered Office : C-89-90, Lal Kothi Scheme, Jaipur, CIN-U14109RJ1949SGC000505

Phone : 0294-2428763/64/65/66/67, Fax : 0294-2428770/2428739

e-mail : info.rsmml@rajasthan.gov.in, Website: www.rsmm.com

Ref:- RSMML/CO/Pers/2(72)/2019:- 545

Date: 04.09.2020
07


NOTICE

Vide our earlier Notice No.RSMML/CO/Pers/2(59)/2020-5 dated 21.04.2020 and No.RSMML/CO/Pers/2(59)/2020-92 dated 28.05.2020, applications were invited from the interested workmen working in category IX/IX-S possessing requisite qualification and experience as per RSMML (Recruitment & Promotion of workmen from category IX/IX-S to E-1 category of executive posts) rules, 2012.

The final list of eligible applicants with discipline wise syllabus for written exam is hereby published for information to all.

The date of written exam will be informed separately.

This bears approval of competent authority.


(Balmukund Asawa)
Executive Director (Admn.)

Copy to:-

1. PS to MD
2. F.A.,CO
3. All GGMs & Head & In-charge of SBUs
4. All Notice Boards, SBU&PC-Rock Phosphate, Lignite, Limestone, Gypsum, Corporate Office
5. Registered Office, Jaipur/ Delhi Office/ Kolkata Office
6. SM(MIS), Co for uploading on company website
7. Concern file


Executive Director (Admn.)

Final List of Eligible applicants agaisnt notice No.5 dated 21.04.2020 & No.92 dated 28.05.2020

S.N.	Name of employee	Discipline applied for	LOP	Category	Present Designation	Cat.	Date of promotion in cat.IX/IX-S	SBU&PC	Qualification
1	Sh. Madhu Raj Singh, S/o Lt. Sh. Babu Singh	Civil	Ferro Printer cum Tracer	SC	Sr. Draughtsman	IX	01.04.2010	Limestone	Dip. in Civil Engg./Auto Cad Certificate
2	Sh. Siddharth Paliwal S/o Lt. Sh. M.P. Paliwal	Civil	Ferro Printer cum Tracer	OBC	Sr. Draughtsman (S)	IX-S	01.04.2005	Limestone	Dip. in Civil Engg./Auto Cad-20
3	Sh. B.L. Kumawat S/o Sh. Megh Raj	Electrical	Electrician	OBC	Foreman -B (Elec.)	IX-S	01.04.1999	Rock Phosphate	ITI/Dip. In Elec. Engg./Electrical Supervisor Certificate
4	Sh. R.C. Purohit S/o Sh. Govind Lal	Electrical	Electrician	UR	Foreman-B(Elec.)	IX-S	01.04.1999	Rock Phosphate	4 year P.T. Dip. App.elec/ITI elec.Electrical Supervisor Certificate
5	Sh. Prakash Chandra Verma S/o Sh. Jagannath	Lab.	Analyst	SC	Sr. Analyst	IX-S	09.11.2005	Rock Phosphate	M.Sc. Chemistry Inorganic
6	Sh. D.K. Choudhary S/o Sh. Kashmiri Lal	Lab.	Analyst	UR	Sr. Analyst	IX	25.05.2010	Rock Phosphate	B.Sc.
7	Sh. Gopal Ram Saini S/o Lt. Sh. Chore Lal Saini	Lab.	Analyst	OBC	Sr. Analyst	IX	23.01.2013	Limestone	B.Sc.
8	Sh. R.K. Gangani S/o G.M. Gagnani	Mechanical	Foreman	UR	Foreman-B(Mech.)	IX-S	01.10.1999	Rock Phosphate	Diploma/AMIE/M.Tech.
9	Sh. Kanti Lal Sharma S/o Lt. Sh. Ratan Lal	Mechanical	Foreman	UR	Foreman (Mech.-S)	IX-S	01.04.2000	Limestone	Dip. in Mech. Engg.
10	Sh. Nari Bhan Singh S/o Lt. Sh. Suni Singh	Mechanical	Foreman	UR	Foreman-B(Mech.)	IX-S	01.04.2001	Rock Phosphate	Dip. In Mechanical/AMIE(Mech.)/ M.Tech.(Mech.)
11	Sh. Vinay Dwivedi S/o C.S. Dwivedi	Mechanical	Foreman	UR	Foreman-B(Mech.)	IX-S	01.04.2001	Rock Phosphate	Dip. In Mechanical Engg.
12	Sh. Vipin Garg S/o Sh. Panna Lal Garg	Mechanical	Foreman	UR	Mechanical Foreman-B	IX-S	01.04.2001	Rock Phosphate	Dip. In Mech. engg.
13	Sh. Ramesh Patidar S/o Lt. Sh. Jagannath Patidar	Mining	Foreman	UR	Mines Foreman-B	IX-S	01.04.1994	Rock Phosphate	Dip. In Mining & Mine surveying engg./AMIE part-A/ 'O' level computer course/first & second class MMR, 1961 certificate.

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Final List of Eligible applicants agaisnt notice No.5 dated 21.04.2020 & No.92 dated 28.05.2020

S.N.	Name of employee	Discipline applied for	LOP	Category	Present Designation	Cat.	Date of promotion in cat.IX/IX-S	SBU&PC	Qualification
14	Sh. Nasir Chisty S/o Sh. Shahbuddin Chisty	Mining	Foreman	OBC	Mining Foreman-B	IX-S	01.10.1994	Rock Phosphate	Dip. In Mining & Mine Surveying Engg./Mine Foreman Certificate
15	Sh. B.S. Rathore S/o Bakhtawar Singh	Mining	Quarry Foreman	UR	Quarry Foreman (S)	IX-S	01.04.2000	Gypsum	Dip. In Mining/Second class MMR,1961
16	Sh. B.U.S. Prasad S/o Lt. Sh. Bhaiya Shambhu Prasad	Mining	Overman	UR	Overman	IX-S	19.06.2001	Lignite	Dip. In Mining & Mine surveying /second class CMR,1957 overman certificate
17	Sh. Mukesh Kr. Sinha S/o Tarkeshwar Prasad	Mining	Overman	UR	Overman	IX-S	15.10.2001	Lignite	Overman Certificate/MBA
18	Sh. Jitendra Gupta S/o Sh. Krishna Gopal Gupta	Mining	Quarry Foreman	UR	Quarry Foreman (S)	IX-S	01.04.2009	Lignite	BE (Mining)/Second class cert. CMR,1957/Second class cert. MMR,1961/Authorization as Asst. Manager issued by Agent Mines.
19	Sh. Narpat Singh Rathore S/o Sh. Ummad Singh	Mining	Foreman	UR	Mines Foreman (S)	IX-S	01.04.2009	Limestone	BA Graduate with MMR,1961 certificate/ Foreman Certificate
20	Sh. Sandeep Saxena S/o Sh. R.A. Saxena	Mining	Quarry Foreman	UR	Quarry Foreman (S)	IX-S	01.04.2009	Lignite	Dip. In Mining & Mine surveyingoverman cert./first & second class CMR,1961 cert.
21	Sh. R.Rajesh S/o Sh. Ramchand	Mining	Quarry Foreman	UR	Quarry Foreman (S)	IX-S	01.10.2009	Lignite	Dip. In Mining/Overman Certificate
22	Sh. Ram Prakash Sharma S/o Sh. Bhagwan Sahay Sharma	P&A	Steno	OBC	P.A.(S)	IX-S	01.10.2000	Gypsum	B.Com./M.A.(Public & Admn.)/PGDLL
23	Sh. Yatendra Singh Rathore S/o Lt. Sh. N.P. Singh	P&A	Steno	UR	P.A.(S)	IX-S	22.11.2005	Corporate Office	M.Com./B.A./LLB (prof.)/PG Dip. in Labour Law, Labour welfare and Pers. Management/Steno.(english)

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Final List of Eligible applicants agaisnt notice No.5 dated 21.04.2020 & No.92 dated 28.05.2020

S.N.	Name of employee	Discipline applied for	LOP	Category	Present Designation	Cat.	Date of promotion in cat.IX/IX-S	SBU&PC	Qualification
24	Sh. Suresh Chandra Mathur S/o Sh. Lt. Sh. Askaran Mathur	P&A	Assistant	UR	Sr. Asstt. Gr.I	IX-S	08.06.2007	Limestone	B.Sc./M.A.(Sociology)/PGDLLL/certificate course in computer prog.
25	Sh. Rakesh Gurjar S/o Sh. Chhagan Lal	P&A	Assistant	UR	Sr. Asstt.grade-I	IX	25.05.2010	Rock Phosphate	M.Sc. Zoology
26	Sh. Pramod Chakrpani S/o Shri K.R. Chakrpani	P&A	Assistant	UR	Senior Assistant G-I	IX	10-12-10	Corporate Office	MBA
27	Sh. Rohitash Dhanak S/o Sh. B.L. Dhanak	P&A	Assistant	ST	Sr. Asstt G-I	IX	14.03.2012	Rock Phosphate	B.A.
28	Sh. S.N. Garg S/o Lt. Sh. Janki Lal	Instru.	Technician (Instru.)	UR	Master Tech.	IX-S	20.10.2005	Rock Phosphate	Diploma in Instrumentation engg.
29	Sh. Satish Hingar S/o Sajjan Singh Hinger	Survey	Surveyman	UR	Surveyor	IX-S	01.10.1994	Rock Phosphate	Dip. in Mines/Mine surveying engg./AMIE/surveyor's cert.
30	Sh. O.P. Vijayvargiya S/o Chhagan Lal	Survey	Surveyman	UR	Surveyor cum Mines Foreman	IX-S	11.03.1998	Rock Phosphate	Dip. in Mines surveying engg./AMIE in Mining engg./Foreman's cert./MMR, 1961/Second class & first class manager's cert. MMR, 1961/First Aid cert./ Surveyor Certificate
31	Sh. Mahesh Chandra Ameta S/o Sh. N.S. Ameta	Survey	Surveyman	UR	Surveyor cum Mines Foreman	IX-S	01.10.1998	Rock Phosphate	Dip. In Mining & Mine surveying, AMIE Mining Engg/Surveyor cert./Mines foreman cert.
32	Sh. Dinesh Sharma S/o Sh Laxmi Narayan Sharma	Survey	Surveyman	UR	Surveyor	IX-S	01.10.1999	Rock Phosphate	Diploma (C.Engg), AMIE (C.Engg.), Surveyor Certificate, MMR
33	Sh. Megaram S/o Lt. Sh. Nopat Ram Meghwal	Survey	Surveyman	SC	Surveyor	IX-S	04.07.2001	Rock Phosphate	Graduate/Dip. In Mining & surveying/Surveying cert./MMR, 1961/Mines foreman cert./First Aid cert.

Nopat Ram Meghwal

Final List of Eligible applicants agaisnt notice No.5 dated 21.04.2020 & No.92 dated 28.05.2020

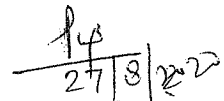
S.N.	Name of employee	Discipline applied for	LOP	Category	Present Designation	Cat.	Date of promotion in cat.IX/IX-S	SBU&PC	Qualification
34	Sh. Narendra Kr. Dubey S/o Sh. Ram Kishore	Survey	Surveyman	UR	Surveyor (S)	IX-S	01.04.2003	Gypsum	B.Sc./Dip. In civil engg./ A.M.I.E. In civil engg./Surveyor Certificate.
35	Zakir Hussain S/o Fazal Hussain	System	Computer Operator	UR	Sr. C.O.C.P.	IX-S	12.07.1995	Corporate Office	B.Sc./Dip. in SAD/"A" Level/ MBA (E-Buss.).

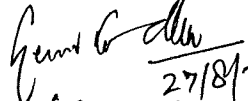
July 15/2020

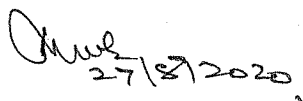
Civil Engineering

Syllabus for Civil discipline for recruitment and promotion from workmen cadre to Assistant Manager

1. **Fluid Mechanics** : Introduction, Fluid pressure and measurement, Hydrostatics, Hydro kinematics, Hydrodynamics and measurement of flow, Orifices and Notches, Flow through Pipes, Flow through Channels, Pumps.
2. **Building Technology** : Introduction, Foundation, Walls, Brick and Stone Masonry, Scaffolding, Shoring, Underpinning, Dampness and its prevention, Arches and Lintels, Door, Window, Staircases, Roofs, Floors, Finishing of Buildings, Building Bye laws, Basic Principles of Building Planning, Orientation, Site selection, Design of Buildings.
3. **Surveying** : Introduction, Chain Surveying, Compass surveying, Levelling, Contouring, Plane table Surveying, Minor Instruments, Theodolite, Traverse, Tachometry, Trigonometrical levelling, Curves, Mine surveying, Modern Instruments like Total Station, Auto level, GPS.
4. **Soil and Foundation Engineering** : Introduction, Fundamental Definitions and relationships, classification of soils, permeability of soils, Compaction, Consolidation, Shear Strength, Bearing capacity, Earth pressure, Soil exploration, Foundation, Pile foundation, Soil stabilisation.
5. **Concrete Technology** : Cement, Aggregates, Water, Admixtures and Construction Chemical , Fresh concrete, Concrete operation, Strength of concrete, Special concrete, Formwork, Quality control at site, Concrete Mix Design, Deterioration and Restoration of Concrete.
6. **Building Drawing**: Working plan, elevation & section of buildings. Drawing of a small building from measurements. Detailed working plan, elevation and section through staircase drawing of a two storied building.
7. **Construction Materials and Equipments** : Stones, Bricks, Tiles, Lime, Lime Mortar, Cement and cement mortar, Timber, Ferrous material, Non ferrous Metals, Glass, Paints and Varnishes, Equipment for earthwork and Compaction, Bitumen or Asphalt mixing plant, Hauling equipment, Equipment for Concreting. Quality control of building materials.
8. **Computer Aided Drawing** : Getting Started, Draw commands, Editing Commands, Drawing aids, creating text, Basic dimensioning, inquiry commands, Editing dimensions, Hatchings, Blocks, Plotting drawing in AutoCAD, Draw working plan and elevation.
9. **Steel Structure** : Introduction, Bolted connections, Welded connections, Tension members, Compression members, Column bases, beams, Roof Trusses, Plate Girder.
10. **R.C.C. structure** : Introduction, Flexural members, beams, Slabs, Compression members (Axially loaded columns), footings, Retaining wall, Pre stressed Concrete.
11. **Water Supply and Sanitary Engineering** : Water demand and quality, Quality of water, Regulatory valves, Distribution of water, Rural water supply, System of sanitation, Quantity of sewage, Characteristics and Composition of sewage, Building drainage, Sewerage system, Appurtenances, Laying of Sewers, Maintenance, Sewage disposal, Treatment and disposal, Rural sanitation.
12. **Civil Engineering Estimating and Costing**: Introduction, Rate analysis, Specifications, Detailed estimate for buildings, Earth work calculation for roads and Rail formation, Preparing detailed estimates for the various items of work from the given drawing , MB entry and Billing. Valuation of property and Rent fixation, Procedure of works, Stores, Tools and plants.
13. **General Rules & RSM** .


 27/8/2020
 (P.R. Praveen)
 GM (P&M)


 27/8/2020
 (R. G. Reddy)
 DGM (P&M)


 27/8/2020
 (S. S. Saiya)
 DGM (P&M)

SYLLABUS FOR ELECTRICAL ENGINEERING DISCIPLINE E-1 CADRE

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(From workmen Category to E-1 cadre)

1. Various types of D.C. electric motors, and Generators. Their working principle and characteristics and uses. Various types of A.C. Motors, their characteristic and applications. Salient pole type and smooth cylindrical type A.C. Generator/Alternator. Speed control of A.C. and D.C. Motors, AC Inverter Drives/ DC Inverter Drives.
2. Single phase and three phase transformers, construction, working principle, e.m.f. equation. Equivalent circuits diagram at load and no load.
3. Measuring instruments of various electrical parameters like as ammeter, voltmeter, enlogy meter, frequency meter, megger.
4. Electrical system of EQC Shovel. Various operations of motors and generators and magnetic amplifier. Maintenance of electric shovel/drills.
5. Various electrically operated drills machines. Their elect.Circuitory power and control circuits of the various drill machine and their maintenance schedule.
6. Indian Electricity Rules and working practices.
7. Generation of power, DG Set, Transmission of power, Line conductors for 3.3 KV, 11KV, 400 V, Cables, Safety devices, overhead lines and Mine illuminations.
8. Insulators.
9. Industrial Dispute Act, 1947:
 - a. Machineries for settlement of Industrial Dispute.
 - b. Strike, Lock-out, Lay-off, retrenchment.
10. Payment of Wages act:
 - a. Definitions
 - b. Authorised & unauthorised deductions under the Act.
11. RSMML Rules: (General Knowledge)
 - a. EPF/PF, Gratuity Rules, Social Security Scheme, HBI, Conveyance Loan, Voluntary Retirement Scheme, Medical Attendance Rules.
 - b. Standing Orders/Service Rules.
 - c. Mis-conduct under standing orders/ Service Rules.
 - d. Procedure of domestic enquiry.

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27/8/2020
(P.R. Nayak)

27/8/20
(S. S. Saiya)

27/8/2020
(S.S. Saiya)

SYLLABUS FOR LABORATORY DISCIPLINE

315

(From workmen Category to E-1 cadre)

1. Basic knowledge of Analytical Chemistry mainly in reference to the theoretical basis of quantitative inorganic analysis.
2. Volumetric analysis- Aqueous acid-base titration, oxidation-reduction titrations including iodimetry and iodometry titrations, complexometry (Largely EDTA) titrations, Numerical questions based on the volumetric analysis.
3. Gravimetric analysis including the related numerical problems.
4. Classical and instrumental methodology, based problems including numerical questions in the analysis of following, and reporting of analysis results as per requirement:
 - (a) Rock Phosphate
 - (b) Lime Stone
 - (c) Dolomite
 - (d) Magnesite
 - (e) Gypsum
 - (f) Lime
 - (g) Alum
 - (h) Phosphoric Acid
 - (i) Sulphuric Acid
 - (j) Sodium Oleate
 - (k) Water (Chemical & Bacteriological examination)
 - (l) Cast iron & steel for carbon, silicon, sulphur, manganese, phosphorus, arsenic, chromium, tungsten, vanadium, molybdenum
 - (m) Bleaching Powers and
 - (n) Chlorine demand for Water
 - (o) Lignite
5. Principle, washing and use of following laboratory equipments:
 - (a) Spectrophotometer
 - (b) Flame Photometer
 - (c) pH meter
 - (d) Conductivity Meter
 - (e) Atomic absorption spectrophotometer
 - (f) Water-De-mineralize Plant.

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6. RSMML Rules: (General Knowledge)

- (a) EPF/PF Rules, Gratuity Rules, Social security Scheme, HBL, Conveyance Loan, Voluntary Retirement Scheme, Medical Attendance Rules.
- (b) Standing Orders/Service Rules
- (c) Mis-conduct under standing orders/ Service Rules
- (d) Procedure of Domestic Enquiry.

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27/8/2020
(PR Prajapati)
GM (Prij)

Gen. Godha
27/8/20
(R. Godha)
DGM (FRA)

Gen. S. S. Dahiya
27/8/2020
(S. S. Dahiya)
DGM (FRA)

SYLLABUS FOR MECHANICAL ENGINEERING

313

(From workmen Category to E-1 cadre)

1. Engine:

- i. Need for supercharging, superiority of turbocharger over supercharger, special care of turbocharged engine than naturally aspirated engines.
- ii. Aftercooler and its advantages.
- iii. Importance of engine oil pressure, consequences of low engine oil pressure, analysis of engine behaviour leading to engine overhauling, concept and measurement of blow-by.
- iv. Importance of correct grade oil effect on engine due to incorrect engine oil level.
- v. Principle of P.T. Fuel system, overspreading- its reasons and harms.

2. Transmission:

Need for providing transmission, comparison of manual shift, power shift and autoshift transmissions, effect of incorrect grade and level of oil on the performance of power shift and auto shift transmissions, reasons and effect of elevated transmission, oil temperature, function of torque convertor.

3. Brakes:

Various types of brakes, importance and function of auto drain valve and pneumatic circuits especially during rainy season.

4. Compressors:

Various types of compressors, function of unloaded and safety valves.

5. Hydraulic System:

Superiority of Hyd. Power transmission over mechanical arrangements i.e. linkages, gear trains, ropes etc. and its practical problems, harms of elevated hyd. Oil temp. effects of incoming air with suction and trapped air in delivery lines.

6. Tyres:

Effect of under inflation and over inflation on tyres life, knowledge about off-road tyres.

7. Misc.:

Function of differential, effect of improper wheel alignment on tyres, Governors, Balancing, and Vibrations.

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8. Heavy Earth moving Equipments viz. Shovel, Backhoe, Drills Dumpers etc. Suspension system, Steering system, Radiator system, cooling system, Lubrication Schedule maintenance, Preventive maintenance, Control of dried consumption.
9. RSMML Rules: (General Knowledge)
- (a) EPF/PF Rules, Gratuity Rules, Social security Scheme, HBL, Conveyance Loan, Voluntary Retirement Scheme, Medical Attendance Rules.
 - (b) Standing Orders/Service Rules
 - (c) Mis-conduct under standing orders/ Service Rules
 - (d) Procedure of Domestic Enquiry.

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27/8/2020
(P.R. Prajapat)
GM (P&A)

Gen. Kodha
27/8/20
(R. Kodha)
DGM (F&A)

De. S. S. Darya
27/8/2020
(De. S. S. Darya)
DGM (P&A)

Syllabus For Mining Engineering

(From workmen category to E-I cadre)

1. Opencast working :

Factors affecting choice of opencast mining methods, advantages and disadvantages of opencast mining, Basic parameters : stripping ratio, cut-off grade ultimate pit limit, Bench height, width and slope, stability of pit wall slopes, angle of repose, layout of open pits, layout of waste dumps. Type of Software's used for planning, Productivity and factors affecting it.

Machinery: Power Shovels - Dipper shovel and back hoes, working parameters of power shovels, excavation of blasted rocks with power shovels, performance of power shovels, loading capacity of a shovel, Bull dozer, road grader

Rear Dumpers - Technical features, speed capacity, cycle time, and construction of pit roads, maintenance and repair of pit roads.

2. Geology & Exploration :

Igneous rocks, sedimentary rocks and metamorphic rocks, out crop, dip & strike, folds, faults, joints, unconformities, Definition of ore, tenor & grade, Methods of sampling, Classification of ore reserves and its estimation, Geological plan, working plan, surface plan, topographical plan, scale of plan. Theory and application of various methods in mineral exploration, Seismic, Gravity and Magnetic methods, Boring, Principles of Boring, selection of sites for boreholes, details of equipment, Core recovery, Borehole logging, Maintenance of records, Interpretation of borehole data, Classification of ore reserves: proved, probable & possible.

3. Drilling:

Blast hole drilling: Types of drilling equipment, Selection of Drills; Drilling concepts - Operation and performance, Drilling patterns, Inclined drilling, Computation of Productivity of Drill Machines; Control of dust.

4. Explosives & Blasting: Classification and comparative properties of explosives used in open cast mines, Mechanism of rock blasting, Safety fuses, ordinary and delay detonators, detonating fuse, cord relays, transport and storage of explosives, blast hole diameter, burden, spacing, sub-grade drilling, powder factor, base charge, column charge, deck charging, computation of total charge per hole, stemming column, delay intervals, firing sequence, back break, fragmentation, control of fly rock, air blast, ground vibrations, pre-spilt blasting, pop and plaster shooting, misfires, organization of blasting, use of bulk explosives mixing and charging units and its advantages.

5. Mine Drainage & Environment : Sources of water, rainfall and run off data HFL, water table, aquifers, lay out of sumps, centrifugal, turbine and submersible pump - installation, principle of working, constructional details, pumping of mine water.

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Environment and health impact of mining, Environmental aspects of sustainable development concept, Dust in mines-Formation, dangers, prevention and suppression, dust sampling apparatus, mining disease, overview of Ministry of Environment, Forest and Climate change, Vocational Training as an aid of safety and productivity, techniques of training, discussion methods, motivation and awareness, Vocational Training rules 1966, Classification of accidents in mines, causes of accidents and its remedial measures.

6. **Mining Legislations:** Mines Act 1952, Metalliferous Mines Regulations 1961\ Coal Mines Regulations 1957, Mines Rules 1955, DGMS circulars as applicable to opencast mines, Standard of illuminations.

7. **General Knowledge**

8. **Industrial Dispute Act, 1947 :**

- (a) Machineries for settlement of Industrial Dispute
- (b) Strike, Lock-out, Layoff, retrenchment

9. **Payment of wages Act :**

- (a) Definitions
- (b) Authorized & unauthorized deductions under the Act

10. **RSMML Rules :**

- (a) EPF/PF Rules, Gratuity Rules, Social Security Scheme, HBL, Conveyance Loan, Voluntary Retirement Scheme, Medical Attendance Rules.
- (b) Mis-conduct under standing orders/service
- (c) Procedure of domestic Industry

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(P.R. Ingepat)
GM (PM)

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27/8/20
(R. G. Chawla)
DGM (F&A)

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27/8/2020
(Dr. S.S. Danyal)
DGM (P.M)

(From workmen Category to E-1 cadre)

1. Industrial Dispute Act, 1947:

- i. Machineries of settlement of Industrial Dispute.
- ii. Notice of Change.
- iii. Strike, Lock-out, Lay-off, Retrenchment.
- iv. Unfair Labour Practices.
- v. Condition of Service etc. to remain unchanged under certain circumstances during pendency of proceedings.
- vi. Works Committee.

2. Mines Act, 1952:

- i. Appointment of L.W.O. Health & Sanitation, First Aid, Welfare amenities, Safety measures under the provisions of Mines Act.
- ii. Administrative machinery for implementation of the Mines Act.
- iii. Statutory Registers required to be maintained under Mines Act, Leave with wages.

3. Workmen's Compensation Act, 1923:

- i. Employees liability for compensation, amount of compensation, method of calculating compensation, distribution of compensation, procedure to notify fatal accidents, and compensation payable including eligible death cases.

4. Industrial Employment (Standing Order) Act, 1946:

- i. Objects and scope of standing orders in the industrial units. Applicability of Standing Orders in RSMM.

5. Shops & Establishment Act:

- i. Registration under the Act.
- ii. Maintenance of Statutory Registers and Returns.

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6. Payment of Wages Act:

- i. Definitions
- ii. Authorised and unauthorised deduction, Maintenance of Registers and Records under the Act.

7. Contract Labour (Regulation & Abolition) Act, 1970

8. Trade Union Act, 1926

9. General Knowledge:

- i. Origin and growth of RSMML with special reference to its various expansion programmes and activities.
- ii. Type of leave applicable to employees (executive and non-executives) of RSMML and the rules. Complete procedure of leave encashment as per rules of RSMML.
- iii. Disciplinary proceedings right from the issue of charge sheet to award of punishment as per Rules Provisions of suspension, and its regulation relating to payment of subsistence allowance and Disciplinary Proceedings.

10. Administration:

- i. Broad scope of functions and responsibilities in the General Administration Department, including office Administration, employee welfare etc.
- ii. Items required for establishing office, purchase, distribution of items, keeping record, stock verification.
- iii. Entitlement of uniforms, shoes, safety items, and the system of its distribution.
- iv. Classification of quarters in the township, and the method of allotment of quarters.
- v. Authority and procedure involved in registration of vehicles.
- vi. System of maintaining Log-books of vehicles, and its purpose.
- vii. Different communication systems and its utility.
- viii. Maintenance of records for assets & their physical verification.
- ix. Security-cum-vigilance in RSMM.

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11. Medical Rules & T.A. Rules: Preparation of T.A. Bills, different modes of travel and entitlement, exceptions, admissibility and reimbursement of taxi charges, mode of calculation of daily allowance, entitlement on transfers, rules regarding conveyance of personal effects, admissibility of T.A., D.A. on superannuation/ retirement, working knowledge of Medical Rules & their applicability.

12. Office Procedures:

- i. Classification of documents
- ii. Receipt, registration and distribution of classified documents.
- iii. Filing system.
- iv. Duties of a P.A.
- v. Movement of files, priority marking, linking of files, change of files, part files.
- vi. Filing of official, demi-official and unofficial communications.
- vii. Different forms of communications.

13. RSMML Rules: (General Knowledge)

- (a) EPF/PF Rules, Gratuity Rules, Social security Scheme, HBL, Conveyance Loan, Voluntary Retirement Scheme, Medical Attendance Rules.
- (b) Standing Orders/Service Rules
- (c) Mis-conduct under standing orders/ Service Rules
- (d) Procedure of Domestic Enquiry.

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(R. G. dha)
DGM (F&A)

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INSTRUMENTATION

Instrumentation Syllabus for exam for promotion from workmen to E-1 Category

Basic fundamental of Instrumentation, measuring instruments, Definitions, terminology, Measuring Principles for Measurement of Temperature, Pressure, density, mass, flow, acceleration, level, RPM, Torque etc.

Basic fundamental of AC & DC Circuits, transformers, transducers, sensors, Radio Telemetry system, modulation, demodulation, Nucleonic Gauges, Piezoelectric crystals, Control valves.

Types of control systems, basics concept of PID control.

Basis architecture of Programmable Logic Controllers (PLC), Supervisory Control and Data Acquisition (SCADA), Distributed Control System (DCS).

RSMML Rules: (General knowledge)

- EPF/PF Rules, Gratuity Rules, Social Security Scheme, HBL, Conveyance Loan, Voluntary Retirement Scheme, Medical Attendance Rules.
- Standing Orders/Service Rules
- Mis-conduct under standing orders/ Service Rules
- Procedure of Domestic Enquiry.

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Syllabus For Survey Discipline

(From workmen Category to E-1 cadre)

- A) Mine Surveying
- B) Duties of Mine Surveyor
- C) Different Nomenclatures used in mine survey
- D) Types of Instrument used in Mine Surveying
- E) Types of Software used in Mine Surveying
- F) Types of Records to be maintained by Mine Surveyor
- G) Types of Plans & Sections to be maintained by Mine Surveyor
- H) Storage of Plans & Sections
- I) Symbol's used in Plans & Sections
- J) Mode of Measurement of the quantity
- K) Mine Survey
- L) Parameters for determining the relative positions of points on or beneath the surface of the earth by direct or indirect measurements
- M) Safety of the Mine
- N) Responsibility as per Statutory Requirements
- O) Type of records to be maintained as per Statutory Requirement
- P) Different types of survey in different types of Fields.
- Q) Triangulation & Trilateration
- R) Meaning of nomenclatures used in survey: WCB, QCB, BS, FS, IS, HI, CE,
- S) Difference between WCB & QCB, Difference between Prismatic Compass & Geological Compass
- T) Level Book, Field Book, Surveyor Register
- U) Scale/RF of all the different Plans & Sections to be maintained as per Statutory Requirement
- V) Microns of Tracing Film on which different Plans & Sections to be maintained as per Statutory Requirement
- W) What are the rules to determine the quantity & Rules being widely used to determine the quantity
- X) Different symbols for different features which are being used in the preparation of Plans & Sections as per statutory requirement

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Y) RSMML Rules: (General Knowledge)

- (a) EPF/PF Rules, Gratuity Rules, Social security Scheme, HBL, Conveyance Loan, Voluntary Retirement Scheme, Medical Attendance Rules.
- (b) Standing Orders/Service Rules
- (c) Mis-conduct under standing orders/ Service Rules
- (d) Procedure of Domestic Enquiry.

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SYLLABUS FOR SYSTEM ENGINEERING DISCIPLINE E-1 CADRE

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(From workmen Category to E-1 cadre)

1. Reasoning Test & Numerical Analysis & General Knowledge
Problem solving, Data Interpretation, Data Sufficiency, Logical Reasoning, Mental Ability and Analytical Reasoning. General Knowledge and Current Affairs relating to India and Rajasthan. Major Development in the field of Information Technology.
2. Overview of the Computer System : input-output devices, pointing devices, and scanner.
Word Processing(MS-Word), Spread Sheet Software(MS-Excel), Presentation Software(MS Power Point), DBMS Software , FoxPro, MS-Access ,ORACLE.
3. Number System: Representation of Data (Digital Versus Analog, Number System – Decimal, Binary).
4. Computer Networking & Security: Introduction to Internet and email , LAN, MAN, WAN, Search Engines.
Network Topologies: Bus, Star, Ring, Mesh, Tree, Hybrid Topology.
Introduction and basics of TCP/IP Networks , DNS, DHCP, DMZ and Firewalls.
5. Data Base Management Systems: Basic database concepts, Entity Relationship modeling(ER-Modeling).
Database design: Database, Tables, procedures, triggers.
Structured Query Language (SQL) DDL, DML, DCL statements.
6. Programming Concepts Introduction:
Algorithms for Problem Solving, Introduction to Principles and Programming Techniques: Variables and assignments, Input and Output, Data Types and Expressions, Flow of control, Local variables.
Introduction of Object Oriented Programming (OOPs) concepts. : Classes
Classes, Objects, Encapsulation, Information hiding, Method, and Instances, Polymorphism, Inheritance, Exceptions and Exception Handling.
7. Web Technology: Introduction to HTML, Tag and Attributes, Text Styles and Text Arrangements, Color and Background of Web Pages, List and their Types, Attributes of Image Tag. Hypertext, Hyperlink and Hypermedia, Links, Anchors and URLs Creating table, Frame, Form and Style Sheet. Basics of FTP, HTTP, HTTPS.

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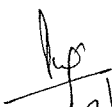
8. Troubleshooting:


Software and Hardware Troubleshooting: Hardware errors, OS installation, Diagnosing Network Error and resolution.

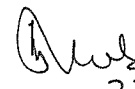
Techniques of Protecting Computer Systems from viruses & malicious attack, Backup & Restoration of Data.

9. RSMML Rules: (General Knowledge)

- a. EPF/PF, Gratuity Rules, Social Security Scheme, HBI, Conveyance Loan, Voluntary Retirement Scheme, Medical Attendance Rules.
- b. Standing Orders/Service Rules.
- c. Mis-conduct under standing orders/ Service Rules.
- d. Procedure of domestic enquiry.


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