



L. No. WCR/P-HQ/EM/LDCE-CMS/18266

DATE 26-06-2023

PCME, PFA/WCR/JBP,
DRM(P)-JBP, BPL, KOTA.
CWM-CRWS/BPL, CWM-WRS/KOTA
Sr. DME/DSL/ET/NKJ
Sr. DEE(TRS)/ET/NKJ/TKD

NOTIFICATION

Sub :- Selection for the post of Chemical and Metallurgical Superintendent in Pay Level-7 against 33% LDCE Quota from CMA in Level-6 of Mechanical Department-WCR

Railway Board has prescribed 33% LDCE Quota For promotion of serving CMA in level 6 to CMS in level 7 as contained in Para 168(4) (ii) of IREM Vol-I (letter No. E (NG-II/2004/RR/-1/5 Pt. dated 16.02.2018, 24.04.2018 & 14.05.2019). Accordingly assessment for filling up vacancies of CMS of Mechanical department has worked out to conduct the Selection through 33% LDCE.

01. Assessment of vacancies:-

Post	Scale	Vacancies with reservation			
		UR	SC	ST	Total
Chemical and Metallurgical Superintendent(CMS) of Mechanical Department	Level-7	05	02	Nil	07

02. Eligibility Criteria:-

2.1 Service conditions:- Serving Chemical and Metallurgical Assistant(CMA) in Level-06 of Mechanical Department having qualification mentioned in Para 2.2 and minimum 2 yrs service as CMA will be eligible to appear in the selection.(Railway Board's RBE No. 102/2019 dated 25.06.2019, Railway Board's Letter No. E(NG)-I/2019/PM I/20 dated 19.12.2019).

2.2 Qualifications:-

- (I) Bachelor Degree in Science with Physics and Chemistry with Minimum of 45% Marks;
Or
(II) B. Tech in Metallurgical/Chemical Engineering;
Or
(III) M.Sc. Degree in Chemistry/Applied Chemistry.

(Railway Board's RBE No. 80/2019 dated 14.05.2019)

03. Pre Promotional Training:-

As per extant rules, Pre-Selection Training Classes will be organized in respect of SC employees is to be imparted coveting the syllabus of the examination for selection (Annexure-I) to safety category post and will be imparted for a period 3-4 weeks.

After completion of the Pre-Selection Training, a certificate has to be issued by the controlling officer to the effect that all the eligible SC employees have been imparted Pre-Selection Training for a period of 3-4 weeks covering the syllabus prescribed for the examination. In case of any employee expresses his/her unwillingness for Pre-Selection Training, a written declaration to that effect may be obtained and forwarded to this office for record.

04. Syllabus:-

The syllabus for the written test is enclosed as **Annexure-I**.

05. Mode of empanelment:-

This Selection is a Selection As Per Para 219 (i) of IREM Vol-I as per Railway Board's Letter No. E (NG) II-2018//PM7/4 SLP Dated 19.06.2009 & 12.01.2011.

All the eligible candidates will be subjected to a written test. The final panel will be drawn up in the order of merit based on the aggregate marks of professional ability and record of service. There will be no classification of candidates as outstanding.

The post of CMS is classified as "Safety category post", So there is no relaxation in qualifying marks to the employees belonging to the category of SC/ST and hence they are also required 60% marks in the written examination i.e. in "Professional Ability" and 60 % marks in aggregate for being placed in the panel. (Railway Board's Letter No. E (NG)-I/2019/PM I/20 dated 19.12.2019)

The mode of empanelment in terms of above Para shall be as below:-

Factors/Heading	Maximum Marks	Qualifying Marks
01. Professional Ability	50	30
02. Record of service	30	--
Total	80	48

06. Written examination:-

In terms of Board's Letter No. E(NG)I/2018/PM1/4 Dated 14.11.2019, for written CBT(Computer Based Test) examination will tentatively be held on **07-08-2023 at 11.00 Hrs. at CBT Centre DRM office, Jabalpur** The Question Paper consist of 100% objective type with multiple choice answer only and there will be negative marking for incorrect answer i.e. 1/3rd of the marks allotted for each question will be deducted for each wrong answer. Also cutting, overwriting erasing alternation of any type in answer will not be accepted. Zero marks will be given for answers having correction/overwriting.

Note: - The question paper will be in Hindi and English language. Those who wish to write their paper in Hindi or English should mention in the application itself and also on the OMR. (Reference Railway Board's letter no. E(NG)I- 98/PM1/7 dated 20.10.1999). No Calculator, Mobile phone or any other Digital gadgets are allowed in the exam room. Any body found using such gadgets will be debarred from the examination. No supplementary examination would be conducted under any circumstances for the absentees.

07. Training: - All successful candidates shall be placed on training in orientation courses as per program.

08. Pay/Stipend during training: -

All empanelled candidates in the Pay Level-7 will have to complete the prescribed orientation course as per programme on successful completion of orientation course and any on-job training they will be absorbed in the regular cadre and posted as CMS in Pay Level 7.

09. How to apply:-

Those employees fulfilling the conditions specified in the Para 2.1 & 2.2 and are willing to participate in LDCE, should apply as per the format enclosed in Annexure-II. The Department controlling officer will forward the applications in the prescribed format attached and duly certified by 'P' Branch in a bunch to reach the office of the undersigned by **10-07-2023**, No application shall be entertained beyond the said date.

Incomplete application and application without forwarding by the controlling officer and and certified by 'P' Branch shall not be entertained.

Application in piecemeal manner shall not be accepted.

Note: - Application as per the format (Annexure-II) should be submitted along with self-attested photocopies of the certificate of the relevant Academic/Technical qualification and caste community certificate.(Ref:-Railway Board letter no E(NG)-II/2004/RR-I/5 pt. dated 16.02.2018 & 14-5-2019).

The contents of this notification may be given wide publicity. This is available in WCR website 10.150.2.19

Encl:- 01. Annexure-I Syllabus
02 Annexure-II Application format.

Copy for information please.

- 1- APO/Adm.-HQ, Ch.-OS Conf./WCR/JBP
- 2- Sec. WCREU, WCRMS, SC/ST/OBC Association-WCR/JBP


26/6/2023

(Anil Kumar Sinha)
Asstt. Personnel Officer(Cadre)
For PCPO/WCR

ANNEXURE-I

Syllabus for the post of Chemical & Metallurgical Superintendent (CMS) in Level-7

I. Mechanical Testing and Metallography :-

1. Mechanical testing methods for ferrous and non-ferrous materials.
2. Hardness testing Methods.
3. Iron Carbon diagram.
4. Steel and its heat treatment-Annealing, Normalizing, Tempering and case hardening.
5. TTT curves.
6. Macro and Micro evaluation of ferrous materials.
7. Different Types and grades of steels used in manufacture of stainless steel coaches.

II. Welding:-

1. Welding techniques adopted in PUs/Workshop.
2. Different types of welding processes adopted in PUs/Workshop ie, MMAW, GMAW, Submerged Arc welding, TIG, Spot, butt seam and laser welding and robotic welding
3. Different types of welding consumables ie, electrodes, welding coils used in PUs/Workshop.
4. Different types of Weld joints used in Coaches & Wagons.
5. Testing and specification parameters of different welding consumables.
6. Classification and coding of manual arc welding electrodes.
7. Assessment of manual arc welding electrode.
8. Wire flux Combination for submerged arc welding and CO2 welding.
9. Weld defects, their causes and remedies.
10. Periodical testing of welders as per ISO 3834-2

III. Non destructive testing:-

1. Different NDT techniques employed in Workshops/Sheds for surface inspection of raw materials.
2. Evaluation of quality of welds by X-ray and Gamma ray Radiography.
3. Radiographic standards.
4. Image quality Indicators.
5. Procurement of radio isotopes from BARC
6. Importance of computer Radiography and its advantage over film radiography.
7. Safety Parameters followed in radiography testing.
8. Safety instructions used in radiography testing.

IV. Corrosion Prevention and paint testing:-

1. Basic approach of corrosion, type of corrosion, Methods of prevention and a rational approach and design aspects.



2. Historical development of steel sheets used for coaches with emphasis on corrosion resistance.
3. Painting schedule of LHB type coaches.
4. Testing of paints and their evaluation.
5. Assessment of durability of paints using weatherometer and salt spray test.
6. Important features of new painting products like Wet on Wet paint, Sound insulation paint, Anti graffiti paint, Anti Corrosive paint and Heat absorbing paint.
7. Painting defects their causes and remedies.

V. Rubber and plastics:-

1. Testing and evaluation of rubber components used for coach constructions including silent blocks.
2. Identification of elastomers.
3. Development of nylon as substitute for case hardening components.
4. Testing of oils and lubricants.
5. Evaluation of roller bearing grease.

VI. Chemical Testing and analytical laboratory:-

1. Reproducibility of results and rounding of numerical values.
2. Random sampling technique for ferrous and non-ferrous materials
3. Through Knowledge of IS, IRS, BS, DIN, EN and ASTM specifications used for raw materials and finished components of ICF built coaches.
4. Principles, theory and method of estimation of various elements in ferrous and non ferrous materials including alloy steels, tool steels and heat resistant steels and cast iron by spectrometer.
5. Ladle and product analysis.
6. Safety in chemical laboratory.
7. Effect of individual elements in ferrous and non-ferrous materials

VII. Testing of flooring and furnishing Materials :-

1. Test conducted on flooring materials and importance of each tests.
2. Types of flooring adopted in ICF built coaches & LHB Coaches.
3. Evaluation of furnishing materials like L P sheets, upholstery cloth foam, rubber, plywood NAFTC etc, their specification and method of tests.
4. Development of substitutes for furnishing materials.
5. Knowledge on fire safety testing methods as per UIC and EN45545 standards.
6. Importance of new coach furnishing materials, merits and demerits of typical individual items.
7. Significance of laboratory tests on thermal insulating materials.

VIII. Quality Systems and certification :-

1. Awareness of quality systems like Integrated Management System (IMS), 5S, Energy management system to ISO 50001, IRIS.
2. Importance of NABL Accreditation to laboratories.

IX. Rule and regulations:-

1. Procurement Procedure for non- stock items for laboratory.
 2. Types of indents used for drawal of individual items from stores.
 3. Material gate passes.
 4. Leave rules .
 5. Pass rules .
 6. Sanctioning of leave.
 7. Schedule of powers for procurement of small tools.
 8. Earned leave and its maintenance of account.
 9. Factories.
 10. Imprest cash.
 11. Official Language policy and its implementation.
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ANNEXURE-II

Application for the Selection of CMS, Level-7 through in 33% LDCE Quota for Mech Dept. in

WCR

Ref:-PCPO/WCR's Notification No. WCR/P-HQ/EM/LDCE-CMS/18266 DATE 26-06-2023

S. No.	Name(In Capital Letters) (Shri/Smt/Miss)	
1	Father's Name(Shri)	
2	Designation	
3	Place of Working	
4	Date of Birth	
5	Date of Joining as Apprentice CMA	
6	Date of regularization in CMA	
7	Present Pay & Level	
8	PF/NPS no. & HRMS ID	
9	Educational Qualification(Self attested copy of the mark sheets)	
10	Caste(Self attested copy of certificate to be enclosed)	
11	Mobile No & e-mail id.	
12	Language of Exam (Hindi/English)	

Passport
Photograph with
Attested from
Controlling Officer

Enclosures:-

- 1- Educational Certificates
- 2- Caste Certificate

I hereby declare that all statements made in this application are true, complete and correct to the best of my knowledge and belief. I undersigned that in the event of any information being found false of my stage or not satisfying the eligibility criteria according to the requirement of the post my candidature/selection is liable to be cancelled/terminated.

Place-

Signature of Applicant

Date-

Countersigned By controlling officer
(With office Seal)

Certified that the above particulars have been verified from service record of the applicant and found to be correct.

Signature of the Personnel officer
(With office Seal)