

No.13690/CS(Agri)/A1/AOE/2022
GOVERNMENT OF PUDUCHERRY
CHIEF SECRETARIAT(AGRICULTURE)

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Puducherry, dated 18-11-2022

Date and time for submission of online application 21.11.2022 (10.00 a.m.) to 20.12.2022 (05.45 p.m.)
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NOTIFICATION

Applications are invited from the eligible Indian Citizens who are Natives/Residents of Union Territory of Puducherry for the Competitive Examination to be held for Direct Recruitment to the post of **Agricultural Officer (Engineering)** (Group 'B' Non-Gazetted, Non-Ministerial) in the Department of Agriculture and Farmers Welfare, Puducherry as detailed below:-

Name of the post and Level in the Pay Matrix	No. of vacancies	Reservation		
		Vertical		
		UR	OBC	SC
Agricultural Officer (Engineering) Level 6	5	3	1	1

Abbreviations :

UR-Un-reserved, **OBC**-Other Backward Classes (includes MBC-Most Backward Classes/EBC-Extreme Backward Classes/BCM-Backward Classes Muslim/BT-Backward Tribes), **SC**-Scheduled Caste.

Note :

The vacancies notified are existing as well as anticipated. However, Government reserves the right either to enhance or to reduce the number of vacancies notified depending upon the actual requirement at the time of selection and also to cancel the recruitment process. No interim enquiry will be entertained.

1. Educational qualifications for eligibility:-

(A) Degree in Agriculture Engineering or Mechanical Engineering or Civil Engineering from a recognized University or equivalent

(or)

(B) (i) Diploma in Agricultural Engineering or Mechanical Engineering or Civil Engineering from a recognized University/Institution or equivalent.

and

(ii) 2 years experience with proficiency in soil conservation/bore well sinking/repairs to Agricultural machinery.

Note: The candidates possessing equivalent degrees shall produce the Equivalency Certificate from the concerned University, at the time of Certificate Verification.

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2. AGE LIMIT

Between 18 and 30 years of age as on 20/12/2022. Age limit is relaxable in respect of OBC (includes MBC/EBC/BCM/BT), SC, Persons with Benchmark Disabilities, XSM and In-service officials as detailed below :-

Category	Relaxation of Upper Age Limit **
OBC (includes MBC/EBC/BCM/BT)	3 years
SC	5 years
Ex-servicemen (XSM)	Period of military service plus 3 years
Ex-servicemen and Commissioned Officers including ECOs or SSCs who have rendered at least five years military services and have been released on completion of assignment (including those whose assignment is due to be completed within one year) otherwise than by way of dismissal or discharge on account of misconduct or inefficiency, or on account of physical disability attributable to military service or on invalidment	5 years
Disabled Defence service personnel	3 years
Disabled Defence service personnel - SC	8 years
Persons with Benchmark Disabilities (PwBD) (for Physical requirements & categories of disabilities suitable for this job, refer Part-II of General Instructions to candidates	10 years (in respect of reserved applicants, over and above the admissible relaxation of 5 years for SC and 3 years for OBC (includes MBC/EBC/BCM/BT)
In-service Officials (Refer para 10)	5 years (for posts which are in the same line or allied cadres and where a relationship can be established that the services rendered by them in the Department will be useful for efficient discharge of duties of post for which selection is made).

** Requirement of age for candidates belonging to various categories are given in Part III of this Notification

3. NATIVITY / RESIDENCE :

Those who are the native of the Union Territory of Puducherry or who have continuous residence in the Union Territory of Puducherry for the last 5 years immediately preceding the date of notification only are eligible to apply for the post. The applicant can apply without a certificate but ON SELECTION should furnish the fresh Nativity/Residence Certificate issued by the Officer of the Department of Revenue and Disaster Management, Puducherry not below the rank of Deputy Tahsildar at the time of Certificate Verification.

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4. COMMUNITY CERTIFICATE (for OBC & SC Candidates) :

a) The selected applicants should submit a fresh Community Certificate for SC/OBC obtained in the prescribed form issued by an Officer of the Department of Revenue and Disaster Management not below the rank of Deputy Tahsildar **at the time of certificate verification.**

b) Candidates selected under SC quota should furnish Community Certificate issued under **"The Constitution (Puducherry) Scheduled Castes Order, 1964"** and **"The Constitution (Puducherry) Scheduled Castes Order, 2002"** in respect of **"Puthirai Vannan"**. OBC candidates shall produce Non-Creamy Layer Certificate.

c) Candidates belonging to the communities of OBC U.T. of Puducherry, MBC, EBC, BCM, and BT categories of UT of Puducherry will be considered under the one umbrella of OBC for the purpose of reservation. Hence, the posts earmarked for OBC in this notification applies commonly to all the above communities viz., OBC UT of Puducherry, MBC, EBC, BCM and BT categories of UT of Puducherry.

5. Document to be produced by candidates claiming age relaxation under Ex-Servicemen/Ex-Servicemen Commissioned Officers & Disabled Defence Service Personnel Category:

Applicants claiming age relaxation under Ex-servicemen, Ex-Servicemen Commissioned Officers and Disabled Defence Service Personnel category should produce original discharge book/discharge certificate issued by the Competent Authority during their Discharge from Military Service, at the time of certificate verification.

6. Disability Certificate to be produced by Persons with Benchmark Disability (PwBD):

The applicants who are Persons with Benchmark Disability (PwBD), on selection should necessarily submit the Medical Certificate issued by District Medical Board, Government of Puducherry at the time of certificate verification. Certificate received from any other authority will not be accepted. The categories of disability suitable for the post are detailed in Part-II of General Instructions to candidates.

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7. MODE OF RECRUITMENT/PATTERN OF EXAMINATION :-

The vacancies in the above said post will be filled up through a Competitive Examination consists of two papers (Paper – I and Paper –II) as follows:

Paper I (Forenoon) :

The question paper will be of objective type as per the syllabus in Part-IV of 2 hours duration having 100 questions carrying 1 mark for each question.

Paper II (Afternoon) :

The question paper will be of objective type with a duration of 2 hours having 100 questions carrying 1 mark for each question from General Mathematics, General Science, General English, Indian History & Geography, Indian Economics, Constitution of India, General Knowledge and Current Affairs.

The Question Paper will be in bilingual (except General English) i.e. in English and in any one of the regional languages namely, Tamil or Telugu or Malayalam. Therefore the candidates should indicate the choice of the language in which they prefer to write the examination, in the online-application.

Answering would be in the form of shading the correct answer by using **BLACK BALL POINT PEN** only and the applicants are permitted to take the carbon copy of their answer sheet along with their question booklet.

Negative mark of 0.25 will be awarded for every wrong answer and multiple answers will be treated as a wrong answer. Candidates are, therefore, advised to keep this aspect in mind while answering the questions.

The answer key will be published in the recruitment website <https://recruitment.py.gov.in> and also in the official website of the Department of Personnel and Administrative Reforms (Personnel Wing) viz., <https://dpar.py.gov.in> after completion of the examination process.

Minimum qualifying marks prescribed for the written examination:

A list of candidates will be provisionally shortlisted from the merit list based on the marks obtained by the applicants in the Written Examination subject to reservation as per rules in force. Minimum qualifying marks to be secured by the various category of candidates are as follows:-

UR	:	35%
OBC	:	30%
SC	:	25%

Note:

1. Candidates are required to appear for both Paper-I and Paper-II for consideration for selection. Failure to do so will result in rejection of their candidature
2. Select list will be drawn based on the marks obtained by the applicants in the competitive examination subject to reservation as per rules in force.

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3. The validity of operation of wait list, if drawn, will be two years from the date of declaration of the result / publication of select list. The wait list will be operated in the event of occurrence of a vacancy caused in the Select list due to rejection of candidature for non-production of required certificates, non-appearance of candidate for certificate verification, non-joining of candidate within the stipulated time allowed for joining the post or when a candidate joins but resigns or dies within a period of one year from the date of joining etc.

8. DATE AND VENUE OF EXAMINATION :

The Competitive Examination will be held in **Puducherry region** only. The exact date, time and venue of the examination will be intimated to the eligible candidates in due course in the recruitment website & also in leading newspapers.

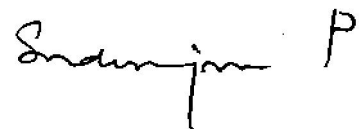
9. HOW TO APPLY AND LAST DATE FOR APPLICATION :

Applicants fulfilling the eligibility criteria as mentioned above may apply by online only through the official website <https://recruitment.py.gov.in> from 21.11.2022 (10.00 a.m.) to 20.12.2022 (05.45 p.m.)

10. PROCEDURE FOR IN-SERVICE CANDIDATES:

Only the candidates working as Master Mechanic and Junior Technical Assistant (Drilling) under the cadre control of Department of Agriculture and Farmers Welfare, Puducherry will be considered as feeder cadre for the post of Agriculture Officer (Engineering) and allowed to appear as In-service candidates by availing the permissible age relaxation mentioned in the statement under "para 2 - Age Limit" of this notification.

Applicants working in the Government Departments/Offices and applying as In-service Applicant with age concession should forward a copy of the online generated application through their respective Heads of Department /Office within the due date i.e. on or before 05.45 p.m. on 20.12.2022 to "The Deputy Secretary to Govt. (Agriculture), Chief Secretariat, Puducherry - 605 001". The applications of In-service candidates which are not duly forwarded by the Head of Departments/Offices within the due date and time of 05.45 p.m. on 20.12.2022 will be summarily rejected. Advance copy of application for In-service candidates will not be entertained.



GENERAL INSTRUCTIONS TO THE CANDIDATES
PART-I

Applicants should read the following instructions carefully before applying :

1. Mode of applying for the Competitive Examination for Direct Recruitment to the post of Agricultural Officer (Engineering) is through online only. Applicants shall not send the online generated application in physical form (Except in case of in-service Applicants).
2. Avoid registering multiple online applications and register only a single application. All multiple online applications will be rejected summarily and the candidates will lose their chance to appear for the exam.
3. Applicants shall upload their Photograph and Signature using either option 1 or 2 provided in the recruitment portal as given below:-

Option 1 (Scanned Photograph and Signature as a single image)

Applicants are instructed to scan their recent passport size colour photograph & signature in an A4 sheet with 200 DPI resolution, dimensions should be minimum of 600 x 600 pixel and the file size should be less than 150KB. (as shown in guidelines video for uploading and cropping your photograph and signature during online application)

Option 2 (Scanned Photograph and Signature as separate images)

Applicants are instructed to scan their Photograph in JPEG format with 238 x 306 pixel dimension and the file size should be less than 50KB.

Signature file format should be JPEG, dimensions should be 350 x 150 pixel and file size should be less than 30 KB.

Note: The Diploma holders should upload a copy of the experience certificate while submission of application in the online portal and submit the original at the time of certificate verification. No other certificate will be considered at the time of original certificate verification. Their candidature will be rejected if no experience certificate is uploaded. The experience certificate should be uploaded as PDF file (file size must not be greater than 100 KB)

4. The applicants have to register their Mobile Number in the online portal <https://recruitment.puducherry.gov.in> for applying through online. Then they will be receiving Username and Password through SMS in the mobile number provided while registration. Thereafter, the applicants have to login into the online portal using the Username and Password for applying to the post of Agricultural Officer.

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5. The applicants are also advised to change the default password received in their mobile at first login. It is the applicant's responsibility to take ownership of the password and it should not be disclosed to anyone. Otherwise, the liabilities arose upon will be at the applicant's risk.
6. The applicants will be allowed to view, print & check the status of their application and download the Hall Ticket by login into the online portal using the username and password. Hence, they are advised to keep the user name and password safe for future reference until the recruitment process is over.
7. The applicant after applying can also make corrections in their on-line application, if any error occurred while entering the data. They are allowed to avail this facility till the last date for receipt of application.
8. The information/data furnished by the applicants in the online application are final and cannot be altered later after last date for submission **i.e. 20.12.2022.**
9. Applicants are advised to keep a copy of the application generated online for their reference.
10. Applicants except In-service candidate need not send the printout of the application or any other supporting document to this Department.
11. The applicants who are applying as In-service candidates (feeder cadre) should send the duly signed copy of the online generated applications through their respective Head of Department/Head of Office within the due date and time of 05.45 p.m. on 20.12.2022 to the Deputy Secretary to Govt. (Agriculture), Chief Secretariat, Puducherry. The applicants should also ensure that the Heads of Department/Office have duly signed the "Certificate by the Head of Department/Office" provided in the online generated applications received after the due date and time i.e. 05.45 p.m. on 20.12.2022 will be summarily rejected. Transit delay will not be entertained.
12. Original certificates are required to be produced by the provisionally short-listed candidates after the notification of result of this recruitment at the time of certificate verification.
13. All communications with regard to this recruitment will be published in the website <https://recruitment.py.gov.in> Applicants are advised to access the above website and watch news and dailies regularly for information. They are advised to keep the mobile number given in the online application active for sending SMS connected with this recruitment.
14. After scrutiny, the status of the application will be indicated in the website <https://recruitment.py.gov.in> The applicants are advised to check the official website to know their application status.

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15. The decision of the Government as to the eligibility or otherwise of the applicant for admission to the examination shall be final.

16. This Secretariat will not undertake detailed scrutiny of applications for the eligibility and other aspects at the time of written examination and therefore, candidature will be accepted only provisionally. Candidates must go through the requirements of educational qualification, age, physical and medical standards etc. and satisfy themselves that they are eligible for the post. Copies of supporting documents will be sought at the time of Certificate Verification. When scrutiny is undertaken, if any claim made in the application is not found substantiated, the candidature will be cancelled and the Departmental Recruitment Committee's decision shall be final.

17. Candidates seeking reservation / age relaxation benefits available for SC/OBC/XSM/PwBD must ensure that they are entitled to such reservation / relaxation as per eligibility prescribed in the notification. They should also be in possession of the certificates in the prescribed format in support of their claim.

18. No correspondence will be entertained with regard to the recruitment process. Candidates are advised to verify the status of their application/Hall Ticket through online only.

19. A separate press note will be issued in leading regional news dailies regarding the issue of Hall tickets through online. The eligible applicants can download their Hall tickets from the website <https://recruitment.py.gov.in> by using the "User Name and Password".

20. The admission to the examination is only provisional. Success in the examination confers no right to appointment. The appointment is subject to verification of educational qualification/residence/community and any other special category claimed by the individual including Medical Fitness.

21. Change of address & Mobile Number, if any, after submission of application should invariably be intimated to the Department by registered post with acknowledgement due. Otherwise the Department will not be responsible for any delay/non-delivery of letters/SMS message.

22. No TA/DA will be paid for attending the Competitive Examinations except SC /ST candidates who will be paid TA as per rules.

Help Line :

For any clarification, if needed, please contact the Help line number (0413)-2233246 on all working days between 09:30 a.m. to 05:00 p.m.

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PART-II

(Annexure-II to G.I., Min. of Social Justice and Empowerment, Notification No.38-16/2020-DD.III, dated 4th January, 2021)

Physical requirement for the post of Agricultural Officer (Engineering) for the category of Persons with Benchmark Disability:

Sl.No.	Physical Requirement
1.	Sitting
2.	Standing
3.	Walking
4.	Bending
5.	Manipulation by fingers
6.	Reading & Writing
7.	Seeing
8.	Communication.

Categories of Disabled suitable for the post of Agriculture Officer (Engineering)

Sl.No.	Code	Category of Disability
1.	D	Deaf
2.	HH	Hard of Hearing
3.	OA	One Arm
4.	OL	One Leg
5.	BL	Both Legs
6.	DW	Dwarfism
7.		Multiple disabilities involving 1 to 6 above

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PART-III

REQUIREMENT OF AGE FOR CANDIDATES BELONGING TO VARIOUS CATEGORIES

Sl.No	Category	Candidates must have born	
		Not earlier than	Not later than
1	General/Unreserved	21-12-1992	20-12-2004
2	OBC (MBC/EBC/BCM/BT)	21-12-1989	
3	SC	21-12-1987	
4	Persons with Benchmark disabilities General/Unreserved	21-12-1982	
5	Persons with Benchmark disabilities OBC (MBC/EBC/BCM/BT)	21-12-1979	
6	Persons with Benchmark disabilities - SC	21-12-1977	
7	In-service (Feeder cadre)	21.12.1987	
8	Ex-Servicemen ECO / SSCO	21-12-1987	
9	Disabled Defence service personnel	21-12-1989	
10	Disabled Defence service personnel - SC	21-12.1984	

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PART-IV

SYLLABUS FOR AGRICULTURAL OFFICER (ENGINEERING)

PAPER-I

UNIT-I: SURVEYING AND HYDROLOGY

Surveying - Instruments - Methods of surveying - Computation of area - Triangulation, intersection, traversing, cross staff survey - Plane table survey - Earth work computation - Simpson's trapezoidal rule - Levelling - Definition - Types of benchmarks - Different types of levels - Reduction of leveling data by rise and fall method and height of collimation method - Contouring - Profile surveying - Cross section survey - Use of Minor instruments - Hydrology - Measurement of rainfall, evaporation and infiltration - Estimation of runoff - Factors affecting runoff - Computation of volume of runoff and peak flow - Unit hydrograph - Occurrence of ground water, hydraulics of wells, types of wells and their construction - Well drilling - Techniques for different formations - Well logging - Types of well screen - Design of well screens - Well development - Yield testing.

UNIT-II: SOIL EROSION AND CONSERVATION

Soil erosion - Types - Factors affecting erosion by water and wind - Stages of water erosion - Biological control measures - Biological control measures and their suitability - Contour farming, strip cropping, mixed cropping, intercropping and mulching - Mechanical control measures and their suitability - Design and construction of contour bunds, graded bunds, terraces, contour stone walls, contour trenches, staggered trenches and diversion drain - Gully control structures and check dams - Wind erosion - Types and control - Dry farming techniques for improving crop production - Estimation of soil erosion - Universal Soil Loss Equation.

UNIT-III: WATERSHED DEVELOPMENT AND MANAGEMENT

Watershed - Concept, types and delineation - Land capability classification - Participatory rural appraisal technique - Watershed development plan - Estimation of cost and benefits - Gully and ravine reclamation - In-situ & Ex-situ water harvesting, micro catchments - Ground water recharge - Farm pond and percolation pond - Selection of suitable soil and water conservation practices - Afforestation - Holistic planning - Watershed based rural development - Use of aerial photography and remote sensing in watershed management - Applications of GIS in planning and development of watersheds including forest cover and water resources.

UNIT-IV: IRRIGATION AND DRAINAGE

Irrigation - Sources - Soil-water-Plant relationship - Water requirement of crops - Measurement of irrigation water - Weirs and flumes - Methods of irrigation - Surface, sprinkler and drip irrigation - Drip irrigation - Components - Wetting pattern - Filters and Fertigation tanks - Design of laterals - Submain - Main lines - Pump capacity -

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Operation and maintenance - Sprinkler irrigation - Components - Sprinkler performance - Hydraulic design of sprinkler systems - Duty and delta relationship - Irrigation scheduling - Irrigation efficiencies and their estimation - Pumps - Types, selection and installation - Drainage - Causes of water logging and salt problem - Methods of drainage - Design of surface, sub-surface and vertical drainage systems - Improvement and utilization of poor quality water - Reclamation of saline and alkali soils.

UNIT-V: FARM AND IRRIGATION STRUCTURES

Design and construction of farm structures - Site selection - Materials of construction - Quality- types of masonry - Foundation, basement and superstructure - Types of roofs building plan and estimation, requirements of farm house, threshing floor, drying floor, poultry house, dairy farm, rat proof godown and farm roads - Design features earthen dams and gravity dams - Water conveyance structures - Earthen channels and lined channels - Advantages of lining - materials of lining - Design of channel cross section Crossing control structures - Drop spillway, chute spillway, pipe inlet spill way - Road crossing structures - Culvert, inverted siphon aqueduct - Their uses - Underground pipe line system - Components and their functions - Structures for plant environment - Green houses, polyhouses and shadenets - Construction and utilization - Soil less culture.

UNIT-VI: FARM POWER

Agricultural mechanization - Scope and sources of farm power - Animate and electromechanical - Thermodynamics - Construction and working of internal combustion engines - Fuel, ignition, lubrication, cooling, air intake, exhaust, governing and electrical systems of IC engines - Different types of tractors and power tillers - Power transmission, ground drive, power takeoff, steering, brake, implement control and hydraulic systems - Bulldozer - Features, traction, suspension, steering, operations using bulldozer - Weight transfer, theory of traction - Tractive efficiency - Mechanics and stability - Care and maintenance of tractors.

UNIT- VII: FARM MACHINERY

Farm machinery - Primary tillage implements - Mould board plough, disc plough and chisel plough - Secondary tillage implements - Cultivators, harrows and rotary tillers - Land shaping machinery - Leveller, ridger and bund former - Sowing and transplanting Seed drills, planters and rice transplanters - Interculture implements - Plant protection equipment - Sprayers and dusters - Harvesting, threshing and combining equipment - Machinery for earth moving and land development - Machinery for horticulture, agro-forestry and forages - Haulage of agricultural and forest produces - Management of farm machinery - Cost estimation for farm operations.

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UNIT-VIII: UNIT OPERATIONS IN FOOD AND AGRICULTURAL PROCESSING


Heat transfer principles – Conduction, convection and radiation - Types of heat exchangers - Unit operations – Evaporators - Types - Mechanical separation – Filtration Sedimentation – Settling – Centrifugal separation – Cyclone separation - Size reduction – Mixing – Blending – emulsification - Food processing operations - Pasteurization – Sterilization – Canning - Retort processing - Extrusion processing of foods - Methods of drying of foods – Preservation of food by irradiation - Microwave and dielectric heating - Fats and oil processing – Extraction methods and equipments - Food packaging – Materials and characteristics – Suitability - Processing of milk and milk products, packaging of milk - Principles of refrigeration and applications in food industries – Cold storage of fruits and vegetables - Design aspects.

UNIT- IX: PROCESS ENGINEERING OF AGRICULTURAL AND HORTICULTURAL CROPS

Engineering properties of food materials – Moisture content – Methods of determination Psychrometry - Drying - Thin layer and deep bed drying – Types of heat sources and types of dryers - Cleaning and grading – Principles – Separators – Efficiency – Performance index - Shelling and decortication - Seed processing and layout of seed processing units - Rice processing – Parboiling and dehusking of paddy – Machines used - Milling of wheat, corn and pulses - Material handling equipments - Conveyors and elevators - Storage – Conditions for safe storage – Bag and bulk storage – Silo storage - Design aspects - Modified atmosphere storage – Storage structures - Equipments used for processing of horticultural crops – Preservation of fresh fruits and vegetables – Drying and dehydration – Processing of coffee, tea, rubber, cashew nut, coconut, oil palm, aromatic plants, flowers and spices.

UNIT-X: RENEWABLE AND BIOENERGY

Solar energy – Solar collectors – Air heaters – Water heaters – Solar photovoltaic systems and applications - Wind energy - Suitable sites – Types of wind mills – Wind mill components – Applications – Performance of wind mills - Biomass resources – Agro residues – Characteristics - Conversion technologies – Biochemical conversion – Biogas plant - Types and selection, construction, operation and maintenance - Slurry handling - Thermochemical conversion – Stoves – Types - Improved stoves – Pyrolysis Charcoal production – Gasification – Briquetting – Cogeneration - Energy plantation and environmental impact – Global warming – Clean development mechanism (CDM) and role of afforestation - Biofuels – Biodiesel feedstock, production and by-product utilization – Ethanol – Production and utilization – Emission - Standards and control.


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