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A Chemist is the officer who analyses samples in a government laboratory, and on whose analysis the department then acts. In Rajasthan the name belongs not to one post but to several, sitting in different departments on different...



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व्याख्याता (राजनीति विज्ञान) · रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। · An independent project based on the Government's official career-guidance content.

1 About this career

A Chemist is the officer who analyses samples in a government laboratory, and on whose analysis the department then acts. In Rajasthan the name belongs not to one post but to several, sitting in different departments on different conditions — so before applying it is necessary to see which department an advertisement is from. The most recently active is Junior Chemist in the Ground Water Department, whose work is the testing of groundwater samples: determining the salts, hardness, fluoride, nitrate and other constituents in water, and reporting whether it is fit to drink or to irrigate with. The importance of that work is unusually high in Rajasthan, where much of the state depends on groundwater and where fluoride and salinity are widespread — the report on which a village handpump is declared safe or unsafe comes out of this laboratory. The second post is Chemist in the Excise Laboratory, whose conditions differ and which is also set out below.

2 At a glance

Minimum qualification	Junior Chemist (Ground Water): M.Sc. in Inorganic or Analytical Chemistry + two years experience of water and silicate analysis. Chemist (Excise Laboratory): a Master degree in Chemistry
Recruiting body	Rajasthan Public Service Commission (RPSC), Ajmer — department: Ground Water, or the Excise Laboratory
Age limit	Ground Water Department: 20 to 40 years (Service Rules 1969). Excise Laboratory: 18 to 40 years (Service Rules 2015) — both reckoned on the 1st of January following the last date for applications — the upper limit is relaxed for reserved categories and for women (detail below)
Starting salary	The pay matrix level is not given in the service rules — see the advertisement
Demand	Junior Chemist: 75% direct recruitment, 25% promotion. Excise Chemist: 50% direct, 50% promotion

3 What you need

INTERESTS

- An interest in chemistry and laboratory work
- Technical work connected with public health and the environment
- Exact measurement and analysis

ABILITIES

- Great care — one wrong reading makes a whole report misleading
- Understanding the operation and calibration of instruments
- A systematic and patient way of working

KEY SKILLS

- Water analysis — salinity, hardness, fluoride, nitrate and other constituents
- Volumetric and instrumental methods of analysis
- Quality control and following standard procedures
- Analysis of silicates and rock samples
- Operating, calibrating and maintaining laboratory instruments
- Preparing analysis reports and laboratory records

4 How to get there

- 1 Pass Class 12 with science — physics, chemistry, and mathematics or biology.
- 2 Do a B.Sc. in chemistry, then an M.Sc. For Junior Chemist in the Ground Water Department the branch of the M.Sc. is prescribed — Inorganic Chemistry or Analytical Chemistry. That list is closed, so keep it in view when choosing a specialisation; organic or physical chemistry does not lead to this post. For Chemist in the Excise Laboratory the condition is only a Master degree in chemistry, with no branch prescribed.
- 3 For the Ground Water post, two years of experience of water and silicate analysis is compulsory. It is an eligibility condition, not a preference — so the post is not available the moment the M.Sc. is finished. The experience is built in laboratories, water testing units, mineral and geological laboratories or industrial quality-control units, and that period passes on a salary.
- 4 Age: 20 to 40 for the Ground Water post; 18 to 40 for the Excise Laboratory post. In both, the reckoning is on the 1st of January following the last date for applications.
- 5 When an advertisement appears, check which department it is from, because although the name of the post looks the same, the qualification, the experience and the age can all differ.
- 6 Apply on the RPSC advertisement.

MAIN EXAMS

- Recruitment is by the Rajasthan Public Service Commission. Junior Chemist in the Ground Water Department is filled 75% by direct recruitment and 25% by promotion — a comparatively high direct share and a favourable feature of this post. Promotion comes from Technical Assistant (Chemistry) on two years of experience.
- Pay particular attention to the two-year experience condition, because it changes how this post is planned for. It is the same shape as the boiler experience on the Inspector of Factories and Boilers post: applying is not possible the moment the degree is done, and those two years are better treated as the time in which eligibility is built rather than as waiting. Experience in water analysis is gained in the same kind of laboratory the post itself works in, so the period is not wasted.
- Chemist in the Excise Laboratory is filled 50% by direct recruitment and 50% by promotion. The promotion route there is different too — from the post of Assistant, for which the rules record a B.Sc. with chemistry and five years of experience, or Secondary with chemistry and seven years.
- The Commission's advertisement list confirms many cycles across this family of posts — "JUNIOR CHEMIST 2025" with a document as recent as 23-02-2026, and before it JUNIOR CHEMIST 2024, 2014 and 2011, and CHEMIST 2021, 2015, 2014 and 2011, and SR. CHEMIST 2015. Both families recur from time to time, though not at regular intervals.

- Note — these posts are not in the Schedules to the CET Rules 2022, so a CET score is not required for them. They are Commission posts, not Board posts.
- Relaxation in the upper age limit — 5 years for male candidates of the Scheduled Castes, Scheduled Tribes, Backward Classes, More Backward Classes and Economically Weaker Sections; 5 years for women candidates of the General category; and 10 years for women candidates of those same categories. Which means plainly that the bare figure printed against a post understates a reserved-category woman's eligibility by a decade — if you are in that category, work out your eligibility only after adding the relaxation. In Rajasthan, 30% of the posts in direct recruitment are reserved category-wise for women candidates. Widows and divorced women have no upper age limit at all — the rules say it in those words. It is Rule 13(9) of the Rajasthan State and Subordinate Services (Direct Recruitment by Combined Competitive Examination) Rules 1999, it appears again as the same proviso in the Rajasthan Medical & Health Subordinate Service Rules, and RPSC advertisements reproduce it. A widow must furnish a certificate of the death of her husband from the competent authority, and a divorced woman the proof of divorce. The exact terms of relaxation and reservation are given in that recruitment's own advertisement.

5 Where to study

GOVERNMENT INSTITUTES

- University of Rajasthan — M.Sc. Chemistry, including inorganic and analytical specialisations — Jaipur, Rajasthan (<https://uniraj.ac.in/>)
- Jai Narain Vyas University, Mohanlal Sukhadia University, MDS University, MGS University — M.Sc. Chemistry — Jodhpur, Udaipur, Ajmer, Bikaner
- Government colleges — B.Sc. with chemistry — All districts of Rajasthan (<https://hte.rajasthan.gov.in/>)
- Government and departmental water testing laboratories — where the two years of experience are actually built — At district and divisional level

ONLINE

- भूजल विभाग, राजस्थान — Junior Chemist belongs to this department (<https://phedwater.rajasthan.gov.in/>)
- आबकारी विभाग, राजस्थान — आबकारी प्रयोगशाला — The other Chemist post sits in this department (<https://excise.rajasthan.gov.in>)
- Central Ground Water Board — groundwater quality data and reports — Government of India (<https://cgwb.gov.in/>)
- Bureau of Indian Standards — IS 10500, the drinking water specification this work is measured against — Government of India (<https://bis.gov.in/>)
- आर.एस.एस.बी. — पिछले प्रश्न-पत्र, उत्तर कुंजी व पाठ्यक्रम (निःशुल्क) — The Staff Selection Board's own site — the most reliable free preparation material there is (https://rsmssb.rajasthan.gov.in/show_archived?menuName=Xj4lCb9vGxpQnfls%2FxlZ2g%3D%3D)
- विभागीय सेवा नियम (कार्मिक विभाग) — पद की योग्यता व आयु मूल दस्तावेज़ में पढ़ें — The Department of Personnel publishes the service rules for every cadre. Read these before any coaching material — qualification, age and the method of recruitment are settled here and nowhere else. (<https://dop.rajasthan.gov.in/>)
- स्वयं (SWAYAM) — भारत सरकार के निःशुल्क ऑनलाइन कोर्स — Free (<https://swayam.gov.in/>)
- राष्ट्रीय डिजिटल पुस्तकालय (NDLI) — Free books and study material (<https://ndli.iitkgp.ac.in/>)
- एन.सी.ई.आर.टी. — निःशुल्क पाठ्यपुस्तकें — The foundation for general knowledge, maths and science (<https://ncert.nic.in/>)

FEES

Both the B.Sc. and the M.Sc. cost very little at Rajasthan's government colleges and universities, and chemistry departments exist in nearly every division — reaching this post does not require leaving the state. Keep one thing in view when choosing the M.Sc.: the branch is prescribed for the Ground Water post, so inorganic or analytical chemistry is necessary for that route and the decision has to be taken at admission. The two-year experience condition is the most practical feature of this route and it is income rather than cost — that period is spent on a salary in a laboratory or a quality-control unit. Much of the study material is free, and the Bureau of Indian Standards drinking water specification and the Central Ground Water Board reports are the very material this work rests on daily.

SCHOLARSHIPS

- Mukhyamantri Anuprati Coaching Yojana (free coaching, apply via SSO) (<https://sso.rajasthan.gov.in/signin>)
- Rajasthan Social Justice and Empowerment Dept scholarships (<https://sje.rajasthan.gov.in/>)
- National Scholarship Portal (NSP) (<https://scholarships.gov.in/>)
- Buddy4Study scholarship search (<https://www.buddy4study.com>)

6 What the work is like

WHERE YOU WORK

The district and divisional laboratories of the Ground Water Department, and the Excise Laboratory. The work is mainly inside the laboratory, with field visits for sample collection alongside.

WORK CULTURE

Laboratory work is quiet, regular and disciplined — the hours are fixed and the routine far steadier than in most field posts. Its character is exactness: every step from drawing a sample to writing the report follows a prescribed procedure, and the reliability of the result rests on that discipline. The responsibility is larger than it looks, and that is particularly true in the Ground Water Department: the report recording the fluoride or the salinity of a source is what decides whether a village is told its water is fit to drink — and that decision acts on the health of the people living there for years. The work carries no name, only a result: the report is quoted onward in departmental orders, schemes and projects without the analyst's name on it. For those who find satisfaction in precision and want quiet, orderly work, this is a fitting post.

WHO HIRES

- Ground Water Department, Rajasthan — district and divisional laboratories
- Water testing units of the Public Health Engineering Department
- Excise Department, Rajasthan — the Excise Laboratory
- Mineral and industrial quality-control laboratories, including for gaining the experience

DEMAND (2026)

Much of Rajasthan depends on groundwater and fluoride, salinity and nitrate problems are widespread, so the need for laboratories that test water quality is permanent — and that is the basis on which this post persists. The Commission's list shows that posts in this family return from time to time, the most recent being Junior Chemist 2025 with a document as late as February 2026. The cadre is nonetheless small and recruitment does not come at regular intervals. Two points are practically useful when planning this route. First, the two years of experience have to be built in any case, so starting work in a laboratory after the M.Sc. pays twice — an income and eligibility together. Second, an M.Sc. in chemistry is not only for this post: quality-control units in the pharmaceutical and chemical industries, the pollution control board, food and drug laboratories, teaching and other government recruitments all open from the same qualification. The number of posts describes the department's requirement, not your chances of selection. One thing to be clear about — the "demand" described above counts posts, not your chance of getting one. Selection is by open competition and the number of applicants runs to many times the number of posts, so most candidates are not selected in any given recruitment. That is not an argument against this career; it is an argument against making it your only plan. Keep studying or building a skill alongside your preparation, so that the year is not lost whichever way the result goes.

7 Career growth

- 1 Technical Assistant (Chemistry) — from which two years of experience gives promotion into 25% of the Junior Chemist posts
- 2 Junior Chemist — 75% direct recruitment, 25% by promotion
- 3 Senior Chemist — by promotion, on five years as Junior Chemist and an M.Sc. in Inorganic or Analytical Chemistry
- 4 Senior posts in the laboratory and technical wing of the Ground Water Department

EARNINGS

Starting	विज्ञप्ति में घोषित पे मैट्रिक्स स्तर के अनुसार
Mid level	₹55,000 – ₹75,000 (भत्तों सहित, कुछ वर्षों बाद)
Senior level	₹85,000 से अधिक (भत्तों सहित, वरिष्ठ रसायनज्ञ स्तर पर)

Neither the 1969 nor the 2015 service rules give a pay matrix level for these posts, so no starting figure is printed on this page — it will be in that cycle's advertisement. The mid-level and senior figures above are approximate and are not confirmed from any official document; read them as a direction, not a promise. One thing to keep in mind: the two posts belong to different departments and their pay need not be the same — read what applies to the post in that advertisement. The starting figure is BASIC PAY, so that it can be compared directly against other careers. Dearness allowance (60% of basic since 1 January 2026) and house rent allowance are added on top of it, so take-home pay is appreciably higher. The mid-level and senior figures are approximate monthly income including allowances, not basic pay. Note — in Rajasthan a direct recruit is a probationer-trainee for the first 2 years and is paid a fixed remuneration, not the pay scale; dearness allowance and house rent allowance are not payable in those two years (Rajasthan Service Rules, rule 7(30A)). The full pay scale applies once probation is completed. The pay matrix level for this post could not be confirmed on this page from an official document — it is not in the service rules and not in the CET Rules 2022 schedule. No level is therefore stated here. The correct figure is printed in the official advertisement for the recruitment; check it there before applying. The figures above rest on the Rajasthan 7th pay matrix, which is what applies as of 17 August 2026. The Terms of Reference of the 8th Central Pay Commission were approved on 28 October 2025 and it must report within 18 months of its constitution. State governments normally adopt a Central Pay Commission with modifications, and later than the Centre does — so Rajasthan pay will be revised too, though by how much and when is not yet settled.

8 The good parts · The challenges

The good parts

- Junior Chemist is 75% direct recruitment — a comparatively high share
- A quiet, regular laboratory working environment
- The two years of experience are built on a salary and are the eligibility as well
- The same M.Sc. also works in industry, pollution control, drug laboratories and teaching
- The social importance is plain — the safety of drinking water rests on this testing

The challenges

- The branch of the M.Sc. is prescribed for the Ground Water post — organic or physical chemistry does not qualify
- Two years of water and silicate analysis experience is compulsory, so the post is not available straight after the M.Sc.
- The cadre is small and recruitment does not come at regular intervals
- Several posts named "Chemist" exist in different departments, which makes reading an advertisement confusing
- The credit is invisible — the report travels onward, the analyst's name does not

9 Sources & further reading

1. Department of Personnel, Rajasthan — Rajasthan Ground Water Service Rules, 1969 — https://dop.rajasthan.gov.in/writereaddata/modulCategory/202305180357368296118GWD1969_merged.pdf
2. Department of Personnel, Rajasthan — Excise Laboratory (State and Subordinate) Service Rules, 2015 — https://dop.rajasthan.gov.in/writereaddata/modulCategory/202605130532401115358excise2015_merged.pdf
3. Rajasthan Public Service Commission — advertisements — <https://rpsc.rajasthan.gov.in/advertisements>

4. Central Ground Water Board — <https://cgwb.gov.in/>
5. Rajasthan Staff Selection Board (official) — <https://rssb.rajasthan.gov.in/>
6. Department of Personnel, Rajasthan — service rules — <https://dop.rajasthan.gov.in/>
7. 8th Central Pay Commission — Cabinet approval of the Terms of Reference (PIB, 28 October 2025) — <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2183289>

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